



The City of Santa Clara

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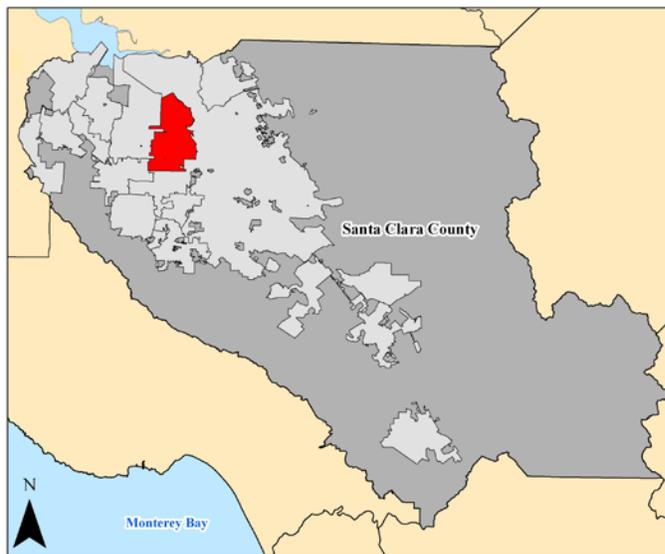
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SECTION 20 CITY OF SANTA CLARA

20.1 INTRODUCTION

This City of Santa Clara Annex serves as an annex to the Santa Clara County Local Hazard Mitigation Plan which is an annex to the 2010 Association of Bay Area Local Hazard Mitigation Plan, Taming Natural Disasters. Pursuant to the Disaster Mitigation Act of 2000, the City Council adopted this annex on February 28, 2012.

This annex is an update to the City's annex to the 2005 Association of Bay Area Local Hazard Mitigation Plan, Taming Natural Disasters, as adopted on April 12, 2005.



The City of Santa Clara California is located in the heart of Silicon Valley at the south end of San Francisco Bay. At 19.3 square miles in size, three Interstate Freeways border Santa Clara, three expressways transverse the city, and two major railroad lines bisect the city. Santa Clara is host to major electronics companies and the home to many silicon chip manufacturers.

The City of Santa Clara is uniquely located at the South end of San Francisco Bay between the San Andreas and Hayward earthquake faults. The Loma Prieta Earthquake of 1989

was the last significant seismic event that played havoc in the City, which lasted several days. A light rail system crosses the Northern portion of the City and Santa Clara is in the takeoff and landing pattern for San Jose International Airport. As of the 2000 Census, there were 102,361 people, 38,526 households, and 24,117 families residing in the City. Last year, the City's budget was \$567,400,000. The City employs 1,800 people.

Santa Clara is home to the headquarters of Intel, Applied Materials, Sun Microsystems, NVIDIA, Agilent Technologies, and many other high-tech companies. It is also home to both Mission College and Santa Clara University, the latter being the oldest institution of higher learning in the State of California. Santa Clara is also home to Great America, an amusement park operated by Cedar Fair, L.P. The San Francisco 49ers NFL football team has its headquarters and practice facilities in Santa Clara.



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City Services

Santa Clara owns and operates its own electric utility called Silicon Valley Power. In 2005, Silicon Valley Power brought online the Donald Von Raesfeld (DVR) Power Plant. The new combined-cycle gas turbine plant produces 147 megawatts of electricity for the City and its residents. As a result, the going rate for electricity in Santa Clara is considerably cheaper than that offered by Northern California's dominant utility, Pacific Gas and Electric. The City also provides police and fire services, water services and sewage collection throughout the jurisdiction.



The City of Santa Clara

RESOLUTION NO. 7215

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANTA CLARA, CALIFORNIA, APPROVING THE ABAG REPORT "TAMING NATURAL DISASTERS" AS THE CITY OF SANTA CLARA'S LOCAL HAZARD MITIGATION PLAN

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANTA CLARA, CALIFORNIA, AS FOLLOWS:

WHEREAS, the Bay Area is subject to various earthquake-related hazards such as ground shaking, liquefaction, landsliding, fault surface rupture, and tsunamis; and

WHEREAS, the Bay Area is subject to various weather-related hazards including wildfires, floods, and landslides; and

WHEREAS, the City of Santa Clara recognizes that disasters do not recognize city, county, or special district boundaries; and

WHEREAS, the City of Santa Clara seeks to maintain and enhance both a disaster-resistant City of Santa Clara and region by reducing the potential loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters; and

WHEREAS, the City of Santa Clara is committed to increasing the disaster resistance of the infrastructure, health, housing, economy, government services, education, environment, and land use systems in the City of Santa Clara, as well as in the Bay Area as a whole; and

WHEREAS, the federal Disaster Mitigation Act of 2000 requires all cities, counties, and special districts to have adopted a Local Hazard Mitigation Plan to receive disaster mitigation funding from FEMA; and



The City of Santa Clara

WHEREAS, ABAG has approved and adopted the ABAG report *Taming Natural Disasters* as the multi-jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area;

NOW THEREFORE, BE IT FURTHER RESOLVED BY THE CITY COUNCIL OF THE CITY OF SANTA CLARA, CALIFORNIA, AS FOLLOWS:

1. That the City of Santa Clara adopts, and adapts with its local annex, this multi-jurisdictional plan as its Local Hazard Mitigation Plan.
2. That the City of Santa Clara commits to continuing to take those actions and initiating further actions, as appropriate, as identified in the City of Santa Clara Annex of that multi-jurisdictional Local Hazard Mitigation Plan.
3. That the City Manager, or designee, is authorized to execute the necessary documents to implement the City of Santa Clara's eligibility and participation in the Local Hazard Mitigation Plan.

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The City of Santa Clara

4. Constitutionality, severability. If any section, subsection, sentence, clause, phrase, or word of this resolution is for any reason held by a court of competent jurisdiction to be unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of the resolution. The City Council of the City of Santa Clara hereby declares that it would have passed this resolution and each section, subsection, sentence, clause, phrase, and word thereof, irrespective of the fact that any one or more section(s), subsection(s), sentence(s), clause(s), phrase(s), or word(s) be declared invalid.

HEREBY CERTIFY THE FOREGOING TO BE A TRUE COPY OF A RESOLUTION PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF SANTA CLARA, CALIFORNIA, AT A REGULAR MEETING THEREOF HELD ON THE 12th DAY OF APRIL, 2005, BY THE FOLLOWING VOTE:

AYES:	COUNCILORS:	Caserta, Kennedy, Kolstad, Matthews, McLeod, Moore and Mayor Mahan
NOES:	COUNCILORS:	None
ABSENT:	COUNCILORS:	None
ABSTAINED:	COUNCILORS:	None

ATTEST: _____


ROD DIRIDON, JR.
CITY CLERK
CITY OF SANTA CLARA



The City of Santa Clara

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The City of Santa Clara

RESOLUTION NO. 12-7911

A RESOLUTION OF THE CITY OF SANTA CLARA, CALIFORNIA, APPROVING THE ASSOCIATION OF BAY AREA GOVERNMENTS REPORT "TAMING NATURAL DISASTERS" AS THE CITY OF SANTA CLARA'S LOCAL HAZARD MITIGATION PLAN

BE IT RESOLVED BY THE CITY OF SANTA CLARA AS FOLLOWS:

WHEREAS, the Bay Area is subject to various earthquake-related hazards such as ground shaking, liquefaction, landsliding, fault surface rupture, and tsunamis;

WHEREAS, the Bay Area is subject to various weather-related hazards including wildfires, floods, and landslides;

WHEREAS, the City of Santa Clara recognizes that disasters do not recognize city, county, or special district boundaries;

WHEREAS, the City of Santa Clara seeks to maintain and enhance both a disaster-resistant City of Santa Clara and region by reducing the potential loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters;

WHEREAS, the City of Santa Clara is committed to increasing the disaster resistance of the infrastructure, health, housing, economy, government services, education, environment, and land use systems in the City of Santa Clara, as well as in the Bay Area as a whole;

WHEREAS, the Federal Disaster Mitigation Act of 2000 requires all cities, counties, and special districts to have adopted a Local Hazard Mitigation Plan to receive disaster mitigation funding from FEMA; and,

WHEREAS, the ABAG has approved and adopted the ABAG report *Taming Natural Disasters* as the multi-jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area.



The City of Santa Clara

NOW THEREFORE, BE IT FURTHER RESOLVED BY THE CITY OF SANTA CLARA

AS FOLLOWS:

1. That the City of Santa Clara adopts, and adapts with its local annex, this multi-jurisdictional plan as its Local Hazard Mitigation Plan.
2. That the City of Santa Clara commits to continuing to take those actions and initiating further actions, as appropriate, as identified in the City of Santa Clara Annex of that multi-jurisdictional Local Hazard Mitigation Plan.
3. That the City Manager, or designee, is authorized to execute the necessary documents to implement the City of Santa Clara's eligibility and participation in the Local Hazard Mitigation Plan.

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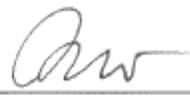
The City of Santa Clara

4. Constitutionality, severability. If any section, subsection, sentence, clause, phrase, or word of this resolution is for any reason held by a court of competent jurisdiction to be unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of the resolution. The City of Santa Clara, California, hereby declares that it would have passed this resolution and each section, subsection, sentence, clause, phrase, and word thereof, irrespective of the fact that any one or more section(s), subsection(s), sentence(s), clause(s), phrase(s), or word(s) be declared invalid.

5. Effective date. This resolution shall become effective immediately.

I HEREBY CERTIFY THE FOREGOING TO BE A TRUE COPY OF A RESOLUTION PASSED AND ADOPTED BY THE CITY OF SANTA CLARA, CALIFORNIA, AT A REGULAR MEETING THEREOF HELD ON THE 28th DAY OF FEBRUARY, 2012, BY THE FOLLOWING VOTE:

AYES:	COUNCILORS:	Kennedy, Kolstad, Mahan, McLeod and Moore and Vice-Mayor Gillmor
NOES:	COUNCILORS:	None
ABSENT:	COUNCILORS:	Mayor Matthews
ABSTAINED:	COUNCILORS:	None

ATTEST: 

 ROD DIRIDON, JR.
 CITY CLERK
 CITY OF SANTA CLARA

Attachments Incorporated by Reference:
None



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20.2 INTERNAL PLANNING PROCESS

Regional Planning Process

The City of Santa Clara originally participated in the Association of Bay Area Government (ABAG) workshops in 2005 which developed the original Regional Plan. The Santa Clara City Council formally approved that plan in April 2005.

During preparation of this five year update, City staff attended the initial kickoff meeting and attended two subsequent workshops to review the strategies matrix developed by ABAG staff. The City proposed no changes to the list of critical facilities in Santa Clara.

The City of Santa Clara participated in various ABAG workshops, conferences, meetings, and met commitments including:

- Commitment Letter on file with ABAG on May 21, 2009
- Provided Critical Facilities Data on June 24, 2009
- Provided comment on chapters to review draft priorities and reach consensus on priorities for mitigation;
- Attended four County/City Workshops
- Led a facilitated discussion with other cities in the county on flood mitigation planning and solutions on November 18, 2010
- Polled city's residents on their disaster preparedness efforts

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

Local Planning Process

Gene Sawyer, Emergency Services Coordinator, served as the City's representative and lead for completing this Annex. He represented the City in the local planning process coordinated by Santa Clara County OES, as noted in Section 3 of this plan, and personally participated in Local Planning Team meetings #2 and #3. Gene performed internal reviews and collaboration in order to provide all of the required information for development of this annex.

Contact information: gsawyer@santaclaraca.gov, 408.615.4954

Key City staff met on two occasions in August and September 2009 to identify and prioritize mitigation strategies appropriate for the City. At the first meeting, the City's appropriate policies and programs to be included in this plan and appropriate City departments were identified. The



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areas of focus are infrastructure, health care, housing, economy, government, schools and education, environment and land use. The second meeting identified preliminary budgets and potential funding sources for strategies designed as “High” priority for City owned facilities.

Staff involved in these meetings included the Planning Director, Building Official, Senior City Engineer, Public Works Director, Assistant Police Chief, and the Office of Emergency Services Coordinator. The City provided the opportunity for the public to comment on the draft mitigation strategies selected by City staff at the City Planning Commission meeting and via the City’s Website, as indicated later in this Annex.

The City of Santa Clara’s internal planning team included the following individuals:

- Gene Sawyer, Office of Emergency Services Coordinator
- Kevin Riley, Director of Planning and Inspection
- Carol Ann Painter, City Planner
- Doug Handerson, Associate Planner
- Jeff Pederson, Division Manager, Housing & Community Services
- Sheila Lee, Building Official
- Alan Kurotori, Director of Water & Sewer Utilities
- Rajeev Batra, Director of Public Works
- Gustavo Gomez, Principal Engineer
- John Roukema, Director of Electric Utility
- Rick Mauck, Director of Street and Automotive Services
- Kevin Kyle, Assistant Police Chief

Public Outreach

Opportunity for public comments on the draft mitigation strategies was provided at a public meeting at the City of Santa Clara Planning Commission on September 3, 2009 and advertised on the City of Santa Clara website beginning on September 21, 2009. The draft mitigation strategies were also published on the ABAG website for public viewing. No public comments were received from either the meeting or the internet posting. Copies of the internet posting and the Planning Meeting notice are included in the City of Santa Clara Attachment 1: Outreach Materials.

The public were also provided an opportunity to respond to the online survey discussed in Section 3.2.6 in the County Annex. A copy of the survey is County Attachment 7: Survey Outreach Materials, found in Section 9.7.

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 Health and Safety Element of the City of Santa Clara General Plan.



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Survey Results

On November 1, 2010, the Local Planning Team released an online survey to solicit public input regarding concerns for hazard risk. The Local Planning Team also used this survey to gauge the level of public preparedness for emergencies. The survey responses received from the City of Santa Clara residents are summarized below:

1. 24 out of 541 survey respondents were from the City of Santa Clara.
2. Respondents were asked which five hazards, out of the 31 hazards the LPT identified, are of most concern to their neighborhood or home. Below are responses from the City of Santa Clara (in order of most responses):

Table 20-1: Hazards of Most Concern

Hazard	Number of Responses
Infrastructure: Water System Disruption (no potable water)	16
Earthquake: Ground Shaking	14
Infrastructure: Electrical System Disruption (no power)	13
Infrastructure: Wastewater System Disruption (sewer backup)	9
Infrastructure: Telecommunication System Disruption (no phone / cell service)	9
Disease and Outbreak	7
Drought	6
Hazardous Materials Spills (chemical/biological)	6
Earthquake: Surface Rupture	5
Infrastructure: Energy System Disruption (no gas)	5
Infrastructure: Transportation Disruption (blocked roads / failed bridges)	4
Agricultural Pests and Diseases	3
Bay Area Silting	2
Flood	2
Wind (high winds)	2
Dam Failure	1
Delta Levee Failure	1
Earthquake: Liquefaction	1
Expansive Soils	1
Heat (extreme heat)	1
Land Subsidence (soil compaction due to subsurface water removal)	1
Tsunami	1



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Hazard	Number of Responses
Wildfire	1
Additional Hazard	0
Earthquake: Landslides	0
Freeze	0
Hailstorm	0
Landslide and Debris flow	0
Solar Storm	0
Thunder/Lightning Storms	0
Tornado	0
Volcano	0

3. Respondents were asked if a severe hazard event occurred today, such that all services were cut off from their home and they were unable to leave or access a store for 72 hours, which items they would have readily available. Below is a summary of responses from the City of Santa Clara respondents:

Table 20-2: Items Readily Available to Respondents

Item that is Readily Available	Responses
Flashlight (with batteries)	19
Canned/Non-perishable Foods (ready to eat)	18
Blanket(s)	18
First Aid Kit	16
Portable AM/FM Radio (solar powered, hand crank, or batteries)	12
Cash	11
Potable Water (3 gallons per person)	10
Extra Medications	8
Handheld "Walkie-Talkie" Radios (with batteries)	7
What else is in your emergency kit? *	6
Important Family Photos/Documentation in a water and fire proof container	3

* Respondents noted the following additional items in their emergency kits: tools, extra batteries, bleach, soap, flares, tarps, candles, pet food, gloves, extra clothes, dust masks, personal care kit, tent, and sleeping bags



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4. Respondents were asked if they were familiar with the special needs of their neighbors in the event of a disaster situation.

- 23, or **95.8%** of respondents, answered that they **are not** familiar with the special needs of their neighbors.
- 1, or **4.2%** of respondents, answered that they **are** familiar with the special needs of their neighbors.

5. Respondents were asked if they are trained members of their Community Emergency Response Team (CERT).

- 3, or **12.5%** of respondents, indicated that they **are part of CERT**.
- 7, or **29.2%** of respondents, indicated that they are not part of CERT, but **would like to learn more about CERT**.
- 14, or **58.3%** of respondents, indicated that they are not part of CERT and **are not interested** in being a trained CERT member.

Respondents were asked to share why they are a trained CERT member, or why they are not part of CERT. The received responses are listed below:

- Time to attend the training has not yet been convenient.

6. Respondents were asked what is the most important thing local government can do to help communities be more prepared for a disaster. The following summarizes the 15 responses received:

- **Disaster preparedness awareness**
- **Well stocked shelters**
- **Emergency communication**
- **Emergency preparedness outreach-through commercials, newspaper advertisements**
- **Citizen/City training**

7. Respondents were asked if they live in an apartment building or home with a living space above a garage or parking area.

- 20 or **83.3%** of respondents indicated that they **do not** live in an apartment or home with living space above a garage or parking area.
- 4, or **16.7%** of respondents, indicated that they **do** live in an apartment building or home with living space above a garage or parking area.

Those respondents who indicated that they do live in an apartment building or home with living space above the garage or parking area were asked to describe their level of concern for the building to collapse in a large earthquake event. 1 respondent indicated that they have “High Concern”, while another respondent indicated that they have “Little Concern”.



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8. Respondents who are homeowners were asked if they have adequate homeowners insurance to cover the hazards that could impact their home. Below is a summary of responses:

Table 20-3: Adequate Homeowners Insurance

Answer	Responses
Yes, my insurance coverage should be adequate	13
No, I don't believe my insurance coverage would be adequate for a major disaster	1
Unsure	1
I do not have an insurance policy	0
Not applicable, I rent my current residence	9

9. Respondents were asked if they have earthquake insurance. Below is a summary of responses:

Table 20-4: Earthquake Insurance

Answer	Responses
Yes, I own my home and have earthquake insurance.	5
Yes, I rent my home and have earthquake insurance.	3
No, but I am interested in reviewing earthquake insurance options.	3
No, earthquake insurance is too expensive.	9
No, I do not need earthquake insurance.	4

10. Respondents were asked if they have flood insurance. Below is a summary of responses:

Table 20-5: Flood Insurance

Answer	Responses
Yes, I own my home and have flood insurance.	4
Yes, I rent my home and have flood insurance.	1
No, but I am interested in reviewing flood insurance options.	2
No, I do not need flood insurance	17

11. Respondents indicated the following as additional insurance listed for their home or property:

- **Fire**
- **Personal Property**



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- Renter's
- Umbrella

12. Respondents were asked what they are doing to their property or within their home to reduce future damage from the hazards identified above. Below is a summary of responses:

Table 20-6: Property Changes to Reduce Future Damage from Hazards

Property Mitigation	Responses
Roof retrofit using fire resistant material	5
Strengthened Openings (to reduce high hazard wind risk)	3
Seismic retrofit of the structure and/or foundation	2
Defensible space landscaping(clear vegetation around house to reduce wildfire risk)	2
House elevation or first floor modification to prevent flood damage	1
Installed backflow prevention devices	0
Other	0

13. Respondents were asked if they work in Santa Clara County.

- All of the respondents indicated that they **do** work in Santa Clara County.
- None of the respondents indicated that they **do not** work in Santa Clara County.

14. Respondents were asked if their place of work is in an area susceptible to natural hazards. Below is a list of natural hazards and responses from survey respondents:

Table 20-7: Place of Work in Hazard Areas

Natural Hazard	Response
Earthquake fault zone	12
I don't know	11
High-risk flood zone	5
Wildland Urban Interface (wildfire risk area)	2
Liquefaction zone	2
Other *	1
Landslide Risk Area	1

*The response to "Other" was: PGE gas leak

15. Respondents were asked if their employer has a plan for disaster recovery in place.

- 15, or **62.5%** of respondents, **indicated that their employer does have a disaster recovery plan in place.**



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- 1, or 4.2% of respondents, **indicated that their employer does not have a disaster recovery plan in place.**
- 8 respondents indicated that they are **unsure** if their employer has a disaster recovery plan in place.

16. Respondents were asked if their employer has a workforce communications plan to implement following a disaster so they may contact their employees.

- 16, or **66.7%** of respondents indicated that their **employer does** have a workforce communications plan.
- None of the respondents indicated that their **employer does not** have a workforce communications plan.
- 8, or **33.3%** of respondents indicated that they are **unsure** if their employer has a workforce communications plan.

17. Respondents were asked to list any studies that they are aware of being conducted within their community or the county regarding the risk to future hazard events. There were no responses to this question.

18. Respondents were asked what recommendations they have for Santa Clara County and the incorporated cities to improve identification, prioritization, and implementation of actions intended to reduce future damage and increase resiliency. The following recommendations were received:

- County and Cities should publish and mail to each residence a map showing flood zones, earthquake faults, earthquake liquefaction areas, etc.

19. Respondents were asked to recommend any companies or local associations that should be involved in the Santa Clara County hazard mitigation planning process. There were no contacts provided by respondents.

20. Respondents were asked if they would like to review and comment on a draft of their jurisdictions annex to the Multi-Jurisdictional Multi-Hazard Mitigation Plan.

- 1, or **5%** of respondents **said they would** like to review and comment on the draft plan.
- 19, or **95%** of respondents **said they would not** like to review and comment on the plan draft.
- 4 respondents skipped this question.

One respondent who said they would like to review and comment on the draft plan included their contact information and were given the opportunity to review the draft plan as noted in the following section.



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21. Respondents were asked to provide any additional comments/suggestions/questions. The responses are summarized below:

- Send mailings or emails with disaster preparedness tips and emergency warnings would be helpful
- Most citizens believe their local cities and/or the Federal government will provide emergency services (water, food, porta potties, tents, blankets, medical aid, etc) within a reasonable amount of time (within 48 hours). If this is not accurate, it should be made known to the general public.

Review Opportunities

A review draft of this plan was submitted to Cal EMA on April 8, 2011 and subsequently forwarded to FEMA for review and comment regarding compliance with the Disaster Mitigation Act of 2000. During this time the review draft was available for public review on the websites of the Santa Clara County Office of Emergency Services and the Association of Bay Area Governments. Additionally, the review draft was emailed to the following key stakeholders for review:

- Santa Clara University
- Owens Corning Fiberglass
- Santa Clara Chamber of Commerce
- Bill Wilson House

No comments were received on the review draft.

Copies of the email notifications are included in the City of Santa Clara Attachment 1: Outreach Materials.

20.3 CAPABILITY ASSESSMENT

20.3.1 Mitigation Progress

20.3.1.1 Strategy Ranking

As a participant in the 2010 ABAG multi-jurisdictional planning process, the staff of several City of Santa Clara departments helped in the development and review of the comprehensive list of mitigation strategies in Section 7 County Mitigation Strategy. 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.

Representatives from multiple departments then met on a regular basis to review progress on the jurisdiction's 2005 strategies, to identify and prioritize additional mitigation strategies to



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update the list using the spreadsheet template provided by ABAG. ***The City of Santa Clara's primary objective is to upgrade the City's storm water pump stations.***

The City's draft priorities were submitted to all of the City departments' participants for review. The priorities will be provided to the City Council as part of this plan for adoption pending approval of by FEMA.

The City ranked the strategies in the spreadsheet provided by ABAG using the following scale:

- 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

Results of this ranking may be viewed online at <http://www.abag.ca.gov/bayarea/egmaps/mitigation/strategy.html>. A summary of these rankings is presented in the City of Santa Clara Attachment 2: Santa Clara City Strategies 2010, in Section 20.7. Appendix G of Taming Natural Hazards presents a summary list of mitigation strategies with regional priorities and the hazards mitigated.

20.3.1.2 Completed projects

In 2005, mitigation actions and priorities were identified. Much progress has been made with many of the identified programs ongoing. For a summary of ongoing programs, please refer to Section 20.3.1.3, Current Projects.

The City of Santa Clara has been working with the Santa Clara Valley Water District in discussion of the state of the river levee systems that pass through the city boundaries in association with the pump station and localized flooding prevention preparedness.

These actions are being carried out jointly by the City's Public Works Department, the Water and Sewer Department, the Street and Storm Drain Department, and the Automotive Services Department

The City is particularly concerned with performance of critical infrastructure, such as water storage tanks, in future earthquakes. During the 1989 Loma Prieta Earthquake, three of the six City's at grade water storage tanks were damaged. In 2005, the City determined that the combination of construction type, age, and shaking exposure to six ground-level water storage tanks (of 4 to 4.7 million gallons each) is significant. Therefore, the City applied for a Pre-



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Disaster Mitigation grant to retrofit these facilities for seismic reliability. The City has been able to successfully seismically retrofit the ground water storage tanks with grant funded pre-mitigation dollars.

The at grade water tank mitigation measures that were implemented included strengthening tank foundations and anchoring the tanks to the upgraded foundations. In addition, flexible pipeline fittings (flectends) were installed on inlet/outlet piping to allow for differential movement between the tank and pipelines.

The City has also completed installation of several back-up power supply engine-generators at water supply facilities and storm pumping stations over the past 20 years.

20.3.1.3 Current projects

The City of Santa Clara has evaluated the city operated storm water pump stations. The City operates a system of 21 stations. The location of each pump station and the drainage areas of those discharging to creeks and rivers are of concern as localized flooding may occur if the pump stations fail. Pump stations are generally located in the northern half of the City, where stormwater must be pumped over or through the levees into the Lower Guadalupe River, San Tomas Aquino Creek and Calabazas Creek. Of the 21 stations, nine are internal lift stations that drain basements or underpasses into the stormwater collection system. The City is a member of the Santa Clara Valley Urban Runoff Pollution Prevention Program, and operates its stormwater collection system under the San Francisco Bay Municipal Regional Stormwater Permit, National Pollutant Discharge Elimination System (NPDES) No. CAS612008. The pump stations range from nine to 47 years in age. The equipment at many of these stations is nearing the end of its service life, and it may become necessary to replace equipment or even entire pump stations within the next few years. This can be a costly task which requires financial planning. The City is in hopes of requesting pre-disaster mitigation grant funding as a possible solution for upgrades and equipment replacement for the aging infrastructure during these difficult economic times.

The City of Santa Clara Water Department performs design and construction of water main replacements throughout the City. This work replaces obsolete and aged distribution mains within the City with new pipelines that meet American Water Works Association standards.

The water department is continuing with the water main replacement program which is designed to replace aging infrastructure. The replacement pipelines are being constructed using ductile materials and fully restrained joints which, in combination, result in a more seismically resistant system.



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20.3.1.4 Future Mitigation Actions and Priorities

The City planning team is prioritizing specific mitigation tasks for action over the next 5 years. New mitigation actions the City of Santa Clara has identified are discussed in Section 20.5.

20.3.2 Staff and Organizational Capabilities

20.3.2.1 Departmental Responsibilities

The City of Santa Clara operates several departments with capabilities for implementing hazard mitigation strategies. These departments and their roles and responsibilities are summarized in the following table.

Table 20-8: Key Departments in the City of Santa Clara

Key Departments in the City of Santa Clara
Departments
<ul style="list-style-type: none"> <p>• City Manager</p> <p>The City Manager's Office has direct responsibility for the administration and supervision of the City's emergency services operation.</p> <p>• Fire Department</p> <p>It is the mission of the Santa Clara Fire Department to protect all citizens within the City of Santa Clara from injury and loss due to natural and man-made disasters. This is accomplished by providing highly trained and equipped emergency personnel to respond to incidents of fire, chemical release, medical emergency, and earthquake, flood, or other natural disasters, within three minutes after notification.</p> <ul style="list-style-type: none"> <p>○ Fire Prevention Division</p> <p>The Fire Prevention Division is primarily responsible for fire safety education, fire cause determination, inspection of high hazard occupancies, and fire code enforcement. This division also provides a plan checking service that assures the incorporation of proper life safety standards, as well as code compliance, in all new construction in the city. Fire Prevention supervises and coordinates some 9,900 Fire and Life Safety Inspections annually. Under this program, all commercial occupancies are inspected at least once a year and residential occupancies are inspected upon request. Over 4,100 code violations in the community are corrected annually as a direct result of this program.</p> <p>Hazardous Materials Division</p> <p>The City of Santa Clara is one of the few cities in the United States to have chemists on staff in the Fire Department to monitor the safe storage, handling and use of chemicals and respond to fires and releases involving hazardous materials.</p> <p>The Hazardous Materials Division maintains a vital role as technical consultant to the Fire Department, the City, and the business community, advising on site construction, process installation, and the safe storage, handling, and use of hazardous materials as outlined in Federal, State, and local regulations. The Hazardous Materials Specialists perform critical staff support at the scene of serious</p>



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chemical release incidents each year. In addition, they conduct training for Department members in hazardous materials equipment and mitigation techniques. Fire Department personnel receive an average of 20 hours each of hazardous materials training in such subject areas as safety hazard mitigation, incident management, hazardous assessment, and legal obligations.

The Santa Clara Fire Department Hazardous Materials Division provides a number of services to the citizens and businesses of Santa Clara, including:

- Consulting with businesses on how to safely store, handle, and use hazardous materials
- Responding to hazardous materials emergencies
- Training emergency response personnel in hazardous materials incident response
- Conducting inspections of facilities where hazardous materials and wastes are used and/or stored
- Reviewing construction plans for facilities building or modifying hazardous materials facilities
- Looking for causes of exposures to or releases of hazardous materials
- Investigating environmental crimes as part of their peace officer duties
- Implementing the Certified Unified Program Agency (CUPA) program in the City of Santa Clara

Codes and Ordinances

Santa Clara Fire Department Hazardous Materials Division personnel participated with industry and environmental group personnel in writing the first Hazardous Materials Handling and Storage Ordinance (1983) and Toxic Gas Model Ordinance (1989). Following the successful Santa Clara County-wide implementation of the Model Ordinances, they became active in fire code formation. Thanks, in part, to their efforts, the two Model Ordinances became the basis for Articles 80 & 51 of the Uniform Fire Code and subsequently Chapters 27-44 of the International Fire Code. The International Fire Code is adopted or in use in 43 states and the District of Columbia.

Programs

The Santa Clara Fire Department Hazardous Materials Division is the Certified Unified Program Agency (CUPA) for the City of Santa Clara. As a CUPA, the Hazardous Materials Division is responsible for implementing the following hazard mitigation/environmental programs:

[Above Ground Storage Tanks](#)

[California Accidental Release Prevention Program \(CalARP\)](#)

[Hazardous Materials Management Plans/Business Plans](#)

[Hazardous Waste Generator](#)

[On Site Treatment of Hazardous Wastes](#)

[Underground Storage Tanks](#)



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Hazard Mitigation Impact

Prior to implementation of both Model Ordinances, Hazardous Materials Division personnel responded to hazardous materials incidents over 90 times a year in the City of Santa Clara. Subsequent to implementation of the Ordinances, hazardous materials responses trended downward. In five of the last six years, Hazardous Materials Division personnel responded to less than 30 incidents per year – a mitigation of 66.7%

Another example of chemical hazard mitigation by the two Model Ordinances was evident during and after the October 1989 Loma Prieta earthquake. A section of the San Francisco Bay Bridge fell into the Bay. Apartment houses collapsed in San Francisco. In Santa Clara County, residents Last updated: 8/24/2009 10:33:55 AM looked out their front windows and saw a wave of water rising above the rooftop of their neighbor's home across the street and emanating from their back yard swimming pool. With all this earth movement, the Santa Clara Fire Department responded to and abated only a few minor hazardous materials releases. A few months following the earthquake, the Hazardous Materials Administrator received a phone call from US EPA Region 9 in San Francisco. They wanted to know why the Fire Department had not called them for hazardous materials mutual aid following the earthquake. Did we not know they had crews ready to respond to Silicon Valley? Did we not have their phone number? The Hazardous Materials Administrator assured them that their phone number was available, but explained that there had been no need for hazardous materials mutual aid. Requirements of the Model Ordinances such as secondary containment and monitoring of hazardous materials kept most hazardous materials from causing harm. The US EPA person requested and participated in a meeting with the Hazardous Materials Administrator and Fire Chief in the Chief's office to learn more about the Hazardous Materials Ordinances and their mitigating impact during the earthquake.

- Suppression Division

With 10 fire stations located strategically throughout the 19.2 square miles of the City of Santa Clara, and its own paramedic services, City emergency personnel respond within three minutes after notification for medical or fire emergencies. Firefighter paramedics are assigned to three fire department ambulances in addition to being assigned to three of eight engine companies. Santa Clara is one of only two fire departments in the County that is capable of providing emergency backup coverage to the County's private ambulance contractor.

The Suppression Division, using the Incident Command System, efficiently manages over 7,000 emergency responses annually. The full time emergency staff is supplemented by an active Volunteer/Reserve force, which responds to over 2,750 emergency incidents and contributes more than 7,900 hours of community service each year.

This division also provides related non-emergency services that reduce property damage and interruption of business, such as water evacuation from buildings suffering damaged internal water systems. Voter registration forms are available at each station as a free service to our citizens.



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• **Planning and Inspection Department**

The mission of the Planning and Inspection Department is to plan for, and review, the development and maintenance of the privately owned, physical environment of the City. In an effort to be more responsive to the needs of Santa Clara residents, the Planning and Building Inspection Department has implemented the Smart Permit software created by Tidemark Systems. The Smart Permit Information system offers a convenient method of searching permits online, obtaining parcel information and reviewing past and current development applications and their status. In addition, the Permit Center is a “one-stop shop” that caters to various permitting requirements for the City.

○ Planning Division

The Planning Division administers land use regulations and process development proposals in the City of Santa Clara as well as shapes public policies related to growth and land uses in the City. The Planning Division strives to maintain a healthy balance between development and quality of life by providing the residents of Santa Clara choices in housing and transportation, protecting the natural environment, promoting the efficient use of public infrastructure, and supporting a strong community character, robust civic life and economic vitality. The Division makes recommendations to the Planning Commission and City Council on key community issues and priorities while maintaining the Santa Clara General Plan. The Division is also responsible for administering Zoning regulations through the Development Review process and Code Enforcement.

○ Building Inspection Division

The Inspection Services Division administers City and State Regulations for the design and construction of all buildings under its jurisdiction in Santa Clara. Building Inspection assures that buildings and structures meet the minimum code requirements to safeguard life, health, prosperity and public welfare of the citizens. The division also administers the housing code and performs tri-annual inspection of all apartments in the City.

• **Public Works**

○ Engineering Department Division

The Engineering Department is managed through four divisions: Traffic Engineering, Design, Field Services, and Land and Property Development. Engineering plans, designs and provides construction management and inspection for public infrastructure projects such as storm drains, sanitary sewers, roads, traffic signals, pedestrian, bicycle and vehicular facilities, as well as public buildings like our libraries, fire stations, police headquarters, the senior center and the buildings at City Hall. Another responsibility of the department is the cleanup of contaminated soils and groundwater on City property.

○ Building Maintenance Division

The Building Maintenance Division is responsible for the repair and maintenance of approximately 800,000 square feet of City-owned buildings. The Division also provides janitorial services to most City buildings using both in-house staff and contracted services.



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With a clear hazard mitigation strategy, as outlined in this Local Hazard Mitigation Plan, the City's departments are able to implement their ongoing policies and programs with consideration of the identified hazard risks. In addition, these departments become aware of priority mitigation actions and can offer resources (financial or staffing) to assist with the implementation of those actions.

20.3.2.2 Technical Capability

For a successful mitigation program, it is necessary to have a diverse breadth of staff and technical capabilities. Planners, engineers, building inspectors, emergency managers, floodplain managers, people familiar with Geographic Information Systems (GIS), and grant writers are all essential to implementing mitigation actions. The following table summarizes the staffing capabilities available within the City of Santa Clara.

Table 20-9: Technical Capability Matrix

Technical Capability Matrix	
<i>Land Use Planners</i>	Planning Division Planning Department- Kevin Riley 408-615-2450
<i>Emergency manager</i>	Fire Department- Gene Sawyer 408-615-4954
<i>Civil or Building Engineers</i>	Civil Engineering: Engineering Department - Design Division - Gustavo Gomez 408-615-3011 Building Engineers: Building Inspection: Sheila Lee 408-615-2440
<i>Floodplain manager</i>	Floodplain Manager: Director of Planning: Kevin Riley 408-615-2450
<i>Staff knowledgeable about hazards</i>	Fire Department Police Department City Manager's Office



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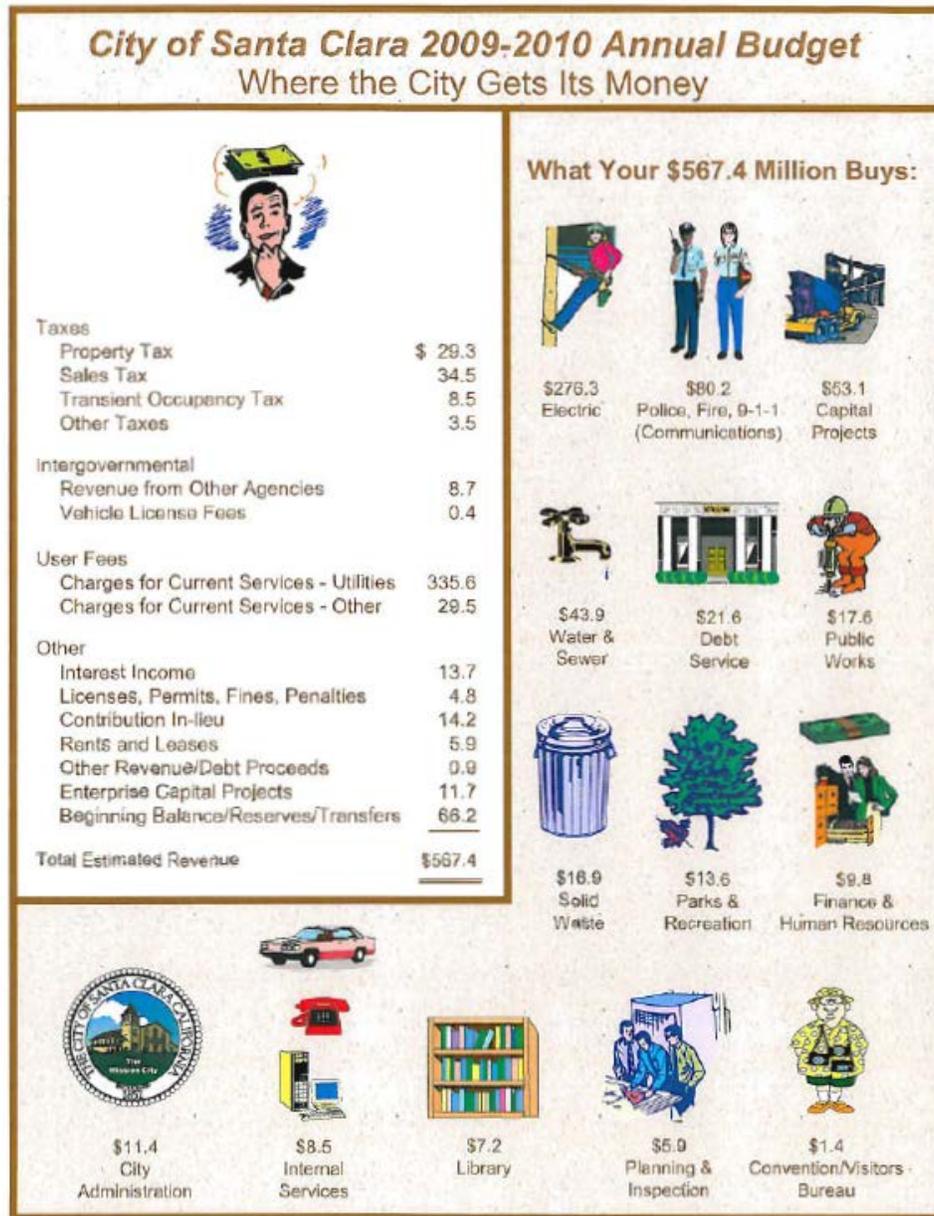
Technical Capability Matrix	
<i>GIS staff</i>	GIS Staff: IT Department - Gabriel Paun, GIS Manager 261-5299
<i>Grant writers</i>	Various Departments

20.3.2.3 Fiscal Capability

The following summarizes Santa Clara's fiscal capabilities in terms of the City's financial resources and allocated spending. Charges for Current Services, and Property and Sales Taxes are the primary sources of Santa Clara's financial resources. The City has allocated the majority of financial resources to Electric, Police/Fire/9-1-1, and Capital Projects. These three categories are all relevant for implementing hazard mitigation actions.



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2009-2010 Capital Improvement Project (CIP) Budget

In the 2009-10 Capital Improvement Project (CIP) budget, projects were prioritized based on need and placed in major theme categories consistent with Council's goals. The pie chart below shows the percentage allocations for the total 2009-10 CIP budget which consists of \$53.1 million for the City and \$7.3 million for the Redevelopment Agency (RDA). The total CIP budget, including City and RDA, is \$60.4 million. This combined CIP appropriation represents a decrease of 36%, or \$33.7 million, over the combined total CIP appropriation in 2008-09 fiscal year.

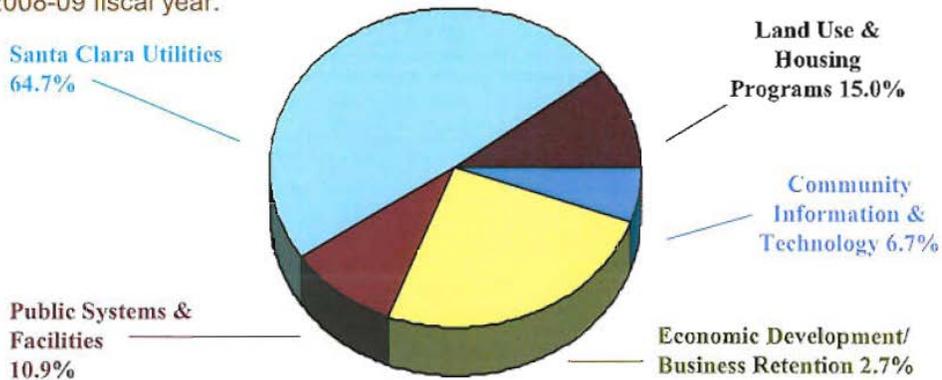


Table 20-10: Fiscal Capability Matrix (in Millions)

Fiscal Capability Matrix (in Millions)	
<i>Electric</i>	276.3
<i>Police, Fire, 911</i>	80.2
<i>Capital Projects</i>	53.1
<i>Water & Sewer</i>	43.9
<i>Debt Service</i>	21.6
<i>Public Works</i>	17.6
<i>Solid Waste</i>	16.9
<i>Parks & Recreation</i>	13.6
<i>Finance & Human Resources</i>	9.8
<i>City Administration</i>	11.4
<i>Internal Services</i>	8.5



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Fiscal Capability Matrix (in Millions)	
<i>Library</i>	7.2
<i>Planning & Inspection</i>	5.9
<i>Convention/ Visitors Bureau</i>	1.4
<i>Total</i>	567.4

Table 20-11: Financing Mechanisms (in Millions)

Financing Mechanisms (in Millions)										
	<i>Property Tax</i>	<i>Sales Tax</i>	<i>Transient Occupancy Tax</i>	<i>Other Taxes</i>	<i>Revenue from Other Agencies</i>	<i>Vehicle License Fees</i>	<i>Charges for Current Services – Utilities</i>	<i>Charges for Current Services – Other</i>	<i>Other</i>	<i>Total Estimated Revenue</i>
	29.3	34.5	8.5	3.5	8.7	0.4	335.6	29.5	117.4	567.4

20.3.2.4 Policy or Program Capability

The City of Santa Clara has several plans and ordinances in place which provide ample opportunities for implementing the hazard mitigation strategy outlined in this plan.

20.3.2.4.1 Summary of Plans that Support Hazard Mitigation

The City has two planning mechanisms within which this plan has been integrated:

- ◆ General Plan Safety Element
- ◆ Emergency Operations Plan

The City has a Safety Element in its General Plan that includes a discussion of fire, earthquake, and flooding hazards. This Annex was 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 Emergency Operations Plan addresses the planned response of the City of Santa Clara to extraordinary emergency situations associated with natural disasters, technological incidents,



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and Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) operations. The plan does not apply to normal day-to-day emergencies and the well-established and routine procedures used in coping with such emergencies. Instead, the operational concepts reflected in this plan focus on potential large-scale disasters, which can generate unique situations requiring unusual responses. Such disasters pose major threats to life and property and can impact the well-being of large numbers of people. The Emergency Operations Plan is a preparedness document-intended to be read and understood before an emergency. It is designed to include the City of Santa Clara as part of a statewide emergency management system.

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.

Emergency Operations Plan

The City of Santa Clara's Emergency Operations Plan (EOP) is designed to provide a legal framework for the management of emergencies and guidance for the conduct of business in the Emergency Operations Center (EOC). The EOP addresses the planned response of the City of Santa Clara to extraordinary, large-scale emergency situations associated with natural disasters, technological incidents, and chemical, biological, radiological, nuclear, and explosive operations. The EOP provides an all hazard, all risk framework for collaboration among responsible agencies and coordination of emergency activities to prepare for, respond to, and recover from emergencies, both in peacetime and wartime. Santa Clara's basic plan EOP is outlined in phases, which are listed and described below.

Santa Clara's primary EOC is located adjacent to the Fire Training Center. The alternate EOC is the Fire Department Training Center Classroom. Department Operations Centers also exist for Police, Fire, Electric, Water, Sewer, Street, and other departments in the event that field operations and infrastructure remediation require an additional level of management during the recovery process. The operational priorities are listed in the EOP and are listed in order of main concern: saving lives, addressing human needs, caring for vulnerable populations, protecting property, restoring basic services, protecting the environment, and encouraging community and economic recovery.

Preparedness Phase

The Preparedness Phase involves activities undertaken in advance of an emergency. These activities develop operation capabilities and improve effective response to disasters. Planning activities include developing hazard analyses, writing mutual aid operational plans, training response personnel, and improving public information and communication systems.



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Increased Readiness Phase

Actions taken during the buildup of a crisis situation are designed to increase an organization's ability to respond effectively to a disaster. These actions could include briefing officials, reviewing and updating plans, Standing Operating Procedures and resource information, increasing public information efforts preparing information for release to the public, updating resource lists, testing warning and communication systems, accelerating training programs, and inspecting, dispensing, and /or relocating equipment.

Pre-Impact Phase

During the approach of a potential disaster, actions should be taken to save lives and protect property. During this phase, warning systems are activated, resources are mobilized, EOCs are activated, and evacuation may begin. Other actions accomplished during this phase may be concentrated on the movement of people from identified hazard areas to safer, lower risk areas and on providing food, lodging, and shelter for the people in the reception areas.

Immediate Impact Phase

During this phase, emphasis is placed on saving lives, controlling the situation, and minimizing the effects of the disaster. Immediate response actions are accomplished within the affected area by government agencies (including requests for mutual aid) and segments of the private sector. The following operations may take place during this phase:

- Disseminating warning, emergency public information, and other advice and action instructions to the public.
- Surveying and evaluating the emergency situation.
- Mobilizing, allocating, and positioning personnel and equipment.
- Conducting evacuation and/or rescue operations as required.
- Providing for the triage and treatment of casualties.
- Providing temporary morgues for the deceased.
- Providing for the mass care (food, lodging, etc.) needs of displaced persons.
- Promulgate orders and regulations necessary to provide for the protection of life and property, including orders or regulations imposing a curfew within designated boundaries.
- Exercise full power to provide mutual aid to any affected area in accordance with Local Ordinances, Resolutions, Emergency Plans, or agreements thereto.
- Request that state agencies provide mutual aid.
- Require the emergency services of any local official or employee.
- Requisition necessary personnel and material of any department or agency.
- Obtain vital supplies and equipment and, if required immediately, to commandeer the same for public use.
- Impose penalties for violation of lawful orders.



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- Conduct emergency operations without facing liabilities for performance, or failure of performance. (Note: Article 17 of the Emergency Services Act provides for certain privileges and immunities.)
- Enforcing police powers in controlling the locations and movement of people, establishing access controls, erecting traffic barricades, etc.
- Implementing health and safety measures.
- Protecting, controlling, and allocating vital resources.
- Advising industry, schools, and businesses of possible phased shutdowns.
- Restoring or activating essential facilities and systems.

Sustained Emergency Phase

As the emergency continues, assistance is provided to victims of the disaster and efforts are made to reduce secondary damage. An emphasis should be on actions to help displaced persons and secure dangerous areas. Activity during this phase includes: more definitive medical treatment, operation of mass care facilities, registration of displaced persons, reuniting of family members, and a detailed damage assessment.

Recovery Phase

Recovery is both short term and long term. Short term activities are intended to return vital life-support systems to operation. Long term activities are designed to return infrastructure systems to pre-disaster conditions.

Mitigation Phase

Mitigation planning includes a review of ways to eliminate or reduce the impact of future disasters. Specific hazard mitigation plans are prepared following a federally-declared disaster. They reflect the current risk analysis and mitigation priorities specific to the declared disaster. Mitigation efforts occur both before and after emergencies or disasters.

Pre-Disaster Mitigation efforts include:

- amending local ordinances and statutes, such as zoning ordinances, building codes, and other enforcement codes;
- initiating structural and infrastructure retrofitting measures;
- assessing tax levies or abatements;
- emphasizing public education and awareness; and
- assessing and altering land use planning.

Post-Disaster Mitigation efforts include:

1. Short Term Objectives:
 - Protection of individual well-being
 - Restoration of family unity
 - Provisions for essential public services
2. Long Term Objectives



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- Permanent restoration of private and public property
- Economic and resource stabilization
- Restoration of normal government operations
- Assess needs for hazard mitigation
- Updating plans based on lessons learned

Annexes

Santa Clara's EOP includes several Annexes that describe the emergency response organization of each section of command- Management, Operations, Planning and Intelligence, Logistics, and Finance. The Annexes also provide guidance on terrorist events, managing displaced domestic animals in time of a disaster, and on performing damage assessment surveys, hazard mitigation, first aid and rescue, and identifying resource needs in the neighborhoods of Santa Clara. Appendices that provide Emergency Action Checklists for hazard-specific responses support each Annex.

General Plan

Safety Element

The City of Santa Clara has adequately provided fire and other emergency services in the past, has a good safety record in terms of fire protection and a minimum of fire losses. This record is reflected in the City's excellent fire insurance rating of Class 2. This low level of fire risk is the combined result of the high proportion of new construction which meets current Uniform Building Code standards, and an efficient fire protection service.

The city has highly trained and equipped personnel to respond to fire, flood, chemical release and medical emergencies. Life saving functions performed by the Fire Department include emergency medical services, rescue, first aid, resuscitation, cardio-pulmonary resuscitation and evacuation. An acceptable level of fire service requires a timely response of trained personnel and equipment to any emergency. The fire department can respond to any incident within two to three minutes of receipt of the alarm.

If City road networks do not substantially change or do not become too restricted so as to impede emergency traffic, the existing Fire Station locations will adequately serve the City of Santa Clara during the life of this General Plan. However, increased calls for fire service and traffic congestion may erode the Fire Department's critical response times. To mitigate any impacts, the Fire Department may adjust staff and equipment in high areas of service demand. Santa Clara has an existing program of placing emergency traffic preemption controls on key signals of primary emergency response routes.



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Flood Protection

Flood zone mapping by FEMA indicates that approximately ten percent of the City is located within a Special Flood Hazard Area. Development may occur within these areas, provided it complies with local floodplain management ordinances and meets the minimum federal requirements. Policies to reduce hazards associated with flooding and to monitor potential sea level rising as a result of global warming are included in the 2011 edition of the General Plan. In addition, a summary of the Flood Damage Prevention Code is located below.

Land Use Element

The policies contained in the Land Use Element are intended to be compatible and consistent with policies in other elements of the General Plan: Housing, Transportation, Public Facilities and Services, and Environmental Quality. These policies in the Land Use Element are especially intended to guide interpretation of the Land Use and Circulation Diagram.

A land use classification that permits the manufacture, production, and processing of consumer goods. Industrial is often divided into "office" uses, such as the combination of a variety of businesses, from office to research and development to light industry to warehousing, located in structures built with open floor plans, so as to leave most interior improvements to the tenants to design to their needs; "light industrial" uses, such as research and development and less intensive warehousing and manufacturing, and "heavy industrial" uses, such as construction yards, quarrying and factories.

Heavy Industrial

This designation is intended to protect a minimum amount of land in the City for those uses that only are appropriate in a heavy industrial zoning district. Such uses might include auto wrecking, concrete batching plants, large warehouses, and hazardous chemical treatment or transfer points if potential adverse impacts are mitigated as part of conditional approval.

Housing Element

The City of Santa Clara is subject to flooding. While not a constraint on new development, it may add additional costs. There is no planned additional residential development in these impacted areas, with the exception of the area westerly of the intersection of San Tomas Expressway and El Camino Real where Mixed Use development is planned. Ground floor commercial uses can be flood-proofed, but any ground-floor residential must be elevated above flood flow height. It is not possible to estimate the magnitude of the cost, according to the City's Building Inspection Division.



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Seismic Hazards

Like the entire Bay Area region, the City of Santa Clara is located within an area of high seismic activity. No known active fault crosses the City. Santa Clara's proximity, however, to the San Andreas fault seven miles to the west, the Hayward fault five miles to the east, and the Calaveras fault seven miles to the east, along with other more minor faults in the Valley, subjects the area to surface rupture, ground shaking, liquefaction, and ground failure. A number of older buildings in Santa Clara have undergone seismic rehabilitation to reduce seismic risk.

Flooding

Several watercourses traverse the City running generally south to north towards San Francisco Bay. Calabazas Creek and San Tomas Aquino Creek are located in the western and central part of the City respectively, with the Guadalupe River flanking the eastern City limits. These are channeled watercourses designed to handle the 100-year flood.

Hazardous Materials and Hazardous Wastes

There are a number of land uses within the City that utilize hazardous materials. The majority of these are located in industrially zoned land somewhat separated from residential. The City does not have a zone district to implement the Industrial Transition general planned areas adjacent to certain residential neighborhoods. Such a zone district would restrict outdoor storage of hazardous materials, for example, so as to buffer adjacent residences. The City follows all applicable State and Federal laws with regards to hazardous waste sites or the storage and transfer of hazardous wastes. The Hazardous Materials Division of the Fire Department is the local lead in decision-making regarding hazardous materials or hazardous wastes.

Fire Hazards

Fire incidents within the City are rare given the City's excellent positioning and number of fire stations and building code enforcement. Nonetheless, the City has an ongoing program to inspect multi-family residential units including checking for smoke detectors. The City's Fire Department also conducts Fire Safety programs.

These programs, along with enforcement of Fire Code regulations, will meet the growing fire service needs of the City of Santa Clara. The Fire Department has extensive fire and hazardous materials mutual aid plans with adjacent cities, county, and State agencies. Mutual aid agreements with surrounding jurisdictions augment the City's fire response capabilities.

Communications

Maintaining an up-to-date public safety communications system is vital to the public safety and welfare of every person, business and institution in the City of Santa Clara. The City of Santa



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Clara Communications Department answers a call for emergency assistance to 9-1-1, "Santa Clara Emergency", the City's Public Safety Answering Point (PSAP). The Communications Division maintains the necessary coverage 24 hours per day, 365 days a year. In the case of an emergency, medical, police or fire call to 9-1-1, the dispatch can be made to the proper responder in less than one minute. By asking key questions regarding the nature of the emergency, persons involved and other important specifics, the dispatcher can determine the amount and type of equipment to send. To further enhance the capabilities of emergency response teams, future considerations will include the addition of mobile data terminals in certain emergency vehicles. These upgrades will provide greater access to computer based information for all public safety personnel.

Disaster Planning

In cooperation with all governmental levels, the City of Santa Clara has developed a comprehensive and continuing program to protect and educate local residents before, during, and after a natural or technological disaster. The Office of Emergency Services has been created to coordinate emergency preparedness efforts within the City. To serve in the event of a disaster, an Emergency Operations Center has been constructed as the focal point for collecting and analyzing disaster information to develop the best possible utilization of available resources to mitigate the effects of the disaster. Emergency management operations within the City will integrate existing community resources in the public and private sectors with City-owned resources.

As an emergency supplement to local hospitals which may have a reduced capacity following an earthquake, the City has a packaged disaster hospital with a 200-bed capacity that can be set up in 24 hours. In addition, the materials necessary to establish several first aid stations are stored within the City. A system of shelters in major public buildings is capable of housing over 30,000 people for short periods. The Silicon Valley Chapter of the American Red Cross has trained City employees in shelter management.

To cope with an emergency, the design of the water and electric systems includes some duplication of critical elements and margins of safety to meet short term demands. (For example, the water system can meet peak demands for at least 12 hours with the loss of an electrical substation or the loss of the largest imported water source. Following a complete power failure, the average day demand can still be met for at least 12 hours using stored waters and standby pumps. The City's electric system can sustain the loss of any one substation transformer with no long term loss of service to customers. It can lose two such transformers with only a minimal long term loss of power.) Generally, a disaster probably would not cause complete breakdown of the City's electric system.



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Emergency Water Supply

Water agencies have the responsibility of providing sufficient water at adequate pressure to meet domestic demands while maintaining a reserve supply for fire fighting. A breakdown in a portion of the system can leave an area without water, which could result in serious consequences in the event of a fire or other emergency. A back-up water supply from an interagency connection can avert many serious situations. The City of Santa Clara has interagency connections with neighboring jurisdictions.

Flood Damage Prevention Code

The City of Santa Clara's Flood Damage Prevention Code was updated in 1987. The Code applies to special flood hazard areas, which are defined by FEMA DFIRM maps. The maps and other flood insurance information are on file in Santa Clara's City Hall.

Methods of reducing flood losses are outlined in the Code and include:

- Restricting uses which are dangerous to health, safety, and property due to water or erosion hazards
- Requiring that uses vulnerable to floods be protected against flood damage at the time of construction
- Controlling the alteration of natural floodplains, stream channels, and natural protective barriers which help accommodate flood waters
- Controlling filling, grading, dredging, and other development which may increase flood damage
- Regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards in other areas

Other methods of reducing flood damage to properties in special flood hazard areas include anchoring, using flood resistant materials, elevating, and floodproofing.

No structure or land should be constructed, located, extended, converted, or altered without full compliance with the terms of this Code. A building or grading permit must be obtained before construction or development begins within any area of special flood hazards. The permit applications are reviewed by the Floodplain Administrator.

A copy of the Flood Damage Prevention Code, 1987 Edition, is on file in the office of the City Clerk for examination and use by the public.



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Capital Improvements Plan

The City of Santa Clara's 2009-2010 Capital Improvements Plan includes various projects that could help mitigate potential hazards from occurring in the City. Funds are delegated toward upgrading and maintaining sanitary sewer, storm water, and water systems so that these utilities are able to perform and supply Santa Clara's residents with safe water. In particular, a storm water runoff management program has been proposed to help control local street flooding. Also, to ensure that clean water is available during the event of an earthquake, seismic retrofitting of water storage tanks has taken place in the City.

Electrical system backups and repairs are also taking place. The City realizes that there are currently insufficient backup control capabilities for electric operations in the event of a catastrophic event such as a fire or an earthquake. A proposed Backup Systems Center would backup electrical systems for safety and reliability in such emergency situations.

Communication information and technology backup systems are also necessary in Santa Clara. A project designed to enhance IT protection, allowing for adequate disaster recovery capabilities for IT systems using emergency backup, is taking place. The IT Systems Continuity Project is also designed to prepare the City, specifically IT resources, in the event that a disaster occurs. Another project designed to enhance communication calls for a new Police and Fire Mutual Aid Radio Repeater to be constructed within the City of Santa Clara. Currently, the radios rely on a phone line between the City and Signal Hill, which is subject to manmade and natural disasters. The City would overcome this safety issue by placing the repeater within its jurisdiction. An upgrade to the Emergency Operations Center communications system is another project that will improve communication reliability in the event of a disaster.

Street improvement projects, such as curb, sidewalk, and gutter rehabilitation and street striping, signals, and lighting, are funded in an effort to reduce vehicle and pedestrian accidents. Bike and pedestrian improvement projects are also undertaken for this same reason. In an effort to maintain bridge safety, many bridge maintenance projects are also ongoing in Santa Clara. Traffic calming and mitigation also takes place in the City. An on-going project funded by the Traffic Mitigation Fund calls for the construction of traffic pre-emptors in an effort to decrease emergency vehicle response times and enhances the safety of emergency vehicles moving through traffic.



The City of Santa Clara

20.3.2.4.2 Summary of Ordinances that Support Hazard Mitigation

Table 20-12: Availability of Ordinances that Support Hazard Mitigation

Availability of Ordinances that Support Hazard Mitigation								
<i>Jurisdiction</i>	<i>Prevention of Flood Damage Code</i>	<i>Zoning Ordinance</i>	<i>Subdivision Ordinance</i>	<i>Post-disaster Red/Rec. Ordinance</i>	<i>Building Code</i>	<i>Fire Code</i>	<i>National Flood Insurance Program</i>	<i>NFIP Community Rating System</i>
<i>City of Santa Clara</i>	Yes	Yes	Yes		Yes	Yes	Yes	Yes

The City of Santa Clara identified several ordinances and policies currently utilized for hazard mitigation in the matrix of regional mitigation strategies prepared by ABAG as part of the 2010 plan update. Below is a summary of these key ordinances and policies.

Ordinance No. 1576: Prevention of Flood Damage

The City of Santa Clara's Flood Damage Prevention Code was updated in 1987. It states that any person, firm, or corporation who constructs, locates, extends, converts, alters, and/or maintains any building, structure, or land in violation of the provisions of the Prevention of Flood Damage Code shall be guilty of an infraction and, upon conviction, will be punished by a fine of up to \$1,000 for each violation. The Prevention of Flood Damage Code is summarized above.

Hazardous Materials Handling and Storage Ordinance and Toxic Gas Model Ordinance

The Santa Clara Fire Department Hazardous Materials Division personnel participated with industry and environmental group personnel in writing the first Hazardous Materials Handling and Storage Ordinance (1983) and Toxic Gas Model Ordinance (1989). Following the successful Santa Clara County-wide implementation of these Model Ordinances, they became active in fire code formation. These two Model Ordinances became the basis for Articles 80 & 51 of the Uniform Fire Code and subsequently Chapters 27-44 of the International Fire Code. The International Fire Code is adopted or in use in 43 states and the District of Columbia.

Prior to implementation of both Model Ordinances, the Hazardous Materials Division personnel responded to hazardous materials incidents over 90 times a year in the City of Santa Clara. Subsequent to implementation of the Ordinances, hazardous materials responses trended downward. In five of the last six years, the Hazardous Materials Division personnel responded to less than 30 incidents per year – a mitigation of 66.7%



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20.3.3 National Flood Insurance Program

For decades, the national response to flood disasters was simply to provide disaster relief to flood victims. Funded by citizen tax dollars, this approach failed to reduce losses and didn't provide a way to cover the damage costs of all flood victims. To compound the problem, the public generally couldn't buy flood coverage from insurance companies, because private insurance companies consider floods too costly to insure. In the face of mounting flood losses and escalating costs of disaster relief to U.S. taxpayers, Congress established the National Flood Insurance Program (NFIP). The goals of the program are to reduce future flood damage through floodplain management, and to provide people with flood insurance. Community participation in the NFIP is voluntary.

The City of Santa Clara has participated in the National Flood Insurance Program (NFIP) and was initially accepted into the National Flood Insurance Program in 1980. All residents of the City are eligible to purchase federal flood insurance.

In June 2001, the City applied to the Federal Emergency Management Agency (FEMA) to be included in the NFIP's Community Rating System (CRS). On May 1st, 2002 the City was accepted to the CRS program and met the requirements for Class 8 rating in the CRS resulting 10% discount on flood insurance premiums issued or renewed on or after May 1st, 2002.

The City of Santa Clara stays in compliance with the NFIP by maintaining the flood maps (FIRM maps) and then using the flood maps to provide flood zone information to the residents. The City also distributes updated elevation certificates to the residents as requested.

To regulate flood hazard area, in addition to the FEMA maps, the City of Santa Clara continues to maintain the City system of elevation reference marks (City benchmarks). The City participates in Watershed Watch Campaign to raise awareness about water pollution in our creeks and the Bay, responds to sandbag requests for flood prevention, participates Santa Clara Valley Water District Annual Storm Preparedness meeting and EOC operations, updates status of collection system/drainage inlets, inspects San Tomas Aquino Creek, Saratoga Creek and Calabazas Creek outfalls, updates on Fairway Glen, Nelo-Victor, and Laurelwood storm water pump station monitoring, establishes Urban Runoff Pollution Prevention Emergency Spills Protocol, updates pump station status, etc.

The City of Santa Clara has experienced no obstacles with the implementation of the NFIP, nor have there been any issues with the community's participation in the program. There are no records for Repetitive Loss Properties due to flooding in the City of Santa Clara.

The City of Santa Clara stays in compliance with the NFIP by maintaining the flood maps (FIRM maps) and then using the flood maps to provide flood zone information to the residents. The city also distributes updated elevation certificates to the residents as requested.



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20.3.3.1 Community Rating System (CRS)

The CRS is a voluntary part of the National Flood Insurance Program that seeks to coordinate all flood-related activities, reduce flood losses, facilitate accurate insurance rating, and promote public awareness of flood insurance by creating incentives for a community to go beyond minimum floodplain management requirements. The incentives are in the form of insurance premium discounts. CRS ratings are on a 10-point scale (from 10 to 1, with 1 being the best rating), with residents of the community who live within FEMA's Special Flood Hazard Areas (SFHA) receiving a 5% reduction in flood insurance rates for every Class improvement in the community's CRS rating.

The City of Santa Clara joined the Community Rating System in May 2002 and has a current class rating of 8. Properties within FEMA's Special Flood Hazard Areas in Santa Clara receive a 10% reduction in flood insurance rates. Properties outside the SFHA within Santa Clara receive a 5% discount in flood insurance rates.

20.3.3.2 Repetitive Loss Properties

The Federal Emergency Management Agency (FEMA) insures properties against flooding losses in the Bay Area through the National Flood Insurance Program.

As part of the process to reduce or eliminate repetitive flooding to structures across the United States, FEMA has developed an official Repetitive Loss Strategy. The purpose behind the national strategy is to identify, catalog, and propose mitigation measures to reduce flood losses to the relatively few number of structures that absorb the majority of the premium dollars from the national flood insurance fund.

A repetitive loss property is defined by FEMA as "a property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year period since 1978."

The City of Santa Clara has no repetitive flood loss properties.

Source: <http://quake.abag.ca.gov/mitigation/floodloss/>

20.3.4 Resource List:

Documents used in the assembly of this Capability Assessment include: City website, City FY10/11 Annual Budget, Emergency Operations Plan, General Plan, and Capital Improvements Plan.



The City of Santa Clara

20.4 VULNERABILITY ASSESSMENT

20.4.1 Critical Facilities

During the development of this 2011 annex, the City identified 80 critical facilities and provided this list to ABAG in participation with the regional planning process. A summary listing of these facilities is shown in Table 20-13.

Table 20-13: City of Santa Clara Critical Facilities

Facility Name	Address	Critical Function
Fire Station #10	5111 Star and Stripes Way	Fire Response
SVP (NAJ)	1515 Norman Ave.	Utility
David's Restaurant/Golf & Tennis Facility	5151 Stars and Stripes Dr.	Restaurant/Tennis & Golf Center
David's Banquet Facility	5131 Stars and Stripes Dr.	Restaurant/Banquet Facility
SVP (URA)	2705 Bowers Ave.	Utility
Convention Center	5001 Great America Parkway	Multiple Occupancy; Public Electrical substation assembly Building
SVP (CEN)	3370 Bowers Ave.	Utility
SVP (KRS)	2970 Lafayette St.	Utility
SVP (GIA)	2339 Gianera St.	Utility
SVP (LAF)	2960 Lafayette St.	Utility
Building Maintenance Shop	2975 Lafayette	Bldg. Maintenance Activities
SVP (NRS)	4857 Centennial Blvd.	Utility
SVP (SRS)	1205 Space Park Dr.	Utility
SVP (FIB)	2850 Lafayette St.	Utility
SVP (RAY)	1205 Space Park Dr.	Utility
SVP (FGCS)	2965 Lafayette St.	Utility
Northside Tanks/Booster Pumps	2339 Gianera St.	Utility
Rabello Pump Station	5601 Lafayette St.	Utility
Police Pistol Range	1990 Walsh Ave.	Police Training/Response
Fire Station #2	1900 Walsh Ave.	Fire Response
Street Corporation Yard	1700 Walsh Ave	Street/Automotive/Water/SeWater wellr Departments
Fire ToWater wellr	1900 Walsh Ave.	Fire Training
Walsh Elevated Tank	1700 Walsh Ave.	Utility
Fire Training Center	1900 Walsh Ave.	Fire Response
Emergency Operations Ctr.	1990 Walsh Ave.	Disaster Headquarters
SVP (WAL)	1600 Walsh Ave.	Utility
SVP (CCA)	2700 De La Cruz Blvd.	Utility



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Facility Name	Address	Critical Function
SVP (MAT)	600 Mathew St.	Utility
Kaiser Pump Station	900 Kiely Blvd.	Utility
Fire Station #3	2821 Homestead Road	Fire Response
Youth Activity Center	2450 Cabrillo	Youth Activity
Teen Center	2446 Cabrillo	Youth Activity
SVP (DUA)	850 Duane Ave.	Utility
SVP (DVR)	850 Duane Ave.	Utility
Parks Service Center	2600 Benton	Parks Admin.& Maintenance
Community Services Bldg.	1515 Civic Center Drive	Community Services
SVP (ANNEX)	1601 Civic Center Dr.	Utility
Old Police Administration	1541 Civic Center Drive	Police Response
Senior Center	1303 Fremont St.	Community Activity
Berman Building	1405 Civic Center Drive	IT & Communication Depts.
Bldg. Maint. Warehouse	815 Comstock	Bldg. Maint. Storage
Police Administration	601 El Camino Real	Police Response
Fire Prevention	1177 Alviso St.	Fire Response
Water well 3-02	500 Benton St.	Utility
Headen-Inman House	1509 Warburton Ave	Historical
Pavilions (4)	1511 Warburton Ave.	Teaching
Utility Yard	1705 Martin	Electric Administration & Purchasing Warehouse
SVP (TAS)	2550 Tasman Dr.	Utility
SVP (ZEN)	3050 Semiconductor Dr.	Utility
SVP (COG)	524 Robert Ave.	Utility
Court House	1675 Lincoln Ave.	Engineering/Fire Inspection
Triton Museum	1505 Warburton Ave	cultural value
Jamison-Brown House	1507 Warburton Ave.	Historical
Water well 11	651 Bucher Ave.	Utility
Fire Station #4	2323 Pruneridge Ave.	Fire Response
Downtown Tank/Booster Pumps	351 Brokaw Rd.	Utility
SVP (BRO)	349 Brokaw Rd.	Utility
Serra Tanks/Booster Pumps	200 Lawrence Expwy.	Utility
International Swim Center	2625 Patricia	Swim Center
Central Park Library	2635 Homestead Road	Culture
Fire Station #9	3011 Corvin Road	Fire Response
Fire Station #5	1912 Bowers Ave.	Fire Response
SVP (HOM)	2831 Homestead Rd.	Utility
Community Rec. Center	969 Keily Blvd.	Community Activity
Rivermark Comm. Policing	Rivermark Center	Police Response
Fire Station #1	777 Benton St.	Fire Response
MIElectrical substation Library	1098 Lexington Ave.	Culture



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Facility Name	Address	Critical Function
BerryeElectrical substationa Adobe	373 Jefferson	Historical
Harris-LaElectrical substation House	1889 Market Street	Historical
Cemetary	420 N. Winchester Blvd.	Cemetary
Fire Station #7	3495 Benton St.	Fire Response
Water welllll 17-02	3460 Brookdale Dr.	Utility
SVP (SER)	5301 Stevens Creek Blvd.	Utility
City Hall	1500 Warburton Ave.	City Administration
SVP (Electrical substations)	810 Thomas Foon Chew Way	Utility
Fire Station #6	888 Agnews Road	Fire Response
SVP (AGN)	2375 Agnew Rd.	Utility
SVP (JUL)	3750 Juliette Lane	Utility
Fire Station #8	2400 Agnew Road	Fire Response
Northside Pump Station	4495 N. 1st St.	Utility

This list of critical facilities and available information for them is available digitally in an excel spreadsheet (SantaClara_Exposure_Analysis.xls) from the City. A complete printing of the critical facilities data is included in Santa Clara City Attachment 3: Santa Clara City Exposure Analysis.

20.4.2 Exposure Analysis

Exposure analyses are used to quantify assets which are “exposed” to risk. This is the first step towards understanding the complete value of assets at risk to identified hazards. This section includes an exposure analysis (discussion of assets at risk) for the profiled hazards in Section 4.

Overlay analyses (using GIS) were conducted for the mappable hazards such as wildfire, flood, and the earthquake related hazards. These analyses compare the location of the critical facilities with the mapped hazard area (i.e. floodplains, wildfire threat zones, shaking potential areas, etc.) and result in a listing of which facilities are at most risk to which hazard. Not all hazards are mappable and some hazards, such as drought, are equally likely throughout the entire County. For these hazards, a general exposure summary is presented in Section 20.4.2.1.

In general, the hazard exposure of the City of Santa Clara has remained the same over the last five years. The City of Santa Clara actually 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 lists below describe the exposure of urban land within the City to the various hazards.



The City of Santa Clara

20.4.2.1 General Exposure

ABAG's website (<http://quake.abag.ca.gov/mitigation/landuse/>) presents the results of the regional exposure analysis through a searchable online database. Users can view the summaries of land use and infrastructure exposed to the mappable hazards. This section presents the general summary of land use and infrastructure in the City of Santa Clara. These should be considered at risk to the hazards of equal likelihood throughout the entire County geography (i.e. drought, extreme heat, thunderstorm, etc).

JURISDICTION: Santa Clara
 COUNTY: Santa Clara
 HAZARD: Land Use
 BASIS: Existing Land Use, 2005 using 2009 hazard mapping

	Total Acres
TOTAL RESIDENTIAL LAND [excluding mixed use]:	3,806
1 unit/1-5 acre lot (Rural Residential)	54
1-3 units/acre	44
3-8 units/acre	2,366
>8 units/acre	1,342
Mobile Home Parks	1
TOTAL MIXED RESIDENTIAL/COMMERCIAL:	1
Within a Land Area	0
Within a Building	0
Mixture of Above or Unknown	1
TOTAL MIXED COMMERCIAL/INDUSTRIAL:	1
TOTAL INDUSTRIAL [excluding mixed]:	1,686
Light Industrial	174
Heavy Industrial	551
Salvage/Recycling, Mixture or Unknown	837
Food Processing, Warehousing	124
TOTAL MAJOR INFRASTRUCTURE:	2,409
Roads, Highway and Related Facilities	2,301
Rail Stations, Yards and Related Facilities	54
Airports	49
Ports	0



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Power Facilities	0
Municipal Wastewater Facilities	0
Municipal Water Supply Facilities	0
Communication Facilities	4
Infrastructure--Other, Unknown	2
TOTAL MILITARY:	0
Military Residential	0
Military Hospital	0
Military Communications	0
Military Airport or Port	0
General Military	0
Open Military Lands	0
Closed Military Facilities	0
TOTAL COMMERCIAL/SERVICES [excluding mixed]:	2,794
Subtotal-Commercial:	1,960
Retail/Wholesale	560
Research/Office	936
Comm. Outdoor Recreation	225
Other, Mixture or Unknown	239
Subtotal-Education:	587
Educational Offices and Day Care	0
Elementary/Secondary	354
Colleges/Universities	229
Stadium Facilities	1
University Housing	0
Day Care Facilities	2
Subtotal-Hospitals and Health Care	87
Trauma Center Hospitals	0
Community or Local Hospitals	83
Surgery Centers	0
State Prisons	0
State Mental Health Facilities	1
Clinics and Long-Term Care	3
Subtotal-Public Institutions:	160
Convention Centers	36
Sports Stadiums	0
Churches/Synagogues/Other	87
City Halls/County Administration	10



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Local Jails	0
Local Police/Fire/Emergency	20
Other-Comm. Centers/Libraries	8
TOTAL URBAN OPEN:	875
Golf Courses	193
Racetracks	0
Campgrounds and Other	0
Cemeteries	84
Parks	241
Vacant--Cleared for Redevelopment	0
Vacant--Undeveloped	295
Mixed Urban Open, Including Parks	62
TOTAL AGRICULTURE:	8
Cropland and Pasture	2
Orchards/Groves/Vineyards	6
Greenhouses	0
Confined Feeding	0
Farmsteads and Inactive	0
TOTAL RANGELAND:	2
Herbaceous Range	2
Shrub and Brush	0
Mixed Range	0
TOTAL WETLANDS [Based on USGS Mapping]:	2
Forested	0
Non-Forested	2
Salt Evaporators	0
Wetlands--Unknown	0
TOTAL FOREST LAND:	0
Deciduous	0
Evergreen	0
Mixed Forest	0
TOTAL SPARSELY VEGETATED:	24
Beaches	0
Other Sand	0



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Bare Rock	0
Mines/Quarries	0
Transitional--Landfills	0
Transitional--Other	0
Transitional--Mixture	24
Mixed Sparsely Vegetated	0
	=====
	<u>Total Acres</u>
TOTAL URBAN LAND:	11,573
TOTAL NON-URBAN LAND:	37
GRAND TOTAL:	11,610

Source: Association of Bay Area Governments, 2009.

Note: Because of independent rounding, subcategories may not add to totals.



The City of Santa Clara

JURISDICTION: Santa Clara
 COUNTY: Santa Clara
 HAZARD: Land Use
 BASIS: Existing Infrastructure, 2009

	Total Miles
ROADS:	362
Interstate Highway	8
Primary US/State Highway	9
Secondary State/Co Highway	88
Local Road	230
Misc Ramp/Road	28
TRANSIT:	16
Altamont Commuter Express (ACE)	5
Amtrak	5
Bay Area Rapid Transit (BART)	0
Caltrain	4
San Francisco Muni Metro	0
Santa Clara VTA	2
RAIL:	14
All Railroads	14
PIPELINES:	319
Pipelines Under Roads	319
	=====

Source: Association of Bay Area Governments, 2009.

Miles of pipeline is an approximation based on miles of road within water service area boundaries and does not include major aqueducts.

Miles of pipeline is miles of water pipelines. Miles of sewer pipelines should be approximately the same.

Note: Because of independent rounding, subcategories may not add to totals.



The City of Santa Clara

20.4.2.2 Critical Facilities Exposure by Hazard

ABAG's website (<http://quake.abag.ca.gov/mitigation/cf2010/>) presents the results of the regional facilities exposure analysis through a searchable online database. Users can view the summaries of how many facilities are exposed to the mappable hazards by category: health care facilities, schools, critical facilities, and bridges/interchanges. For the purposes of developing a City specific mitigation strategy, this section identifies which of the City's critical facilities are located in the mapped hazard areas.

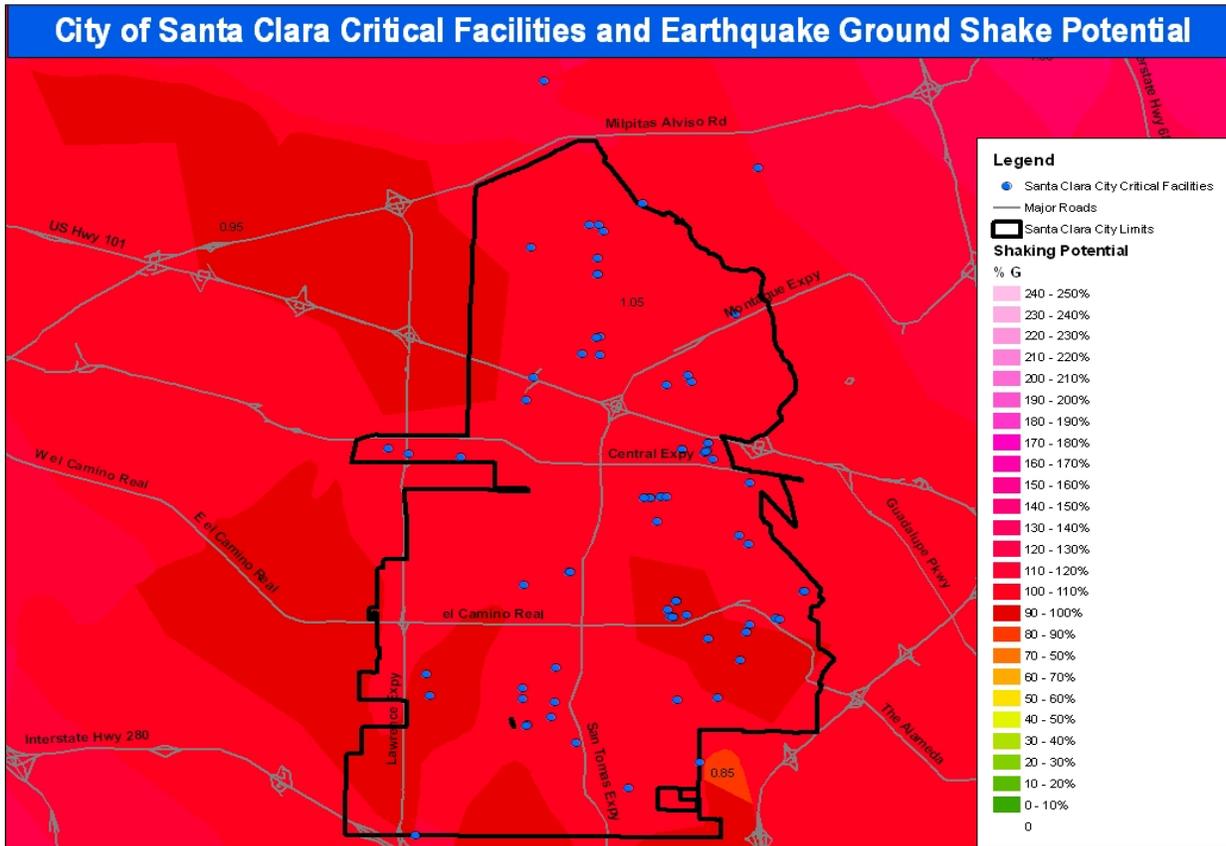
The complete results from ABAG's exposure analysis are available digitally in an excel spreadsheet from the City. A complete printing of these results is included in the City of Santa Clara Attachment 3: City of Santa Clara Exposure Analysis.



The City of Santa Clara

20.4.2.2.1 Earthquake Related Hazards

Ground Shaking



Source: CA Department of Conservation

Critical Facility	Peak Acceleration (% G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
SVP (SER)	115	Violent	Heavy	IX	\$0	\$2,245,000
Northside Pump Station	115	Violent	Heavy	IX		
Fire Station #10	105	Violent	Heavy	IX	\$1,500,000	\$280,000



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Critical Facility	Peak Acceleration (% G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
SVP (NAJ)	105	Violent	Heavy	IX	\$0	\$445,000
David's Restaurant/Golf & Tennis Facility	105	Violent	Heavy	IX		
David's Banquet Facility	105	Violent	Heavy	IX		
SVP (URA)	105	Violent	Heavy	IX	\$290,000	\$5,400,000
Convention Center	105	Violent	Heavy	IX	\$50,000,000	\$2,000,000
SVP (CEN)	105	Violent	Heavy	IX	\$208,000	\$3,970,000
SVP (KRS)	105	Violent	Heavy	IX	\$240,000	\$4,520,000
SVP (GIA)	105	Violent	Heavy	IX	\$43,426	\$23,783,434
SVP (LAF)	105	Violent	Heavy	IX	\$193,000	\$4,890,000
Building Maintenance Shop	105	Violent	Heavy	IX	\$750,000	\$250,000
SVP (NRS)	105	Violent	Heavy	IX	\$300,000	\$19,068,600
SVP (SRS)	105	Violent	Heavy	IX	\$275,000	\$5,300,000
SVP (FIB)	105	Violent	Heavy	IX	\$0	\$665,000
SVP (RAY)	105	Violent	Heavy	IX		
SVP (FGCS)	105	Violent	Heavy	IX		
Northside Tanks/Booster Pumps	105	Violent	Heavy	IX		
Rabello Pump Station	105	Violent	Heavy	IX		
Police Pistol Range	105	Violent	Heavy	IX	\$2,800,000	\$180,000
Fire Station #2	105	Violent	Heavy	IX	\$1,000,000	\$145,000
Street Corporation Yard	105	Violent	Heavy	IX	\$6,000,000	\$400,000
Fire ToWater wellr	105	Violent	Heavy	IX	\$48,000	\$0
Walsh Elevated Tank	105	Violent	Heavy	IX		



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Critical Facility	Peak Acceleration (% G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
Fire Training Center	105	Violent	Heavy	IX	\$600,000	\$157,000
Emergency Operations Ctr.	105	Violent	Heavy	IX	\$5,000,000	\$1,000,000
SVP (WAL)	105	Violent	Heavy	IX	\$0	\$3,675,000
SVP (CCA)	105	Violent	Heavy	IX	\$61,000	\$440,000
SVP (MAT)	105	Violent	Heavy	IX	\$240,000	\$2,760,000
Kaiser Pump Station	105	Violent	Heavy	IX		
Fire Station #3	105	Violent	Heavy	IX	\$520,000	\$70,000
Youth Activity Center	105	Violent	Heavy	IX	\$2,800,000	\$95,000
Teen Center	105	Violent	Heavy	IX	\$2,300,000	\$125,000
SVP (DUA)	105	Violent	Heavy	IX		
SVP (DVR)	105	Violent	Heavy	IX		
Parks Service Center	105	Violent	Heavy	IX	\$1,200,000	\$400,000
Bldg. Maint. Warehouse	105	Violent	Heavy	IX	\$500,000	\$150,000
Police Administration	105	Violent	Heavy	IX	\$18,000,000	\$4,500,000
Water well 3-02	105	Violent	Heavy	IX		
Utility Yard	105	Violent	Heavy	IX	\$9,400,000	\$450,000
SVP (TAS)	105	Violent	Heavy	IX	\$291,000	\$3,820,000
SVP (ZEN)	105	Violent	Heavy	IX	\$202,000	\$3,670,000
SVP (COG)	105	Violent	Heavy	IX	\$1,141,671	\$8,397,934
Water well 11	105	Violent	Heavy	IX		
Fire Station #4	105	Violent	Heavy	IX	\$590,000	\$80,000
Downtown Tank/Booster Pumps	105	Violent	Heavy	IX		
SVP (BRO)	105	Violent	Heavy	IX	\$193,000	\$3,540,000



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Critical Facility	Peak Acceleration (% G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
Serra Tanks/Booster Pumps	105	Violent	Heavy	IX		
International Swim Center	105	Violent	Heavy	IX	\$6,000,000	\$75,000
Central Park Library	105	Violent	Heavy	IX	\$26,000,000	\$12,000,000
Fire Station #9	105	Violent	Heavy	IX	\$4,200,000	\$160,000
Fire Station #5	105	Violent	Heavy	IX	\$900,000	\$125,000
SVP (HOM)	105	Violent	Heavy	IX	\$0	\$3,295,000
Community Rec. Center	105	Violent	Heavy	IX	\$11,000,000	\$400,000
Rivermark Comm. Policing	105	Violent	Heavy	IX		
Berrye Electrical substation Adobe	105	Violent	Heavy	IX	\$128,000	\$0
Harris-La Electrical substation House	105	Violent	Heavy	IX	\$1,000,000	\$0
Cemetery	105	Violent	Heavy	IX	\$750,000	\$80,000
SVP (Electrical substations)	105	Violent	Heavy	IX		
Fire Station #6	105	Violent	Heavy	IX	\$800,000	\$110,000
SVP (AGN)	105	Violent	Heavy	IX	\$0	\$3,675,000
SVP (JUL)	105	Violent	Heavy	IX	\$240,000	\$2,730,000
Fire Station #8	105	Violent	Heavy	IX	\$1,150,000	\$160,000
Community Services Bldg.	95	Violent	Heavy	IX	\$440,000	\$0
SVP (ANNEX)	95	Violent	Heavy	IX		
Old Police Administration	95	Violent	Heavy	IX	\$5,500,000	\$105,000
Senior Center	95	Violent	Heavy	IX	\$6,200,000	\$200,000
Berman Building	95	Violent	Heavy	IX	\$3,000,000	\$0



The City of Santa Clara

Critical Facility	Peak Acceleration (% G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
Fire Prevention	95	Violent	Heavy	IX	\$380,000	\$65,000
Headen-Inman House	95	Violent	Heavy	IX	\$500,000	\$0
Pavilions (4)	95	Violent	Heavy	IX	\$500,000	\$0
Court House	95	Violent	Heavy	IX	\$2,000,000	\$500,000
Triton Museum	95	Violent	Heavy	IX	\$6,000,000	\$0
Jamison-Brown House	95	Violent	Heavy	IX	\$800,000	\$0
Fire Station #1	95	Violent	Heavy	IX	\$4,100,000	\$525,000
MiElectrical substationion Library	95	Violent	Heavy	IX	\$2,500,000	\$1,500,000
Fire Station #7	95	Violent	Heavy	IX	\$1,000,000	\$150,000
Water welllll 17-02	95	Violent	Heavy	IX		



The City of Santa Clara

Soft Story Multi-Family Dwellings

In 2003, the Collaborative for Disaster Mitigation at San Jose State University completed an “Inventory of Soft-First Story Multi-Family Dwellings in Santa Clara County”. At that time, the city of Santa Clara had 320 soft-first story multi-family buildings including 3,297 residential units housing 8,243 occupants. Figure 20-1 below identifies the locations of these buildings.

Inventory of Soft-First Story Multi-Family Dwellings
City of Santa Clara

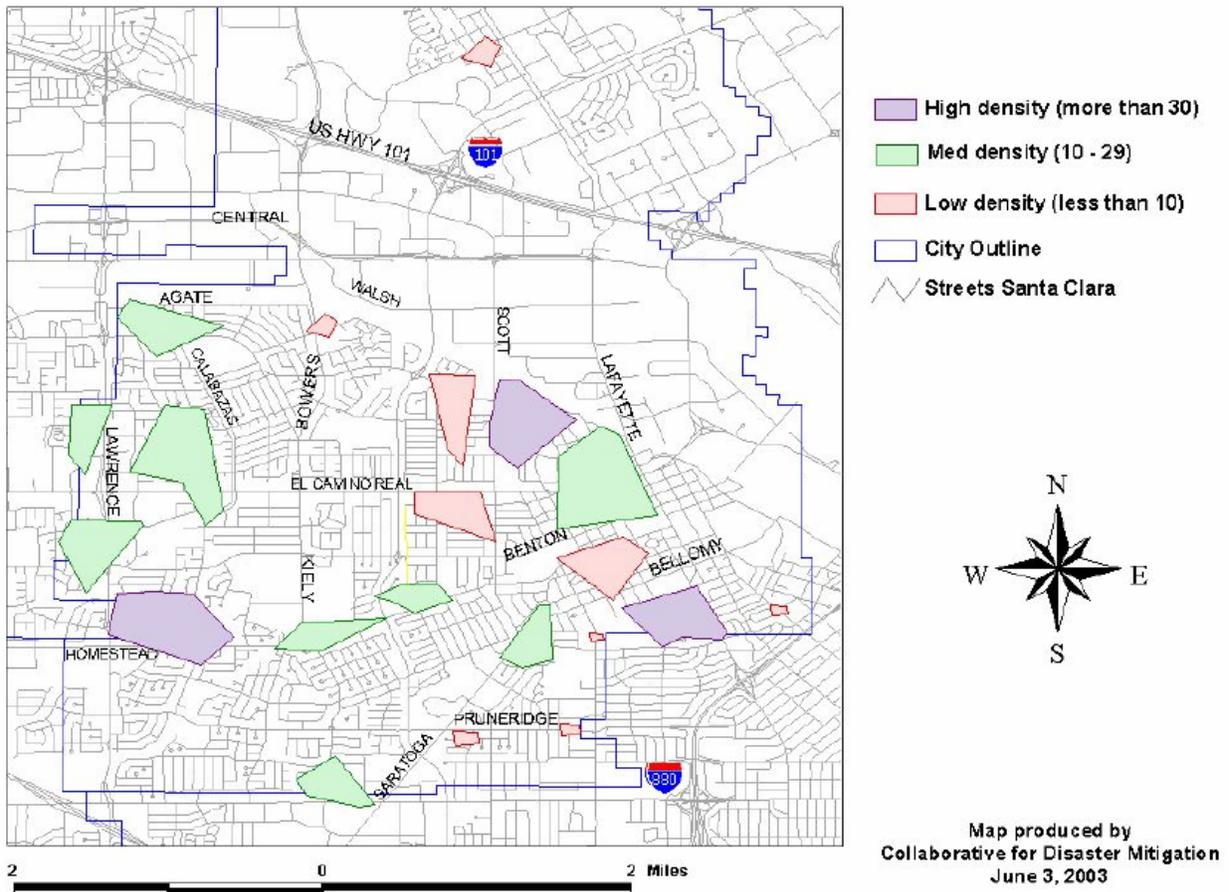
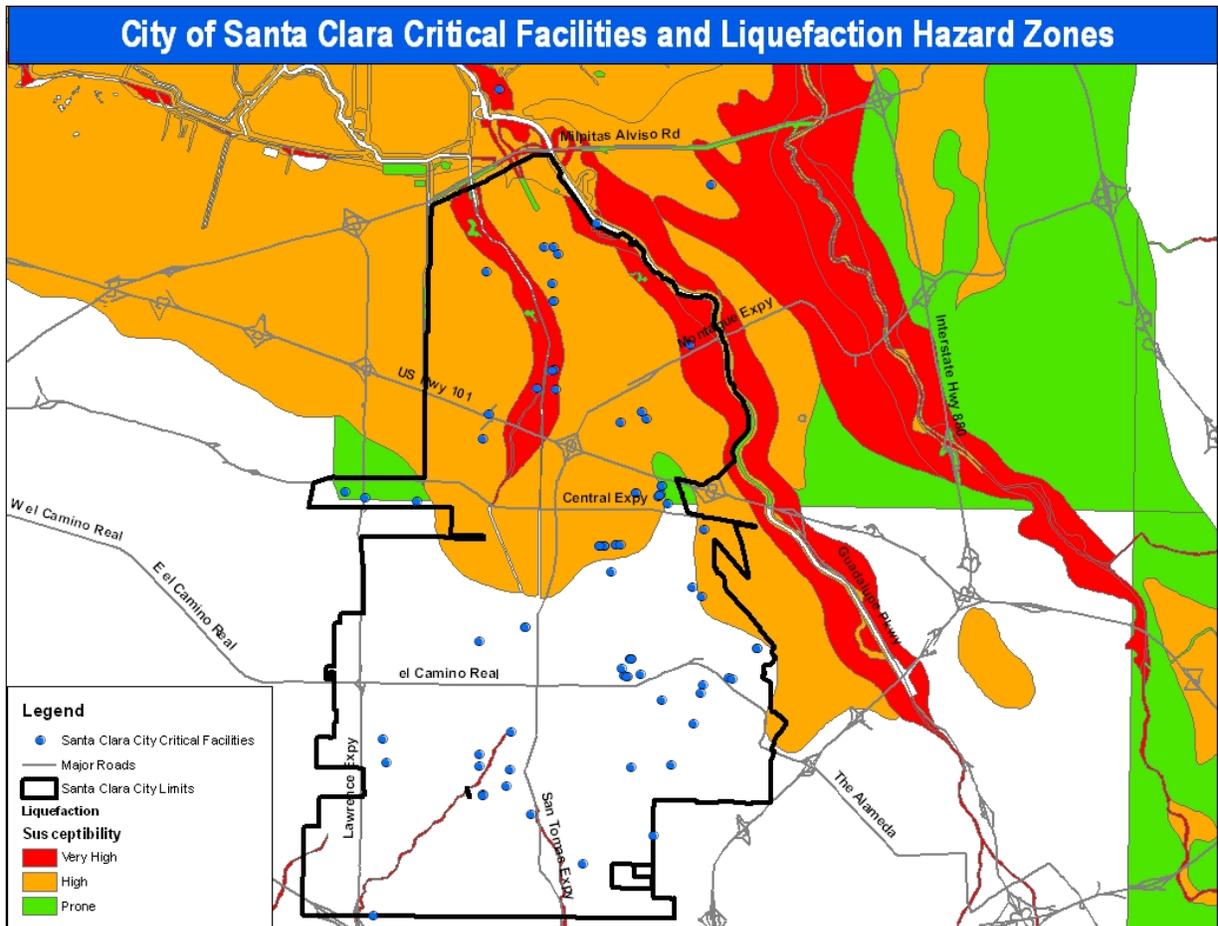


Figure 20-1: Inventory of Soft-First Story Multi-Family Dwellings-City of Santa Clara



The City of Santa Clara

Earthquake Induced Liquefaction



Source: Santa Clara Planning Office

Critical Facility	Liquefaction Hazard Zone	Bldg Insured Value	Contents Insured Value
Northside Pump Station	Very High		
Fire Station #6	Very High	\$800,000	\$110,000
SVP (JUL)	Very High	\$240,000	\$2,730,000
Fire Station #8	Very High	\$1,150,000	\$160,000
SVP (AGN)	Very High		\$3,675,000
Rivermark Comm. Policing	Very High		
SVP(Electrical substations)	High		
David's Restaurant/Golf & Tennis Facility	High		



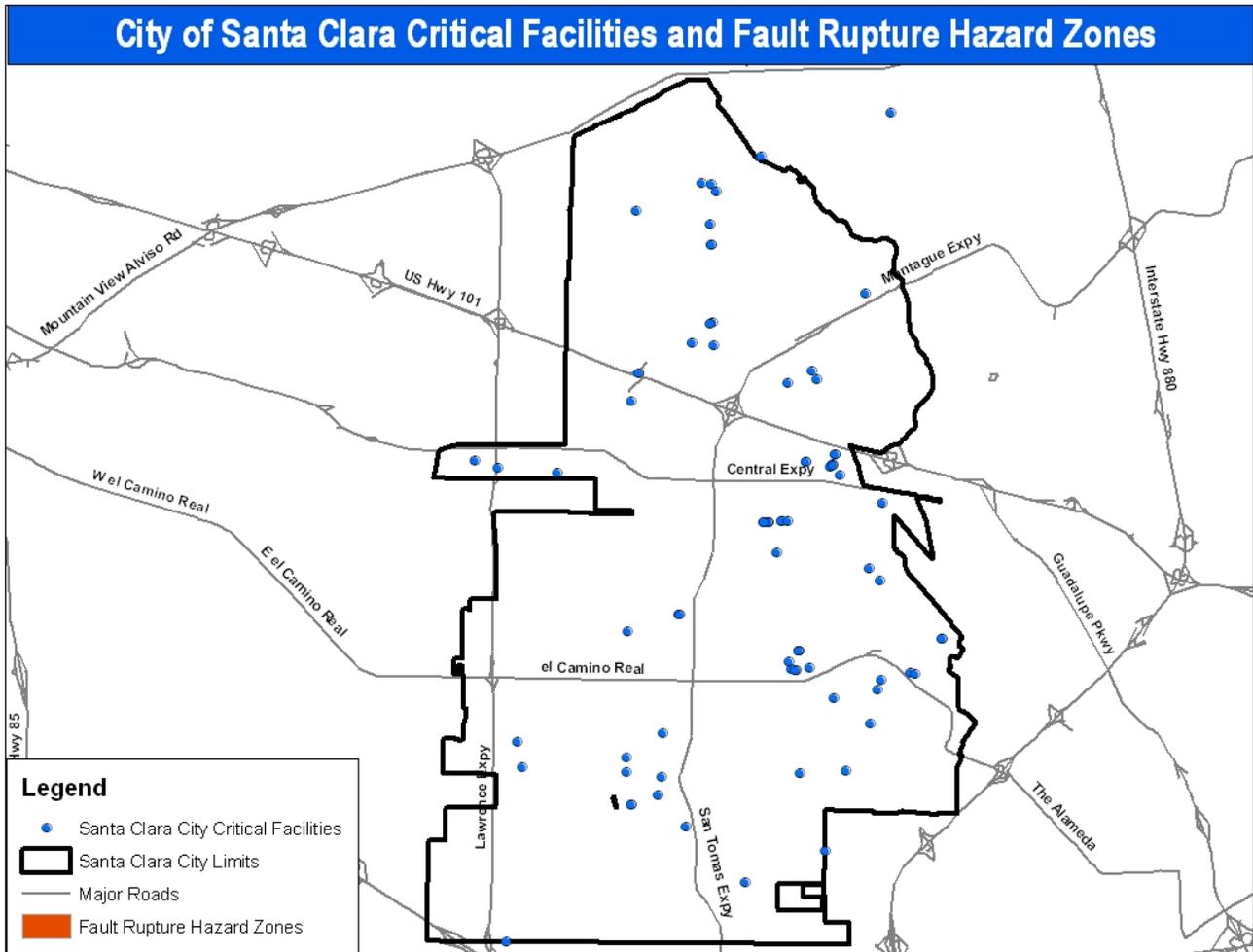
The City of Santa Clara

Critical Facility	Liquefaction Hazard Zone	Bldg Insured Value	Contents Insured Value
David's Banquet Facility	High		
Fire Station 310	High	\$1,500,000	\$280,000
SVP (NRS)	High	\$300,000	\$19,068,600
SVP (GIA)	High	\$43,426	\$23,783,434
Northside Tanks/Booster Pumps	High		
Convention Center	High	\$50,000,000	\$2,000,000
Rabello Pump Station	High		
SVP (FIB)	High		\$665,000
SVP (NAJ)	High		\$445,000
SVP (URA)	High	\$290,000	\$5,400,000
SVP (CEN)	High	\$208,000	\$3,970,000
Police Pistol Range	High	\$2,800,000	\$180,000
EOC	High	\$5,000,000	\$1,000,000
Fire Station #2	High	\$1,000,000	\$145,000
Fire ToWater Wellr	High	\$48,000	
Fire Training Center	High	\$600,000	\$157,000
Street Corporation Yard	High	\$6,000,000	\$400,000
Walsh Elevated Tank	High		
SVP (WAL)	High		\$3,675,000
SVP (SRS)	High	\$275,000	\$5,300,000
SVP (RAY)	High		
SVP (LAF)	High	\$193,000	\$4,890,000
SVP (KRS)	High	\$240,000	\$4,520,000
SVP (FGCS)	High		
Bldg Maintenance Shop	High	\$750,000	\$250,000
SVP (CCA)	High	\$61,000	\$440,000
SVP (MAT)	High	\$240,000	\$2,760,000
SVP (ZEN)	Prone	\$202,000	\$3,670,000
Serra Tanks/Booster Pumps	Prone		
SVP (DUA)	Prone		
SVP (DVR)	Prone		



The City of Santa Clara

Surface Rupture



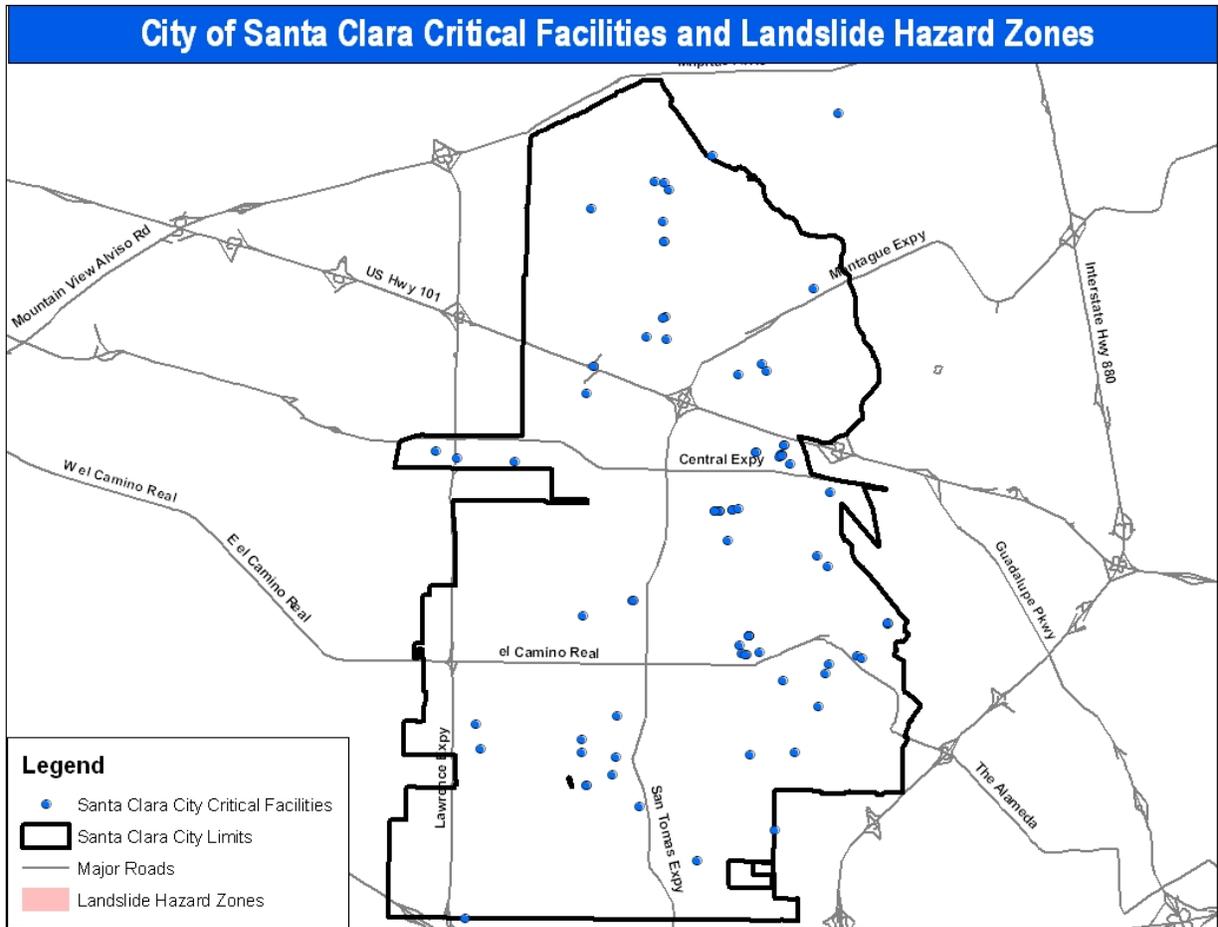
Source: CA Geological Survey, State of CA Department of Conservation

There are no critical facilities located in a fault rupture hazard zone in Santa Clara, CA.



The City of Santa Clara

Earthquake Induced Landslides



Source: Santa Clara Planning Office, CA State Department of Conservation

There are no critical facilities located in a landslide hazard zone in Santa Clara, CA.

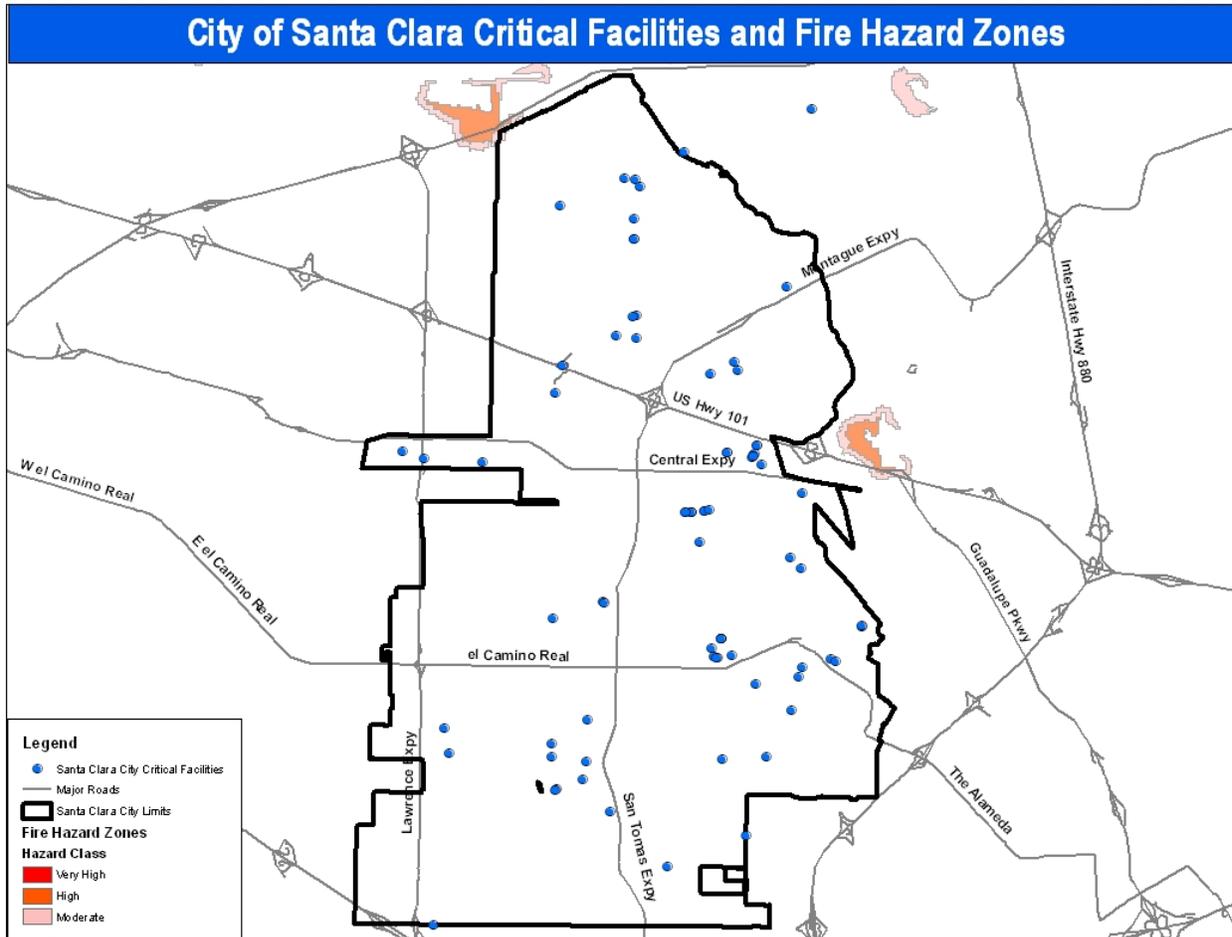
20.4.2.2.2 Infrastructure Failure

The City of Santa Clara does not have any additional unique concerns or vulnerabilities regarding the hazard of infrastructure failure as presented in Section 4.



The City of Santa Clara

20.4.2.2.3 Wildfire



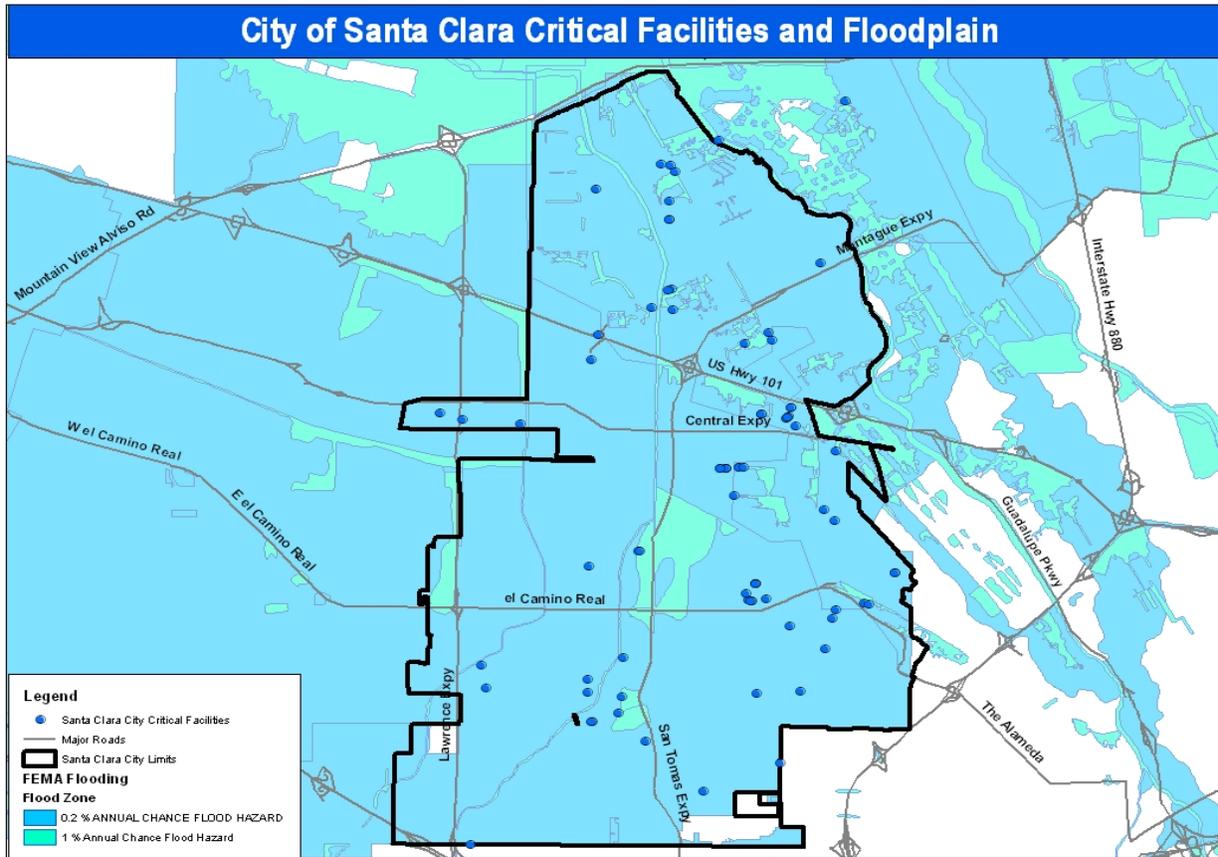
Source: CA Department of Forestry and Fire Protection

There are no critical facilities located in a fire hazard zone in Santa Clara, CA.



The City of Santa Clara

20.4.2.2.4 Flooding



Source: FEMA- Santa Clara County DFIRM, 2009

Critical Facility	Flood Zone (% annual chance)	Bldg Insured Value	Contents Insured Value
SVP (TAS)	1%	\$291,000	\$3,820,000
Northside Pump Station	1%		
Fire Station #10	1%	\$1,500,000	\$280,000
SVP (NAJ)	1%	\$0	\$445,000
Central Park Library	1%	\$26,000,000	\$12,000,000
Youth Activity Center	1%	\$2,800,000	\$95,000
Teen Center	1%	\$2,300,000	\$125,000
International Swim Center	1%	\$6,000,000	\$75,000
David's Restaurant/Golf & Tennis Facility	.2%		
David's Banquet Facility	.2%		



The City of Santa Clara

Critical Facility	Flood Zone (% annual chance)	Bldg Insured Value	Contents Insured Value
SVP (URA)	.2%	\$290,000	\$5,400,000
Convention Center	.2%	\$50,000,000	\$2,000,000
SVP (CEN)	.2%	\$208,000	\$3,970,000
SVP (KRS)	.2%	\$240,000	\$4,520,000
SVP (GIA)	.2%	\$43,426	\$23,783,434
SVP (LAF)	.2%	\$193,000	\$4,890,000
Building Maintenance Shop	.2%	\$750,000	\$250,000
SVP (NRS)	.2%	\$300,000	\$19,068,600
SVP (SRS)	.2%	\$275,000	\$5,300,000
SVP (FIB)	.2%	\$0	\$665,000
SVP (RAY)	.2%		
SVP (FGCS)	.2%		
Northside Tanks/Booster Pumps	.2%		
Rabello Pump Station	.2%		
Police Pistol Range	.2%	\$2,800,000	\$180,000
Fire Station #2	.2%	\$1,000,000	\$145,000
Street Corporation Yard	.2%	\$6,000,000	\$400,000
Fire ToWater wellr	.2%	\$48,000	\$0
Walsh Elevated Tank	.2%		
Fire Training Center	.2%	\$600,000	\$157,000
Emergency Operations Ctr.	.2%	\$5,000,000	\$1,000,000
SVP (WAL)	.2%	\$0	\$3,675,000
SVP (CCA)	.2%	\$61,000	\$440,000
SVP (MAT)	.2%	\$240,000	\$2,760,000
Kaiser Pump Station	.2%		
Fire Station #3	.2%	\$520,000	\$70,000
SVP (DUA)	.2%		
SVP (DVR)	.2%		
Parks Service Center	.2%	\$1,200,000	\$400,000
Community Services Bldg.	.2%	\$440,000	\$0
SVP (ANNEX)	.2%		
Old Police Administration	.2%	\$5,500,000	\$105,000
Senior Center	.2%	\$6,200,000	\$200,000
Berman Building	.2%	\$3,000,000	\$0
Bldg. Maint. Warehouse	.2%	\$500,000	\$150,000
Police Administration	.2%	\$18,000,000	\$4,500,000



The City of Santa Clara

Critical Facility	Flood Zone (% annual chance)	Bldg Insured Value	Contents Insured Value
Fire Prevention	.2%	\$380,000	\$65,000
Water wellll 3-02	.2%		
Headen-Inman House	.2%	\$500,000	\$0
Pavilions (4)	.2%	\$500,000	\$0
Utility Yard	.2%	\$9,400,000	\$450,000
SVP (ZEN)	.2%	\$202,000	\$3,670,000
SVP (COG)	.2%	\$1,141,671	\$8,397,934
Court House	.2%	\$2,000,000	\$500,000
Triton Museum	.2%	\$6,000,000	\$0
Jamison-Brown House	.2%	\$800,000	\$0
Water wellll 11	.2%		
Fire Station #4	.2%	\$590,000	\$80,000
Downtown Tank/Booster Pumps	.2%		
SVP (BRO)	.2%	\$193,000	\$3,540,000
Serra Tanks/Booster Pumps	.2%		
Fire Station #9	.2%	\$4,200,000	\$160,000
Fire Station #5	.2%	\$900,000	\$125,000
SVP (HOM)	.2%	\$0	\$3,295,000
Community Rec. Center	.2%	\$11,000,000	\$400,000
Rivermark Comm. Policing	.2%		
Fire Station #1	.2%	\$4,100,000	\$525,000
MiElectrical substationion Library	.2%	\$2,500,000	\$1,500,000
BerryeElectrical substationa Adobe	.2%	\$128,000	\$0
Harris-LaElectrical substation House	.2%	\$1,000,000	\$0
Cemetary	.2%	\$750,000	\$80,000
Fire Station #7	.2%	\$1,000,000	\$150,000
Water wellll 17-02	.2%		
SVP (Electrical substations)	.2%		
Fire Station #6	.2%	\$800,000	\$110,000
SVP (AGN)	.2%	\$0	\$3,675,000
SVP (JUL)	.2%	\$240,000	\$2,730,000
Fire Station #8	.2%	\$1,150,000	\$160,000

Sea Level Rise

Several facilities in Santa Clara may be impacted by sea level rise as shown in Table 20-14.



The City of Santa Clara

Table 20-14: Critical Facilities at risk to Sea Level Rise

Facility Name	Address	16 inch rise	55 inch rise
Fire Station #10	5111 Star and Stripes Way		X
Convention Center	5001 Great America Parkway		X
SVP (TAS)	2550 Tasman Dr.	X	X
SVP (Electrical substations)	810 Thomas Foon Chew Way		X
Northside Pump Station	4495 N. 1st St.	X	X

20.4.2.2.5 Drought

When the City of Santa Clara and the surrounding area began experiencing a drought in the early 1990's, the City approved and adopted the Water Use Prohibition and Restrictions on April 13, 1993, which restricted the manner in which water was utilized. Once the area was no longer in a drought, the document was amended.

The Drought Water Use Plan and City actions will be updated as part of the 2010 urban water management plan, which will be adopted by the City Council before the end of fiscal year 2010-2011.

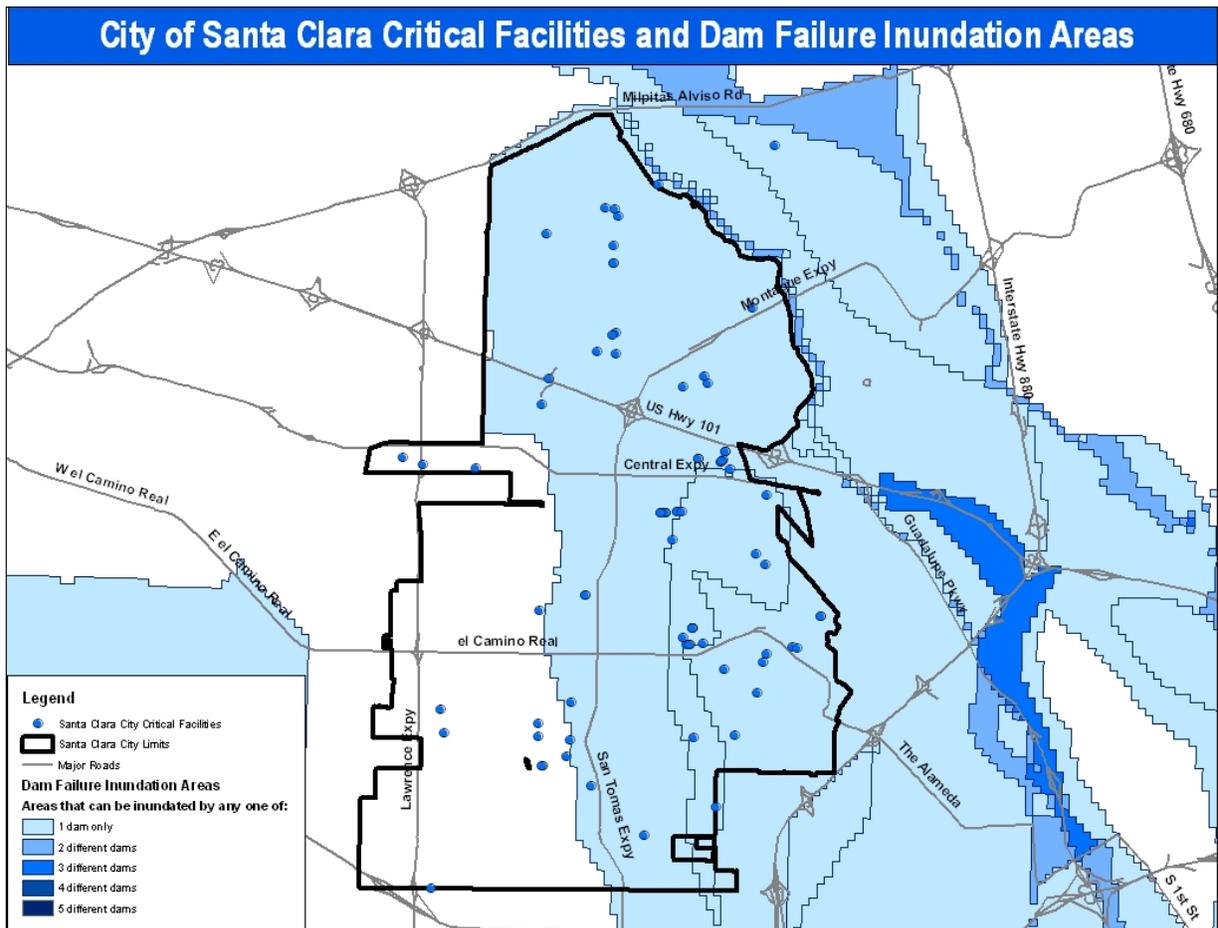
20.4.2.2.6 Solar Storm

All populations, facilities, and assets are equally at risk to impact from solar storm events. The City of Santa Clara does not have any unique concerns regarding the hazard of solar storm as presented in Section 4.



The City of Santa Clara

20.4.2.2.7 Dam Failure



Source: ABAG, 1995. Dam data from State of California Office of Emergency Services

Critical Facility	Dam Failure Inundation Area	Bldg Insured Value	Contents Insured Value
Fire Station #10	1	\$1,500,000	\$280,000
SVP (NAJ)	1	\$0	\$445,000
David's Restaurant/Golf & Tennis Facility	1		
David's Banquet Facility	1		
SVP (URA)	1	\$290,000	\$5,400,000
Convention Center	1	\$50,000,000	\$2,000,000



The City of Santa Clara

Critical Facility	Dam Failure Inundation Area	Bldg Insured Value	Contents Insured Value
SVP (CEN)	1	\$208,000	\$3,970,000
SVP (KRS)	1	\$240,000	\$4,520,000
SVP (GIA)	1	\$43,426	\$23,783,434
SVP (LAF)	1	\$193,000	\$4,890,000
Building Maintenance Shop	1	\$750,000	\$250,000
SVP (NRS)	1	\$300,000	\$19,068,600
SVP (SRS)	1	\$275,000	\$5,300,000
SVP (FIB)	1	\$0	\$665,000
SVP (RAY)	1		
SVP (FGCS)	1		
Northside Tanks/Booster Pumps	1		
Rabello Pump Station	1		
Police Pistol Range	1	\$2,800,000	\$180,000
Fire Station #2	1	\$1,000,000	\$145,000
Street Corporation Yard	1	\$6,000,000	\$400,000
Fire ToWater wellr	1	\$48,000	\$0
Walsh Elevated Tank	1		
Fire Training Center	1	\$600,000	\$157,000
Emergency Operations Ctr.	1	\$5,000,000	\$1,000,000
SVP (WAL)	1	\$0	\$3,675,000
SVP (CCA)	1	\$61,000	\$440,000
SVP (MAT)	1	\$240,000	\$2,760,000
Youth Activity Center	1	\$2,800,000	\$95,000
Teen Center	1	\$2,300,000	\$125,000
SVP (DUA)	1		
SVP (DVR)	1		
Parks Service Center	1	\$1,200,000	\$400,000
Community Services Bldg.	1	\$440,000	\$0
SVP (ANNEX)	1		
Old Police Administration	1	\$5,500,000	\$105,000
Senior Center	1	\$6,200,000	\$200,000
Berman Building	1	\$3,000,000	\$0
Bldg. Maint. Warehouse	1	\$500,000	\$150,000
Police Administration	1	\$18,000,000	\$4,500,000
Fire Prevention	1	\$380,000	\$65,000
Water wellll 3-02	1		



The City of Santa Clara

Critical Facility	Dam Failure Inundation Area	Bldg Insured Value	Contents Insured Value
Headen-Inman House	1	\$500,000	\$0
Pavilions (4)	1	\$500,000	\$0
Utility Yard	1	\$9,400,000	\$450,000
SVP (TAS)	1	\$291,000	\$3,820,000
SVP (COG)	1	\$1,141,671	\$8,397,934
Court House	1	\$2,000,000	\$500,000
Triton Museum	1	\$6,000,000	\$0
Jamison-Brown House	1	\$800,000	\$0
Water well 11	1		
Fire Station #4	1	\$590,000	\$80,000
Downtown Tank/Booster Pumps	1		
SVP (BRO)	1	\$193,000	\$3,540,000
Rivermark Comm. Policing	1		
Fire Station #1	1	\$4,100,000	\$525,000
MiElectrical substationion Library	1	\$2,500,000	\$1,500,000
BerryeElectrical substationa Adobe	1	\$128,000	\$0
Harris-LaElectrical substation House	1	\$1,000,000	\$0
Cemetary	1	\$750,000	\$80,000
SVP (Electrical substations)	1		
Fire Station #6	1	\$800,000	\$110,000
SVP (AGN)	1	\$0	\$3,675,000
SVP (JUL)	1	\$240,000	\$2,730,000
Fire Station #8	1	\$1,150,000	\$160,000
Northside Pump Station	1		

20.4.2.2.8 Disease Outbreak

All populations, facilities, and assets are equally at risk to impact from disease outbreak. The City of Santa Clara does have a comprehensive Continuity of Operations Plan which has specific actions for disease mitigation such as an outbreak of Pandemic Influenza.

20.4.2.2.9 Freeze

All populations, facilities, and assets are equally at risk to impact from freeze occurrences. During periods of cold weather, the City of Santa Clara opens up city facilities as warming shelters during period of normal business hours.



The City of Santa Clara

20.4.2.2.10 Wind

All populations, facilities, and assets are equally at risk to impact from high winds. The City of Santa Clara does not have any unique concerns regarding the hazard of wind as presented in Section 4.

20.4.2.2.11 Heat

All populations, facilities, and assets are equally at risk to impact from extreme heat events. The City of Santa Clara opens up city facilities as cooling shelters during period of normal business hours when there is a prolonged heat event.

20.4.2.2.12 Agricultural Pest

The City of Santa Clara does not have any unique concerns regarding the hazard of agricultural pest as presented in Section 4.

20.4.2.2.13 Thunder and Lightning

All populations, facilities, and assets are equally at risk to impact from thunder and lightning events. The City of Santa Clara does not have any unique concerns regarding the hazard of thunder and lightning as presented in Section 4.

20.4.2.2.14 Siltation – Bay Area

The City of Santa Clara does not have any unique concerns regarding the hazard of siltation as presented in Section 4.

20.4.2.2.15 Tornado

All populations, facilities, and assets are equally at risk to impact from tornado occurrences. The City of Santa Clara does not have any unique concerns regarding the hazard of tornado as presented in Section 4.

20.4.2.2.16 Hazardous Materials

Hazardous Materials spills are not of particular concern to the City of Santa Clara as the City has a long history of successful mitigation practices. For example, during and after the October 1989 Loma Prieta earthquake, a section of the San Francisco Bay Bridge fell into the Bay. Apartment houses collapsed in San Francisco. In Santa Clara County, residents looked out their front windows and saw a wave of water rising above the rooftop of their neighbor's home across the street and emanating from their back yard swimming pool. With all this earth



The City of Santa Clara

movement, the Santa Clara Fire Department responded to and abated only a few minor hazardous materials releases. A few months following the earthquake, the Hazardous Materials Administrator received a phone call from US EPA Region 9 in San Francisco. They wanted to know why the Fire Department had not called them for hazardous materials mutual aid following the earthquake. They asked if the City did not know the EPA had crews ready to respond to Silicon Valley, or if the City did not have their phone number. The Hazardous Materials Administrator assured them that their phone number was available, but explained that there had been no need for hazardous materials mutual aid. Requirements of the Model Ordinances such as secondary containment and monitoring of hazardous materials kept most hazardous materials from causing harm. The US EPA person requested and participated in a meeting with the Hazardous Materials Administrator and Fire Chief in the Chief's office to learn more about the Hazardous Materials Ordinances and their mitigating impact during the earthquake.

20.4.2.2.17 Landslide and Debris Flow

Landslide and Debris Flow is not of particular concern to the City of Santa Clara.

20.4.2.2.18 Other Hazards

Land Subsidence is not of particular concern to the City of Santa Clara.

Expansive Soils are not of particular concern to the City of Santa Clara.

Hailstorms are not of particular concern to the City of Santa Clara.

Tsunami is not a hazard of concern for the City of Santa Clara.

Volcano eruptions are not a hazard of concern for the City of Santa Clara.

20.5 MITIGATION ACTIONS

20.5.1 Primary Concerns

Based on the exposure analysis, the City of Santa Clara's critical facilities are at significant risk to potential ground shaking and flood (including dam inundation). The City of Santa Clara's primary objective is to upgrade the City's storm water pump stations.

20.5.2 Mitigation Actions

In addition to supporting the Countywide mitigation actions presented in Section 5 of the County Annex through participation in the Local Planning Team, the City of Santa Clara has identified a City specific mitigation action. The City's primary objective is to upgrade the City's storm water pump stations. As stated in Section 20.3.1.3: Current Projects, the City is currently trying to upgrade the pump stations; however, this can be a costly task which requires financial planning. The City is in hopes of requesting pre-disaster mitigation grant funding as a possible solution for upgrades and equipment replacement for the aging infrastructure during these difficult economic



The City of Santa Clara

times. Therefore, the City identified the below mitigation action to continue to improve and upgrade the City's storm drain system.

Problem Statement: Storm drain water backs up into the City as creek/river waters rise.		
Project Description: Storm Drain System Improvement Plan		
Corresponding ABAG Strategy Number:		
Applicable Hazards		
<p><u>Significant</u></p> <p>Earthquakes</p> <p><input type="checkbox"/> Ground Shaking</p> <p><input type="checkbox"/> Liquefaction</p> <p><input type="checkbox"/> Surface Rupture</p> <p><input type="checkbox"/> Landslides</p> <p>Infrastructure Failure</p> <p><input type="checkbox"/> Electrical System</p> <p><input type="checkbox"/> Energy System</p> <p><input type="checkbox"/> Telecommunication System</p> <p><input type="checkbox"/> Transportation System</p> <p><input type="checkbox"/> Waste Water System</p> <p><input type="checkbox"/> Water System</p> <p><input type="checkbox"/> Delta Levee Failure</p> <p><input type="checkbox"/> Wildfire</p>	<p><u>Moderate</u></p> <p><input checked="" type="checkbox"/> Flood</p> <p><input type="checkbox"/> Drought</p> <p><input type="checkbox"/> Solar Storm</p> <p><input type="checkbox"/> Dam Failure</p> <p><input type="checkbox"/> Disease and Outbreak</p> <p><input type="checkbox"/> Freeze</p> <p><input type="checkbox"/> Wind (high winds)</p> <p><input type="checkbox"/> Extreme Heat</p> <p><input type="checkbox"/> Agricultural Pests</p> <p><input type="checkbox"/> Thunder / Lightening Storms</p> <p><input type="checkbox"/> Bay Area Silting</p> <p><input type="checkbox"/> Tornado</p> <p><input type="checkbox"/> Hazardous Materials (Chemical/Biological) Spills</p> <p><input type="checkbox"/> Landslide and Debris Flow</p>	<p><u>Limited</u></p> <p><input type="checkbox"/> Land Subsidence</p> <p><input type="checkbox"/> Expansive Soils</p> <p><input type="checkbox"/> Hailstorm</p> <p><input type="checkbox"/> Tsunami</p> <p><input type="checkbox"/> Volcano</p>
Potential Funding Sources: Pre-Mitigation Disaster Funding		
Responsible Department: City of Santa Clara Public Works Department		
Target Completion Date: 2015		
Additional Comments / Status Report: Project not yet undertaken		



The City of Santa Clara

Additional Mitigation Projects

The City of Santa Clara has an upcoming Capitol Improvement Project for recoating the at grade steel tanks to extend the useful life of these assets.

The City's Downtown Tank is a welded steel water storage tank built in 1975 with a capacity of 4.5 million gallons. The original tank coating has reached the end of its useful life and is in need of replacement. The project scope of work includes abrasive blasting and recoating of the interior and exterior of the tank, replacement of the existing ladders and water level indicator, upgrade of the existing access hatches, piping modifications, and other safety improvements.

A Water Tank Improvement Project was recently awarded by the Santa Clara City Council on March 29, 2011. This Water Capital Improvement Multi-year Plan is for like work on the remaining five at-grade steel water storage tanks.

20.6 PLAN MAINTENANCE

The City of Santa Clara is committed to monitoring and updating this plan annex, as required by the Disaster Mitigation Act of 2000, by participating in a multi-agency effort with ABAG and other agencies to develop a multi-jurisdictional plan. The Office of Emergency Services will ensure that monitoring of this Annex will occur. The plan will be monitored on an on-going basis. Triggers that may be used to signal a need for an update will include major disasters affecting our community, legal changes, notices from ABAG as the lead agency in this process, etc. This Annex will be a discussion item by city department heads once each year. At that meeting, the Annex will be evaluated in light of technological and political changes or other significant events during the past year. This group will be responsible for determining if the plan should be updated.

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. All public comments will be reviewed and evaluated. Publicly initiated changes will be integrated into the plan updates as necessary.

The City Planning Director will contact ABAG four years after this plan is approved to ensure that ABAG plans to undertake the plan update process. If so, the City again plans to participate in the multi-jurisdictional plan. If ABAG is unwilling or unable to act as the lead agency in the multi-jurisdictional effort, other agencies will be contacted, including the County's Office of Emergency Services. Counties should then work together to identify another regional forum for developing a multi-jurisdictional plan.



The City of Santa Clara

Integration with Local Planning Mechanisms

During the period of time between the adoption of the 2005 Local Hazard Mitigation Plan and the preparation for the 2010 Local Hazard Mitigation Plan (LHMP), the 2005 LHMP was incorporated as an annex to the City's Emergency Operations Plan. At that time and every year during the preparation for the City's Annual Disaster Exercise, the LHMP has been available to the thirty-five department and division heads for review. The 2005 LHMP was also incorporated into the Safety Section of the City's General Plan and has been available for review by all coordinating staff and the public. Upon adoption of this 2011 Annex, the City's planning department will integrate this updated plan into the Safety Section of the City's General Plan.



The City of Santa Clara

20.7 CITY OF SANTA CLARA APPENDIX

20.7.1 City of Santa Clara Attachment 1: City of Santa Clara Outreach Materials

Opportunity for public comments on the draft mitigation strategies was provided at a public meeting at the City of Santa Clara Planning Commission on September 3, 2009 and advertised on the City of Santa Clara website beginning on September 21, 2009. The draft mitigation strategies were also published on the ABAG website for public viewing. Copies of the internet posting, the Planning Meeting notice, and other outreach materials are included in this Attachment.



INTEROFFICE MEMORANDUM
City of Santa Clara

DATE: September 3, 2009

TO: Planning Commission

FROM: Director of Planning & Inspection

SUBJECT: Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area

The Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area (Plan) is a document put together by the Association of Bay Area Governments (ABAG) that identifies hazards and other risks potentially impacting the nine Bay Area cities. The City of Santa Clara creates an “annex” to the plan, identifying those hazards and risks pertinent to our City, and the programs and plans in place or under consideration that will mitigate these risks or provide a strategy for disaster recovery. The Plan is used by all departments in the City to plan for and mitigate potential hazards including natural disasters, man made hazards and potential security threats. This multi-jurisdictional effort should not only maintain and enhance the disaster resistance of the region, but also fulfill the requirements of the Disaster Mitigation Act of 2000.

The Plan is updated every five years –most recently updated in 2005. In August and September 2009, representatives from the Fire, Police, Planning and Inspection, Public Works and Utilities Departments met to discuss and identify the City’s policies and programs appropriate to be included in this plan. The areas of focus are infrastructure, health care, housing, economy, government, schools and education, environment and land use.

ABAG requires that the public have an opportunity to weigh in on the City’s annex to the plan, in a public meeting and through a website. City staff asks that the Planning Commission provide an opportunity for comments on the annex. The Draft Multi-Jurisdictional Local Hazard Mitigation Plan can be found at <http://quake.abag.ca.gov/mitigation/> and the forms for public comment are attached.

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Natural Hazard Mitigation Plan Review

Help Make Our City Safer

The Federal Emergency Management Agency's (FEMA) Local Mitigation Plan requirements identify criteria that allow for multi-jurisdictional mitigation plans where issues are better resolved by evaluating natural hazards at the local level. As a result, the City of Santa Clara has agreed to participate in the Association of Bay Area Governments (ABAG) Multi-jurisdictional Natural Hazard Mitigation Planning effort.

Santa Clara understands that in order to make our City safer, we must engage in the following planning process:

- Identification of natural hazards unique to the jurisdiction and not addressed in the master planning document;
- The conduct of a vulnerability analysis and an identification of risks, where they differ from the general planning area;
- The formulation of mitigation goals responsive to public input and development of mitigation actions complementary to those goals. A range of actions must be identified specific for each jurisdiction;
- Demonstration that there has been proactively offered an opportunity for participation in the planning process by all community stakeholders (examples of participation include relevant involvement in any planning process, attending meetings, contributing research, data, or other information, commenting on drafts of the plan, etc.); and
- Documentation of an effective process to maintain and implement the plan; and,
- Formal adoption of the Multi-jurisdictional Hazard Mitigation Plan by the jurisdiction's governing body (each jurisdiction must officially adopt the plan).

Here's Where Santa Clara Needs your Help...

In order to make this process more effective, please take a moment to review the [Natural Hazard Mitigation Plan](#) spreadsheet.

If you have any questions or comments, please forward them to the Office of Emergency Services Coordinator at gsawyer@santaclaraca.gov or call 615-4954 by September 28, 2009

[[Go back](#)]

Bartshire, Corinne

From: Gene Sawyer [GSawyer@santaclaraca.gov]
Sent: Wednesday, March 28, 2012 5:11 PM
To: Bartshire, Corinne
Subject: FW: City of Santa Clara Local Hazard Mitigation Plan Draft Review

3
Santa Clara University
Bill Wilson House

From: Gene Sawyer
Sent: Tuesday, May 10, 2011 1:28 PM
To: Michael Taheny; 'Janet Childs'
Subject: City of Santa Clara Local Hazard Mitigation Plan Draft Review

Hello Janet and Mike:

I am pleased to invite you to review the Public Review Draft of the Santa Clara County Hazard Mitigation Plan 2011 Update and City of Santa Clara Annex in particular,(Attached). Input from you or your organization will be invaluable to increasing disaster resiliency in our community.

The purpose of the plan is to identify hazard threats to Santa Clara County and prioritize methods for reducing risks of future damage through specific mitigation actions. Preparation of this plan with approval from the California Emergency Management Agency (Cal EMA) and Federal Emergency Management Agency (FEMA) enables the County and participating jurisdictions to apply for mitigation grant funds per the Disaster Mitigation Act of 2000. You can read more information about this program and mitigation grant funding on the Cal EMA Hazard Mitigation Portal (<http://hazardmitigation.calema.ca.gov/>).

The review draft has been submitted to Cal EMA and is undergoing review for compliance with the Disaster Mitigation Act of 2000. Upon receiving Cal EMA & FEMA's comments we will prepare a final plan update for adoption by the City Council. At this time, we welcome comments from your agencies and the general public. Comments/suggestions for improvement may be submitted directly to me at the contact information below. **Comments submitted before May 31, 2011 will be reviewed and integrated into the final plan for adoption, as appropriate.** Comments submitted after that date will be recorded for future updates to the plan.

Please forward this message to fellow residents and community members of the City of Santa Clara. Your questions and comments may be submitted to the County's consultant, Corinne Bartshire at cbartshire@dewberry.com or (415) 295-7116. We sincerely appreciate your time and cooperation in helping our community become more resilient.

Thank you for your participation!

Gene Sawyer
City of Santa Clara Office of Emergency Services
Office 408-615-4954

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Bartshire, Corinne

From: Gene Sawyer [GSawyer@santaclaraca.gov]
Sent: Wednesday, March 28, 2012 5:11 PM
To: Bartshire, Corinne
Subject: FW: City of Santa Clara Local Hazard Mitigation Plan Draft Review

2

From: Gene Sawyer
Sent: Tuesday, May 10, 2011 1:35 PM
To: 'gfelix@cisco.com'
Subject: City of Santa Clara Local Hazard Mitigation Plan Draft Review

Hello Ms. Felix:

Thank you for expressing an interest in reviewing the Santa Clara Local Hazard Mitigation Plan Draft.

I am pleased to invite you to review the Public Review Draft of the Santa Clara County Hazard Mitigation Plan 2011 Update and City of Santa Clara Annex in particular,(Attached). Input from you or your organization will be invaluable to increasing disaster resiliency in our community.

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Bartshire, Corinne

From: Gene Sawyer [GSawyer@santaclaraca.gov]
Sent: Wednesday, March 28, 2012 5:13 PM
To: Bartshire, Corinne
Subject: FW: Local Hazard Mitigation Plan - OC, Drew Pickering Contact

4
Owens Corning

From: Gene Sawyer
Sent: Monday, May 16, 2011 2:54 PM
To: 'Pickering, Andrew K'
Subject: RE: Local Hazard Mitigation Plan - OC, Drew Pickering Contact

Hello Andrew:

As I was creating this plan I thought that sending a copy to the Owens Corning for review would be a good choice.

I am pleased to invite you to review the Public Review Draft of the Santa Clara County Hazard Mitigation Plan 2011 Update and City of Santa Clara Annex in particular,(Attached). Input from you or your organization will be invaluable to increasing disaster resiliency in our community.

The purpose of the plan is to identify hazard threats to Santa Clara County and prioritize methods for reducing risks of future damage through specific mitigation actions. Preparation of this plan with approval from the California Emergency Management Agency (Cal EMA) and Federal Emergency Management Agency (FEMA) enables the County and participating jurisdictions to apply for mitigation grant funds per the Disaster Mitigation Act of 2000. You can read more information about this program and mitigation grant funding on the Cal EMA Hazard Mitigation Portal (<http://hazardmitigation.calema.ca.gov/>).

The review draft has been submitted to Cal EMA and is undergoing review for compliance with the Disaster Mitigation Act of 2000. Upon receiving Cal EMA & FEMA's comments we will prepare a final plan update for adoption by the City Council. At this time, we welcome comments from Owens Corning, and the general public. Comments/suggestions for improvement may be submitted directly to me at the contact information below. **Comments submitted before May 31, 2011 will be reviewed and integrated into the final plan for adoption, as appropriate.** Comments submitted after that date will be recorded for future updates to the plan.

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Gene Sawyer
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Office 408-615-4954
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From: Pickering, Andrew K [<mailto:Andrew.Pickering@owenscorning.com>]
Sent: Thursday, May 12, 2011 9:41 AM
To: Gene Sawyer
Subject: Local Hazard Mitigation Plan - OC, Drew Pickering Contact

Drew Pickering
Safety Leader
ISB Santa Clara
(408) 235-1349
andrew.pickering@owenscorning.com

The information contained in this communication and its attachment(s) is intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: <http://www.owenscorning.com/emailfooter.html>

Bartshire, Corinne

From: Gene Sawyer [GSawyer@santaclaraca.gov]
Sent: Wednesday, March 28, 2012 5:10 PM
To: Bartshire, Corinne
Subject: FW: City of Santa Clara Local Hazard Mitigation Plan Draft Review

[Here's one](#)

From: Van Dorn, Steve [<mailto:Steve.VanDorn@santaclara.org>]
Sent: Wednesday, May 11, 2011 9:50 AM
To: Gene Sawyer
Subject: RE: City of Santa Clara Local Hazard Mitigation Plan Draft Review

Thanks for sharing Gene. We will pass along to the appropriate Chamber members for input.
Best,

Steve Van Dorn
President & CEO
**Santa Clara Chamber of Commerce and
Convention-Visitors Bureau**
1850 Warburton Ave.
Santa Clara, CA 95050
408-380-1231 Direct
408-244-8244
408-244-7830 Fax
steve.vandorn@santaclara.org
www.santaclarachamber.org

 <http://www.facebook.com/SantaClaraCA>

 <http://www.twitter.com/SantaClaraCA>

From: Gene Sawyer [<mailto:GSawyer@santaclaraca.gov>]
Sent: Tuesday, May 10, 2011 1:50 PM
To: Van Dorn, Steve
Subject: FW: City of Santa Clara Local Hazard Mitigation Plan Draft Review

Hello Steve:

As I was creating this plan I thought that sending a copy to the Chamber for review would be a good choice.

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The City of Santa Clara

20.7.2 City of Santa Clara Attachment 2: City of Santa Clara Strategies 2010

In preparation of the 2005 plan, the City helped ABAG in the development and review of the comprehensive regional list of mitigation strategies. Similarly, the City participated in the revision of the regional strategies for development of this annex. Appendix G of Taming Natural Hazards presents a summary list of mitigation strategies with regional priorities and the hazards mitigated. The City ranked those strategies in a spreadsheet provided by ABAG. This is a summary of those rankings.

On-Going Mitigation Strategy Programs

The City of Santa Clara 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.

- 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. (GOVT-a-5) ;
- Ensure that new government-owned facilities comply with and are subject to the same or more stringent regulations as imposed on privately-owned development. (GOVT-a-10);
- 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. (GOVT-a-11);
- 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. (GOVT-a-12);
- 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. (GOVT-a-13);
- 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. (GOVT-b-1);
- 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). (GOVT-b-2);
- Establish a goal for the resumption of local government services that may vary from function to function. (GOVT-b-3);
- 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



The City of Santa Clara

department operations are disrupted, as well as other essential electronic files. (GOVT-b-4);

- Encourage your employees to have a family disaster plan. (GOVT-c-2);
- Offer CERT/NERT-type training to your employees. (GOVT-c-3);
- Ensure that fire, police, and other emergency personnel have adequate radios, breathing apparatuses, protective gear, and other equipment to respond to a major disaster. (GOVT-c-6);
- Development of interoperable communications for first responders from cities, counties, special districts, state, and federal agencies. (GOVT-c-7);
- 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. (GOVT-c-8);
- 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)
- 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)

JURISDICTION: SantaClaraCity

Strategy	Priority	Responsible Agency or Department	Comments
ECON-a-1	NYC	Planning Department	
ECON-a-2	NYC	Planning Department	
ECON-b-1	Existing	Building Inspection	
ECON-b-2	Existing	Building Inspection & the 2009 Code (not yet approved)	
ECON-b-3	NYC	Building Inspection	
ECON-b-4	NYC	Building Inspection	
ECON-b-5	NYC	Building Inspection	
ECON-b-6	NYC	Building Inspection	
ECON-b-7	NYC	Building Inspection	
ECON-b-8	NYC	Building Inspection	
ECON-b-9	Existing	Building Inspection	
ECON-c-1	Existing	Building Inspection	
ECON-c-2	Existing Underfunded	Building Inspection	
ECON-c-3	NYC	Building Inspection	
ECON-c-4	NYC	Building Inspection	
ECON-d-1	NYC	Building Inspection	
ECON-d-2	NYC	Building Inspection	
ECON-d-3	NYC	Building Inspection	
ECON-e-1	n/a		
ECON-e-2	n/a		
ECON-e-3	n/a		
ECON-e-4	Existing	Building Inspection & Fire Department	
ECON-e-5	Existing	Fire Department	
ECON-e-6	n/a		
ECON-e-7	n/a		
ECON-e-8	n/a		
ECON-e-9	Existing	Fire Department	
ECON-e-10	Existing	Fire Department	
ECON-e-11	NYC		
ECON-e-12	n/a		
ECON-e-13	NYC		
ECON-f-1	Existing	Public Works, Building Inspection, & Planning Department	
ECON-f-2	Existing	Planning Department	
ECON-f-3	Existing	Public Works, Street Department, & Planning Department	
ECON-f-4	Existing	Street Department & Santa Clara Valley Water District	
ECON-f-5	Existing	City Manager's Office & Santa Clara Valley Water District	
ECON-f-6	Existing	Public Works, Building Inspection, & Planning Department	
ECON-f-7	Existing	Public Works, & Planning Department	
ECON-f-8	Moderate		
ECON-f-9	NYC		
ECON-g-1	n/a		

ECON-g-2	n/a		
ECON-h-1	Existing	Building Inspection	
ECON-h-2	Existing	Building Inspection	
ECON-h-3	NYC		
ECON-i-1	Existing	Building Inspection	
ECON-i-2	NYC		
ECON-i-3	NYC		
ECON-i-4	NYC		
ECON-i-5	NYC		
ECON-i-6	NYC		
ECON-j-1	Existing	Building Inspection	
ECON-j-2	Existing Underfunded	Office of Emergency Services	
ECON-j-3	Existing Underfunded	Santa Clara County Office of Emergency Services	
ECON-j-4	Existing Underfunded	Building Inspection & Fire Department	
ECON-j-5	Existing Underfunded	Fire Department	
ECON-j-6	n/a		
ECON-j-7	Existing	Building Inspection	
ECON-j-8	Existing	Street Department	
ECON-j-9	n/a		
ECON-j-10	Existing Underfunded	Fire Department	
ECON-j-11	Existing Underfunded	Fire Department	
ECON-j-12	n/a		
ECON-j-13	Existing	Santa Clara County Office of Emergency Services	
EDUC-a-1	n/a		
EDUC-a-2	n/a		
EDUC-a-3	n/a		
EDUC-a-4	n/a		
EDUC-a-5	n/a		
EDUC-a-6	NYC		
EDUC-b-1	Existing	Office of Emergency Services	
EDUC-b-2	n/a		Not applicable for a city
EDUC-b-3	n/a		Not applicable for a city
EDUC-c-1	Under Study		Office of Emergency Services
EDUC-c-2	Under Study		Office of Emergency Services
EDUC-c-3	Under Study		Office of Emergency Services
EDUC-c-4	Under Study		Office of Emergency Services
EDUC-c-5	Under Study		Office of Emergency Services
EDUC-c-6	Under Study		Office of Emergency Services
EDUC-c-7	NYC		Office of Emergency Services
EDUC-d-1	Existing Underfunded		Police & Fire Departments
EDUC-d-2	Existing	Office of Emergency Services	

ENVI-a-1	Existing	Planning Department	
ENVI-a-2	Existing	Planning Department	
ENVI-a-3	Existing	Planning Department	
ENVI-a-4	Under Study	Santa Clara Valley Water District	
ENVI-a-5	Under Study	Santa Clara Valley Water District	
ENVI-a-6	Existing	Public Works, Street Department, & Storm Division	
ENVI-a-7	Existing	Public Works, Street Department, & Storm Division	
ENVI-a-8	Existing	Building Inspection, Planning Department, & Fire Department	
ENVI-a-9	Existing	Fire Department	
ENVI-a-10	Existing	City Manager's Department, Fire Department, Street Department	
ENVI-a-11	Existing	Public Works, Planning Department, Building Inspection, Engineering Department	
ENVI-a-12	n/a		
ENVI-a-13	Existing Underfunded	Street Department, Strom Division, & Santa Clara Valley Water District	
ENVI-b-1	Existing	Planning	
ENVI-b-2	Existing Underfunded	Planning, Silicon Valley Power	
ENVI-b-3	Existing	Planning	
ENVI-b-4	Existing	Planning	
ENVI-b-5	Existing Underfunded	Silicon Valley Power	
ENVI-b-6	Existing	Planning, Silicon Valley Power	
ENVI-b-7	Under Study	Purchasing	
ENVI-b-8	Existing	Planning	
ENVI-b-9	Existing	Citywide	
ENVI-b-10	Under Study	Water & Sewer Department	
ENVI-b-11	Existing	Citywide	Citywide, Construction Debris Recycling Ordinance
ENVI-b-12	Existing	Citywide	
ENVI-b-13	Existing		City Arbor Day Event
ENVI-c-1	n/a		
ENVI-c-2	n/a		
ENVI-c-3	n/a		
GOVT-a-1	NYC		
GOVT-a-2	NYC		
GOVT-a-3	NYC		
GOVT-a-4	Existing Underfunded	Various Departments	
GOVT-a-5	Existing	City and Department's Safety Committees	
GOVT-a-6	NYC		
GOVT-a-7	NYC		
GOVT-a-8	NYC		
GOVT-a-9	Existing	Engineering, Planning, & Building Departments	
GOVT-a-10	Existing	Engineering, Planning, & Building Departments	
GOVT-a-11	Existing	Engineering, Planning, & Building Departments	
GOVT-a-12	Existing	Engineering, Planning, & Building Departments	
GOVT-a-13	NYC/blank		

GOVT-b-1	Existing	City Emergency Operations Plan & Continuity of Operations Plan, Water & Sewer Utility Emergnecy Operations Plan	
GOVT-b-2	Existing	City Emergency Operations Plan & Continuity of Operations Plan	
GOVT-b-3	Existing	City Emergency Operations Plan & Continuity of Operations Plan	
GOVT-b-4	Existing Underfunded	Various City Departments	
GOVT-b-5	NYC/blank		
GOVT-c-1	Existing	City Manager's Office & Various Departments	
GOVT-c-2	Existing	City Manager's Office & Fire Department	
GOVT-c-3	Existing	Police & Fire Department	
GOVT-c-4	Existing	All Departments	
GOVT-c-5	Existing	All Departments	
GOVT-c-6	Existing	Santa Clara County Emergency Manager's Association	
GOVT-c-7	Existing	Santa Clara County Emergency Manager's Association & Police Department	
GOVT-c-8	Existing Underfunded	Police & Fire Department	
GOVT-c-9	Existing Underfunded	Police & Fire Department	
GOVT-c-10	Existing Underfunded	Police & Fire Department	
GOVT-c-11	Existing	Police & Fire Department	
GOVT-c-12	Existing	Police & Fire Department, City Emergency Operations Plan	
GOVT-c-13	Existing	Santa Clara County AlertSCC Notication System	
GOVT-c-14	Existing	Quarterly	
GOVT-c-15	Existing	Engineering, Planning, & Building Departments	
GOVT-c-16	n/a		
GOVT-c-17	n/a		
GOVT-c-18	n/a		
GOVT-c-19	Existing	Santa Clara Valley Water District	
GOVT-c-20	Existing Underfunded		Only completed in UASI cities, e.g., San Francisco, Oakland & San Jose
GOVT-c-21	Under Study	Regional Planning	
GOVT-c-22	Existing	Santa Clara Valley Water District	
GOVT-c-23	n/a		
GOVT-c-24	Existing		
GOVT-c-25	NYC/blank		
GOVT-d-1	Existing	Citywide	
GOVT-d-2	Very High	Public Works	
GOVT-d-3	Existing	Public Works	
GOVT-d-4	Existing	Public Works & Planning Departments	
GOVT-d-5	Existing Underfunded	Santa Clara County Emergency Manager's Association	
GOVT-d-6	Existing	Fire Department	
GOVT-d-7	Existing	Engineering, Planning, & Building Departments	
GOVT-d-8	Existing Underfunded	Fire Department	
GOVT-d-9	Existing	Public Works & Planning Departments	

GOVT-d-10	NYC/blank	
GOVT-e-1	n/a	
GOVT-e-2	NYC/blank	
HEAL-a-1	Existing Underfunded	Santa Clara County Health and Hospitla System
HEAL-a-2	Existing Underfunded	Santa Clara County Health and Hospitla System
HEAL-a-3	Existing	
HEAL-a-4	Existing	Santa Clara County Health and Hospitla System
HEAL-a-5	Existing	Water and Sewer has emergency operations plan and urban water management plan which address water supply and emergency response.
HEAL-a-6	Existing Underfunded	Santa Clara County Health and Hospitla System
HEAL-a-7	Existing	Santa Clara County Health and Hospitla System
HEAL-b-1	High	Santa Clara County Health and Hospitla System
HEAL-b-2	High	Santa Clara County Health and Hospitla System
HEAL-b-3	High	Santa Clara County Health and Hospitla System
HEAL-c-1	Existing	Santa Clara County Health and Hospitla System & The City of Santa Clara
HEAL-c-2	Existing	City of San Jose
HEAL-c-3	Existing	Santa Clara County Health and Hospitla System
HEAL-c-4	Existing	Fire Department
HEAL-c-5	Existing	Santa Clara County Health and Hospitla System
HEAL-c-6	Existing	Santa Clara County Health and Hospitla System
HSNG-a-1	Existing	Planning Department
HSNG-a-2	NYC	
HSNG-a-3	Existing	Office of Emergency Services
HSNG-a-4	Under Study	Office of Emergency Services
HSNG-b-1	Existing	Building Inspection
HSNG-b-2	Existing	Building Inspection
HSNG-b-3	n/a	
HSNG-b-4	Existing	Building Inspection
HSNG-b-5	Existing	Building Inspection
HSNG-b-6	Moderate	Building Inspection
HSNG-b-7	Existing	Building Inspection
HSNG-b-8	Moderate	Building Inspection
HSNG-b-9	Existing	Building Inspection
HSNG-c-1	Existing	Building Inspection
HSNG-c-2	Existing	Building Inspection
HSNG-c-3	High	Building Inspection
HSNG-c-4	High	Building Inspection
HSNG-c-5	Under Study	Planning Department
HSNG-c-6	Under Study	Planning Department
HSNG-c-7	Under Study	Planning Department
HSNG-c-8	Under Study	Planning Department
HSNG-c-9	Existing Underfunded	Building Inspection
HSNG-d-1	Existing	Building Inspection
HSNG-d-2	Existing Underfunded	Building Inspection
HSNG-d-3	Existing Underfunded	Building Inspection
HSNG-d-4	Existing Underfunded	Building Inspection

HSNG-e-1	n/a	
HSNG-e-2	Under Study	Building Inspection
HSNG-e-3	Existing	Building Inspection
HSNG-e-4	NYC	
HSNG-f-1	Existing	Building Inspection
HSNG-f-2	Existing	Building Inspection
HSNG-g-1	n/a	
HSNG-g-2	n/a	
HSNG-g-3	n/a	
HSNG-g-4	n/a	
HSNG-g-5	n/a	
HSNG-g-6	Existing	Building & Fire Department
HSNG-g-7	Existing	Building & Fire Department
HSNG-g-8	Existing	Water Department
HSNG-g-9	n/a	
HSNG-g-10	n/a	
HSNG-g-11	n/a	
HSNG-g-12	n/a	
HSNG-g-13	Existing	Fire Department in excess of 3600 Square Feet
HSNG-g-14	Existing	Fire Department in excess of 3600 Square Feet
HSNG-g-15	Existing	Fire Department
HSNG-g-16	Existing	Fire Department & Building Department
HSNG-g-17	Existing Underfunded	Planning Department
HSNG-g-18	Existing	Building Inspection
HSNG-g-19	Moderate	Building Inspection & Fire Department
HSNG-g-20	NYC	Planning Department & Building Inspection
HSNG-h-1	Existing	Public Works, Building Inspection, Planning Department
HSNG-h-2	n/a	
HSNG-h-3	Existing	Public Works, Planning & Street Departments
HSNG-h-4	Existing	Street Department & Santa Clara Valley Water District
HSNG-h-5	Existing	City Manager's Office and Santa Clara Valley Water District
HSNG-h-6	Existing	Public Works & Building Inspection
HSNG-h-7	Existing	Public Works and Planning Department
HSNG-h-8	Existing	Public Works and Planning Department
HSNG-h-9	Moderate	Planning Department
HSNG-h-10	Existing	Public Works and Planning Department
HSNG-i-1	n/a	
HSNG-i-2	n/a	
HSNG-j-1	Existing	Building Inspection
HSNG-j-2	Existing Underfunded	Building Inspection
HSNG-k-1	Existing	Planning Department & Building Inspection
HSNG-k-2	Existing Underfunded	Planning Department & Building Inspection
HSNG-k-3	Existing Underfunded	Planning Department & Building Inspection
HSNG-k-4	NYC	
HSNG-k-5	Existing Underfunded	Office of Emergency Services

HSNG-k-6	Existing Underfunded Fire Department
HSNG-k-7	Existing
HSNG-k-8	Existing Police Department
HSNG-k-9	n/a
HSNG-k-10	Existing Underfunded Building Inspection & Fire Department
HSNG-k-11	NYC
HSNG-k-12	NYC
HSNG-k-13	Existing Street Department
HSNG-k-14	n/a
HSNG-k-15	n/a
HSNG-k-16	Existing City Manager's Office & Santa Clara County Emergency Manager's Association
INFR-a-1	Existing Underfunded Various City Departments
INFR-a-2	Existing Santa Clara Valley Water District
INFR-a-3	Existing Water Department & Electric Department (Silicon Valley Power)
INFR-a-4	Existing Underfunded Street, Sewer, Electric & Water Departments
INFR-a-5	Existing
INFR-a-6	Existing Water & Sewer
INFR-a-7	Existing Departmentments
INFR-a-8	Existing Underfunded Various Departments
INFR-a-9	Existing Underfunded Public Works & Electric Department
INFR-a-10	Existing Underfunded Public Works
INFR-a-11	Existing Underfunded Various Departments
INFR-a-12	Existing Underfunded Public Works & Electric Department
INFR-a-13	n/a
INFR-a-14	Existing Office of Emergency Services
INFR-a-15	Existing Office of Emergency Services
INFR-a-16	Existing Underfunded Public Safety
INFR-a-17	n/a
INFR-a-18	Existing Office of Emergency Services & Paratransit
INFR-a-19	Existing Water Department
INFR-a-20	Existing Street Department
INFR-a-21	Existing Street, Sewer, Electric & Water Departments
INFR-a-22	Existing Underfunded Public Works & Water Department
INFR-b-1	Existing Underfunded Public Works
INFR-b-2	n/a
INFR-b-3	Existing Underfunded Water, Sewer, and Storm Drain Departments
INFR-b-4	Existing Underfunded Water Department
INFR-b-5	Existing Underfunded Water & Sewer Departments
INFR-b-6	Existing Underfunded Water Department
INFR-b-7	Existing Underfunded Water D
INFR-b-8	Existing All City Departments
INFR-b-9	Existing All City Departments
INFR-b-10	n/a
INFR-c-1	Existing Water Department
INFR-c-2	n/a
INFR-c-3	n/a

INFR-c-4	n/a	
INFR-c-5	n/a	
INFR-c-6	n/a	
INFR-c-7	n/a	
INFR-c-8	n/a	
INFR-d-1	Existing Underfunded	Public Works
INFR-d-2	Existing	Public Works
INFR-d-3	Existing Underfunded	Santa Clara Valley Water District
INFR-d-4	Existing	Public Works & Water Department
INFR-d-5	Existing Underfunded	Public Works
INFR-d-6	Existing Underfunded	Public Works
INFR-d-7	Existing Underfunded	Street Department & Santa Clara Valley Water District
INFR-d-8	Existing Underfunded	Street Department & Santa Clara Valley Water District
INFR-d-9	Existing Underfunded	Santa Clara Valley Water District
INFR-d-10	n/a	
INFR-d-11	Existing Underfunded	Public Works & Santa Clara Valley Water District
INFR-d-12	Existing Underfunded	Santa Clara Valley Water District
INFR-d-13	Existing	Various City Departments
INFR-d-14	Existing Underfunded	Water & Sewer Departments & San Jose Waste Water Polution Control Plant
INFR-d-15	Existing Underfunded	Various City Departments
INFR-d-16	Existing	Various City Departments
INFR-d-17	Existing Underfunded	Street Department, Storm Division & Santa Clara Valley Water District
INFR-d-18	Existing Underfunded	Santa Clara Valley Water District
INFR-e-1	n/a	
INFR-e-2	n/a	
INFR-f-1	Existing	The City of Santa Clara has a similar program to Oakland
INFR-g-1	Existing	Various City Departments
INFR-g-2	Existing	City Manager's Office
INFR-g-3	Existing	Water Department & Santa Clara Valley Water District
INFR-g-4	Existing	Water, Streets, Storm, Sewer Departments
INFR-g-5	Existing	City Manager's Office
INFR-g-6	Existing	City Manager's Office & Fire Department
INFR-g-7	Existing	City Manager's Office
LAND-a-1	Existing	Planning Department
LAND-a-2	Existing	Building Department
LAND-a-3	Existing	Building Department
LAND-a-4	Under Study	Planning Department
LAND-a-5	Under Study	Planning Department
LAND-a-6	Existing	Building Department
LAND-a-7	Existing	Public Works, Planning & Building Departments
LAND-a-8	Existing	Building Department
LAND-b-1	n/a	

LAND-b-2	n/a	
LAND-c-1	Existing	Planning Department
LAND-c-2	Existing	Building Department
LAND-c-3	Existing	Planning Department
LAND-c-4	Existing	Building Department
LAND-c-5	NYC	
LAND-c-6	NYC	
LAND-d-1	n/a	
LAND-d-2	n/a	
LAND-d-3	Existing	Planning Department
LAND-d-4	Existing	Planning Department
LAND-d-5	n/a	
LAND-e-1	n/a	
LAND-e-2	n/a	
LAND-f-1	Existing	Planning Department
LAND-f-2	Existing Underfunded	Planning Department
LAND-f-3	Existing Underfunded	Planning Department
LAND-f-4	n/a	
LAND-f-5	Existing	Planning Department, Building Inspection, & Fire Department
LAND-g-1	Under Study	

Source: Association of Bay Area Governments, 2009.



The City of Santa Clara

20.7.3 City of Santa Clara Attachment 3: City of Santa Clara Exposure Analysis

This list includes all information on the City of Santa Clara's critical facilities and identifies which of the City's critical facilities are located in the mapped hazard areas.

ID	Critical Facility	Address	Type	Occupancy	Own/Lease	Structure Type
5234	Fire Station #10	5111 Star and Stripes Way	Fire Response	25	own	Wood-frame building > 5,000 SQFT
5235	SVP (NAJ)	1515 Norman Ave.	Utility	0	own	Electrical substation
5236	David's Restaurant/Golf & Tennis Facility	5151 Stars and Stripes Dr.	Restaurant/Tennis & Golf Center	150	own	Wood-frame building > 5,000 SQFT
5237	David's Banquet Facility	5131 Stars and Stripes Dr.	Restaurant/Banquet Facility	200	own	Wood-frame building > 5,000 SQFT
5238	SVP (URA)	2705 Bowers Ave.	Utility	0	own	Electrical substation
5239	Convention Center	5001 Great America Parkway	Multiple Occupancy; Public Assembly Building	N/A	own	Steel frame with cast-in-place concrete shear walls
5240	SVP (CEN)	3370 Bowers Ave.	Utility	0	own	Electrical substation
5241	SVP (KRS)	2970 Lafayette St.	Utility	0	own	Electrical substation
5242	SVP (GIA)	2339 Gianera St.	Utility	0	own	Electrical substation
5243	SVP (LAF)	2960 Lafayette St.	Utility	0	own	Electrical substation
5244	Building Maintenance Shop	2975 Lafayette	Bldg. Maintenance Activities	25	own	Light wood-frame building Electrical substation <=5,000 SQFT
5245	SVP (NRS)	4857 Centennial Blvd.	Utility	0	own	Electrical substation
5246	SVP (SRS)	1205 Space Park Dr.	Utility	0	own	Electrical substation
5247	SVP (FIB)	2850 Lafayette St.	Utility	0	own	Electrical substation
5248	SVP (RAY)	1205 Space Park Dr.	Utility	0	own	Electrical substation
5249	SVP (FGCS)	2965 Lafayette St.	Utility	0	own	Electrical substation
5250	Northside Tanks/Booster Pumps	2339 Gianera St.	Utility	0	own	Water storage tank-on-ground steel unanchored
5251	Rabello Pump Station	5601 Lafayette St.	Utility	0	own	Waste water lift station
5252	Police Pistol Range	1990 Walsh Ave.	Police Training/Response	20	own	Concrete shear wall
5253	Fire Station #2	1900 Walsh Ave.	Fire Response	60	own	Wood-frame building > 5,000 SQFT
5254	Street Corporation Yard	1700 Walsh Ave	Street/Automotive/Water/SeWater wellr Departments	100	own	Concrete frame with unreinforced masonry infill
5255	Fire ToWater wellr	1900 Walsh Ave.	Fire Training	0	own	Light wood-frame building Electrical substation <=5,000 SQFT
5256	Walsh Elevated Tank	1700 Walsh Ave.	Utility	0	own	Water storage tank-elevated steel
5257	Fire Training Center	1900 Walsh Ave.	Fire Response	40	own	Concrete frame with unreinforced masonry infill
5258	Emergency Operations Ctr.	1990 Walsh Ave.	Disaster Headquarters	40	own	Concrete shear wall
5259	SVP (WAL)	1600 Walsh Ave.	Utility	0	own	Electrical substation
5260	SVP (CCA)	2700 De La Cruz Blvd.	Utility	0	own	Electrical substation
5261	SVP (MAT)	600 Mathew St.	Utility	0	own	Electrical substation
5262	Kaiser Pump Station	900 Kiely Blvd.	Utility	0	own	Water pumping plant/station
5263	Fire Station #3	2821 Homestead Road	Fire Response	25	own	Wood-frame building > 5,000 SQFT
5264	Youth Activity Center	2450 Cabrillo	Youth Activity	100	own	Concrete shear wall
5265	Teen Center	2446 Cabrillo	Youth Activity	100	own	Light wood-frame building Electrical substation <=5,000 SQFT
5266	SVP (DUA)	850 Duane Ave.	Utility	0	own	Electrical substation
5267	SVP (DVR)	850 Duane Ave.	Utility	N/A	own	Light metal frame
5268	Parks Service Center	2600 Benton	Parks Admin.& Maintenance	100	own	Light wood-frame building Electrical substation <=5,000 SQFT
5270	Community Services Bldg.	1515 Civic Center Drive	Community Services	20	own	Light wood-frame building Electrical substation <=5,000 SQFT
5271	SVP (ANNEX)	1601 Civic Center Dr.	Utility	N/A	lease	Tilt-up construction
5272	Old Police Administration	1541 Civic Center Drive	Police Response	N/A	own	Wood-frame building > 5,000 SQFT
5273	Senior Center	1303 Fremont St.	Community Activity	150	own	Concrete shear wall
5274	Berman Building	1405 Civic Center Drive	IT & Communication Depts.	30	own	Reinforced masonry with flexible floor and roof
5275	Bldg. Maint. Warehouse	815 Comstock	Bldg. Maint. Storage	5	own	Light wood-frame building Electrical substation <=5,000 SQFT
5276	Police Administration	601 El Camino Real	Police Response	200	own	Steel moment-resisting frame
5277	Fire Prevention	1177 Alviso St.	Fire Response	40	own	Light wood-frame building Electrical substation <=5,000 SQFT
5278	Water wellll 3-02	500 Benton St.	Utility	0	own	Water well
5279	Headen-Inman House	1509 Warburton Ave	Historical	30	own	Reinforced masonry with flexible floor and roof
5280	Pavilions (4)	1511 Warburton Ave.	Teaching	30	own	Light wood-frame building Electrical substation <=5,000 SQFT
5281	Utility Yard	1705 Martin	Electric Administration & Purchasing Warehouse	50	own	Steel moment-resisting frame
5282	SVP (TAS)	2550 Tasman Dr.	Utility	0	own	Electrical substation
5283	SVP (ZEN)	3050 Semiconductor Dr.	Utility	0	own	Electrical substation
5284	SVP (COG)	524 Robert Ave.	Utility	N/A	own	Electrical substation
5285	Court House	1675 Lincoln Ave.	Engineering/Fire Inspection	40	own	Wood-frame building > 5,000 SQFT

ID	Critical Facility	Address	Type	Occupancy	Own/Lease	Structure Type
5286	Triton Museum	1505 Warburton Ave	cultural value	100	own	Wood-frame building >5,000 SQFT/Concrete shear wall
5287	Jamison-Brown House	1507 Warburton Ave.	Hiistorical	30	own	Wood-frame building > 5,000 SQFT
5288	Water wellll 11	651 Bucher Ave.	Utility	0	own	Water well
5289	Fire Station #4	2323 Pruneridge Ave.	Fire Response	25	own	Wood-frame building > 5,000 SQFT
5290	Downtown Tank/Booster Pumps	351 Brokaw Rd.	Utility	0	own	Water storage tank-on-ground steel unanchored
5291	SVP (BRO)	349 Brokaw Rd.	Utility	0	own	Electrical substation
5292	Serra Tanks/Booster Pumps	200 Lawrence Expwy.	Utility	0	own	Water storage tank-on-ground steel unanchored
5293	International Swim Center	2625 Patricia	Swim Center	100	own	Wood-frame building > 5,000 SQFT
5294	Central Park Library	2635 Homestead Road	Culture	500	own	Steel moment-resisting frame
5295	Fire Station #9	3011 Corvin Road	Fire Response	40	own	Wood-frame building > 5,000 SQFT
5296	Fire Station #5	1912 Bowers Ave.	Fire Response	25	own	Light wood-frame building Electrical substation <=5,000 SQFT
5297	SVP (HOM)	2831 Homestead Rd.	Utility	0	own	Electrical substation
5298	Community Rec. Center	969 Keily Blvd.	Community Activity	250	own	Wood-frame building > 5,000 SQFT
5299	Rivermark Comm. Policing	Rivermark Center	Police Response	20	lease	Light wood-frame building Electrical substation <=5,000 SQFT
5300	Fire Station #1	777 Benton St.	Fire Response	40	own	Concrete shear wall
5301	MiElectrical substationion Library	1098 Lexington Ave.	Culture	100	own	Wood-frame building > 5,000 SQFT
5302	BerryeElectrical substationa Adobe	373 Jefferson	Historical	20	own	Light wood-frame building Electrical substation <=5,000 SQFT
5303	Harris-LaElectrical substation House	1889 Market Street	Historical	30	own	Wood-frame building over 5,000 sq. feet
5304	Cemetary	420 N. Winchester Blvd.	Cemetary	20	own	Light wood-frame building Electrical substation <=5,000 SQFT
5305	Fire Station #7	3495 Benton St.	Fire Response	25	own	Wood-frame building > 5,000 SQFT
5306	Water wellll 17-02	3460 Brookdale Dr.	Utility	0	own	Water well
5307	SVP (SER)	5301 Stevens Creek Blvd.	Utility	0	own	Electrical substation
5308	City Hall	1500 Warburton Ave.	City Administration	200	own	Concrete shear wall
5309	SVP (Electrical substations)	810 Thomas Foon Chew Way	Utility	0	own	Electrical substation
5310	Fire Station #6	888 Agnews Road	Fire Response	40	own	Wood-frame building > 5,000 SQFT
5311	SVP (AGN)	2375 Agnew Rd.	Utility	0	own	Electrical substation
5312	SVP (JUL)	3750 Juliette Lane	Utility	0	own	Electrical substation
5313	Fire Station #8	2400 Agnew Road	Fire Response	25	own	Wood-frame building > 5,000 SQFT
5314	Northside Pump Station	4495 N. 1st St.	Utility	0	own	Waste water lift station

Irregularities-						
ID	Critical Facility	Structure Information	Irregularities-Plan View	Vertical	Structural Assessment	Retrofit
5234	Fire Station #10	N/A	Regular	Regular	No	no
5235	SVP (NAJ)	N/A	Regular	Regular	No	no
5236	David's Restaurant/Golf & Tennis Facility	N/A	Regular	Regular	No	no
5237	David's Banquet Facility	N/A	Regular	Regular	No	no
5238	SVP (URA)	N/A	Regular	Regular	No	no
5239	Convention Center	N/A	Cripple Wall	Open	no	no
5240	SVP (CEN)	N/A	Regular	Regular	No	no
5241	SVP (KRS)	N/A	Regular	Regular	No	no
5242	SVP (GIA)	Electrical substation	Regular	Regular	No	no
5243	SVP (LAF)	N/A	Regular	Regular	No	no
5244	Building Maintenance Shop	N/A	Regular	Regular	No	no
5245	SVP (NRS)	By End of 2004	Regular	Regular	No	no
5246	SVP (SRS)	N/A	Regular	Regular	No	no
5247	SVP (FIB)	N/A	Regular	Regular	No	no
5248	SVP (RAY)	By End of 2004	Regular	Regular	No	no
5249	SVP (FGCS)	By End of 2004	n/a	n/a	No	no
5250	Northside Tanks/Booster Pumps	Water pumping plant/station	Regular	Regular	No	no
5251	Rabello Pump Station	N/A	Regular	Regular	No	no
5252	Police Pistol Range	N/A	Regular	Regular	No	no
5253	Fire Station #2	N/A	Regular	Regular	Yes-2003	no
5254	Street Corporation Yard	Concrete Block	Regular	Regular	No	no
5255	Fire ToWater wellr	N/A	Regular	Regular	No	no

ID	Critical Facility	Structure Information	Irregularities-Plan View	Irregularities-		Retrofit
				Vertical	Structural Assessment	
5256	Walsh Elevated Tank	none	Regular	Regular	No	no
5257	Fire Training Center	Concrete Block	Regular	Regular	No	no
5258	Emergency Operations Ctr.	Reinforced Concrete	Regular	Regular	No	no
5259	SVP (WAL)	N/A	Regular	Regular	No	no
5260	SVP (CCA)	N/A	Regular	Regular	No	no
5261	SVP (MAT)	N/A	Regular	Regular	No	no
5262	Kaiser Pump Station	N/A	Regular	Regular	No	no
5263	Fire Station #3	Photovoltaic system on roof	Regular	Regular	Yes-2004	no
5264	Youth Activity Center	Reinforced Concrete	Regular	Regular	No	no
5265	Teen Center	Concrete Shear wall	Regular	Regular	No	no
5266	SVP (DUA)	By End of 2004	Regular	Regular	No	no
5267	SVP (DVR)	By End of 2004	Irregular Plan	Regular	No	no
5268	Parks Service Center	N/A	Regular	Regular	No	no
5270	Community Services Bldg.	N/A	Regular	Regular	No	no
5271	SVP (ANNEX)	N/A	Regular	Regular	No	no
5272	Old Police Administration	N/A	Regular	Regular	Yes	no
5273	Senior Center	Reinforced Concrete	Regular	Regular	No	no
5274	Berman Building	Masonry Construction & Wood Roof	Regular	Regular	No	no
5275	Bldg. Maint. Warehouse	N/A	Regular	Regular	No	no
5276	Police Administration	Light metal frame	Cripple Wall	Regular	Yes-1999	no
5277	Fire Prevention	N/A	Regular	Regular	No	no
5278	Water wellll 3-02	N/A	Regular	Regular	No	no
5279	Headen-Inman House	Masonry Construction & Wood Roof	Regular	Regular	No	no
5280	Pavilions (4)	N/A	Regular	Regular	No	no
5281	Utility Yard	N/A	Regular	Regular	No	no
5282	SVP (TAS)	N/A	Regular	Regular	No	no
5283	SVP (ZEN)	N/A	Regular	Regular	No	no
5284	SVP (COG)	N/A	Regular	Regular	No	no
5285	Court House	N/A	Regular	Regular	Yes	no
5286	Triton Museum	N/A	Regular	Regular	No	no
5287	Jamison-Brown House	N/A	Regular	Regular	No	no
5288	Water wellll 11	N/A	Regular	Regular	No	no
5289	Fire Station #4	Photovoltaic system on roof	Regular	Regular	Yes-2004	no
5290	Downtown Tank/Booster Pumps	Water pumping plant/station	Regular	Regular	No	no
5291	SVP (BRO)	N/A	Regular	Regular	No	no
5292	Serra Tanks/Booster Pumps	Water pumping plant/station	Regular	Regular	No	no
5293	International Swim Center	N/A	Regular	Regular	No	no
5294	Central Park Library	N/A	Regular	Regular	Yes-2004	no
5295	Fire Station #9	N/A	Regular	Regular	No	no
5296	Fire Station #5	N/A	Regular	Regular	No	no
5297	SVP (HOM)	N/A	Regular	Regular	No	no
5298	Community Rec. Center	N/A	Regular	Regular	No	no
5299	Rivermark Comm. Policing	N/A	Regular	Regular	No	no
5300	Fire Station #1	Reinforced Concrete	Regular	Regular	No	no
5301	MiElectrical substationion Library	N/A	Regular	Regular	No	no
5302	BerryeElectrical substationa Adobe	Historical Adobe	Regular	Regular	No	no
5303	Harris-LaElectrical substation House	N/A	Regular	Regular	No	no
5304	Cemetery	Reinforced Concrete	Regular	Regular	No	no
5305	Fire Station #7	N/A	Regular	Regular	No	no
5306	Water wellll 17-02	none	Regular	Regular	No	no
5307	SVP (SER)	N/A	Regular	Regular	no	no
5308	City Hall	Reinforced Concrete	Regular	Regular	No	no

ID	Critical Facility	Structure Information	Irregularities-				Retrofit
			Irregularities-Plan View	Vertical	Structural Assessment		
5309	SVP (Electrical substations)	By End of 2004	Regular	Regular	No	no	
5310	Fire Station #6	N/A	Regular	Regular	Yes-2004	no	
5311	SVP (AGN)	N/A	Regular	Regular	No	no	
5312	SVP (JUL)	N/A	Regular	Regular	No	no	
5313	Fire Station #8	N/A	Regular	Regular	No	no	
5314	Northside Pump Station	N/A	Regular	Regular	No	no	
ID	Critical Facility	Anchored Equipment	Alternate Power	Sprinklers	Roof Material	Year Built	
5234	Fire Station #10	yes	yes	no	Copper sheet	1988	
5235	SVP (NAJ)	yes	yes	no	N/A	1968	
5236	David's Restaurant/Golf & Tennis Facility	yes	no	yes	Metal	1986	
5237	David's Banquet Facility	yes	no	yes	Built Up/Tile	1999	
5238	SVP (URA)	yes	yes	no	Tar & Gravel	1976	
5239	Convention Center	no	yes	yes	bitumen	1986	
5240	SVP (CEN)	yes	yes	no	Metal	1975	
5241	SVP (KRS)	yes	yes	no	Metal	1940	
5242	SVP (GIA)	yes	no	no	Metal	1985	
5243	SVP (LAF)	yes	yes	no	Metal	1987	
5244	Building Maintenance Shop	yes	no	no	Built Up	1950	
5245	SVP (NRS)	yes	yes	no	Metal	2002	
5246	SVP (SRS)	yes	yes	no	Concrete	1977	
5247	SVP (FIB)	yes	yes	no	N/A	1975	
5248	SVP (RAY)	yes	yes	no	Metal	2004	
5249	SVP (FGCS)	yes	no	no	N/A	2004	
5250	Northside Tanks/Booster Pumps	no	yes	no	N/A	N/A	
5251	Rabello Pump Station	yes	yes	no	tar	N/A	
5252	Police Pistol Range	yes	yes	no	Built Up	1985	
5253	Fire Station #2	yes	yes	yes	Built Up	2003	
5254	Street Corporation Yard	yes	yes	yes-Auto Svcs.	Shingle	1963	
5255	Fire ToWater wellr	no	no	no	Concrete	1970	
5256	Walsh Elevated Tank	no	no	no	N/A	N/A	
5257	Fire Training Center	yes	no	no	Built Up	1976	
5258	Emergency Operations Ctr.	yes	yes	yes	Built Up	1985	
5259	SVP (WAL)	yes	yes	no	N/A	1964	
5260	SVP (CCA)	yes	yes	no	Metal	1985	
5261	SVP (MAT)	yes	yes	no	Metal	2001	
5262	Kaiser Pump Station	no	yes	no	N/A	N/A	
5263	Fire Station #3	yes	yes	yes	Tile	2005	
5264	Youth Activity Center	yes	no	yes	Foam/Built Up	1989	
5265	Teen Center	yes	no	yes	Tile	2001	
5266	SVP (DUA)	yes	yes	no	Metal	2004	
5267	SVP (DVR)	yes	yes	yes	Metal	2004	
5268	Parks Service Center	yes	yes	no	Built Up	1966	
5270	Community Services Bldg.	yes	no	no	Tile	1966	
5271	SVP (ANNEX)	no	yes	yes	Tar & Gravel	1972	
5272	Old Police Administration	yes	yes	no	Tile	1968	
5273	Senior Center	yes	no	no	Tile	1971	
5274	Berman Building	no	yes	no	Tile	1973	
5275	Bldg. Maint. Warehouse	yes	no	no	Shingle	1950	
5276	Police Administration	yes	yes	yes	Copper metal/Built up	1999	
5277	Fire Prevention	yes	yes	no	Tile	1983	
5278	Water wellll 3-02	no	yes	no	N/A	N/A	
5279	Headen-Inman House	no	no	no	Shingle	1920	

ID	Critical Facility	Anchored Equipment	Alternate Power	Sprinklers	Roof Material	Year Built
5280	Pavilions (4)	no	no	no	Tile	1967
5281	Utility Yard	yes	yes	no	Built Up/Foam/Steel	1969
5282	SVP (TAS)	yes	yes	no	Tar & Gravel	1975
5283	SVP (ZEN)	yes	yes	no	Metal	1990
5284	SVP (COG)	yes	no	no	Metal	1980
5285	Court House	yes	no	no	Tile	1965
5286	Triton Museum	yes	yes	yes	Foam	1985
5287	Jamison-Brown House	no	no	no	Shingle	1866
5288	Water wellll 11	no	yes	no	N/A	1958
5289	Fire Station #4	yes	yes	yes	Tile	2006
5290	Downtown Tank/Booster Pumps	no	yes	no	N/A	N/A
5291	SVP (BRO)	yes	yes	no	Metal	1989
5292	Serra Tanks/Booster Pumps	no	yes	no	N/A	N/A
5293	International Swim Center	yes	no	no	Built Up	1967
5294	Central Park Library	yes	no	yes	Built Up	2004
5295	Fire Station #9	yes	yes	yes	Built Up	1970
5296	Fire Station #5	yes	yes	no	Shake	1965
5297	SVP (HOM)	yes	yes	no	N/A	1971
5298	Community Rec. Center	yes	no	yes	Tile/Built Up	1976
5299	Rivermark Comm. Policing	yes	yes	yes	Tile/Built Up	2003
5300	Fire Station #1	yes	yes	yes-Basement Only	Tile	1965
5301	MiElectrical substationion Library	yes	no	yes-Basement Only	Built Up	1954
5302	BerryeElectrical substationa Adobe	no	no	no	Shake	1840
5303	Harris-LaElectrical substation House	no	no	no	Shingle	1875
5304	Cemetary	yes	no	no	Tile/Built Up	N/A
5305	Fire Station #7	yes	yes	no	Shake	1972
5306	Water wellll 17-02	no	yes	no	N/A	N/A
5307	SVP (SER)	yes	yes	no	N/A	1975
5308	City Hall	yes	yes	yes	Tile	1963
5309	SVP (Electrical substations)	yes	yes	no	Metal	2004
5310	Fire Station #6	yes	yes	yes	Tile/Built Up	2005
5311	SVP (AGN)	yes	yes	no	N/A	1976
5312	SVP (JUL)	yes	yes	no	Metal	1988
5313	Fire Station #8	yes	yes	no	Shake	1975
5314	Northside Pump Station	yes	yes	no	N/A	N/A

ID	Critical Facility	Stories	Capacity	Bldg Insured Value	Contents Insured Value
5234	Fire Station #10	2	7400	1500000	280000
5235	SVP (NAJ)	0	0	0	445000
5236	David's Restaurant/Golf & Tennis Facility	1	11000		
5237	David's Banquet Facility	1	10000		
5238	SVP (URA)	1	1213	290000	5400000
5239	Convention Center	2	262000	50000000	2000000
5240	SVP (CEN)	1	864	208000	3970000
5241	SVP (KRS)	1	1000	240000	4520000
5242	SVP (GIA)	1	800	43426	23783434
5243	SVP (LAF)	1	800	193000	4890000
5244	Building Maintenance Shop	1	3300	750000	250000
5245	SVP (NRS)	1	2176	300000	19068600
5246	SVP (SRS)	1	1148	275000	5300000
5247	SVP (FIB)	0	0	0	665000
5248	SVP (RAY)	1	N/A		
5249	SVP (FGCS)		N/A		

ID	Critical Facility	Stories	Capacity	Bldg Insured Value	Contents Insured Value	
5250	Northside Tanks/Booster Pumps	1	N/A			
5251	Rabello Pump Station	1	N/A			
5252	Police Pistol Range	1	10500	2800000	180000	
5253	Fire Station #2	2	18500	1000000	145000	
5254	Street Corporation Yard	1	23300	6000000	400000	
5255	Fire ToWater wellr	3	1600	48000	0	
5256	Walsh Elevated Tank	1	N/A			
5257	Fire Training Center	1	3000	600000	157000	
5258	Emergency Operations Ctr.	2	15500	5000000	1000000	
5259	SVP (WAL)	0	0	0	3675000	
5260	SVP (CCA)	1	240	61000	440000	
5261	SVP (MAT)	1	1000	240000	2760000	
5262	Kaiser Pump Station	1	N/A			
5263	Fire Station #3	2	5600	520000	70000	
5264	Youth Activity Center	1	20000	2800000	95000	
5265	Teen Center	1	8000	2300000	125000	
5266	SVP (DUA)	1	N/A			
5267	SVP (DVR)	2	N/A			
5268	Parks Service Center	1	6500	1200000	400000	
5270	Community Services Bldg.	1	2500	440000	0	
5271	SVP (ANNEX)	2	N/A			
5272	Old Police Administration	1	23000	5500000	105000	
5273	Senior Center	2	18000	6200000	200000	
5274	Berman Building	2	6000	3000000	0	
5275	Bldg. Maint. Warehouse	1	4300	500000	150000	
5276	Police Administration	3	62000	18000000	4500000	
5277	Fire Prevention	1	3500	380000	65000	
5278	Water welllll 3-02	1	N/A			
5279	Headen-Inman House	2	4000	500000	0	
5280	Pavilions (4)	1	N/A	500000	0	
5281	Utility Yard	1	47500	9400000	450000	
5282	SVP (TAS)	1	1216	291000	3820000	
5283	SVP (ZEN)	1	840	202000	3670000	
5284	SVP (COG)	1	19680	1141671	8397934	
5285	Court House	1	7200	2000000	500000	
5286	Triton Museum	1	23000	6000000	0	
5287	Jamison-Brown House	2	5000	800000	0	
5288	Water welllll 11	1	N/A			
5289	Fire Station #4	2	5600	590000	80000	
5290	Downtown Tank/Booster Pumps	1	N/A			
5291	SVP (BRO)	1	800	193000	3540000	
5292	Serra Tanks/Booster Pumps	1	N/A			
5293	International Swim Center	2	10000	6000000	75000	
5294	Central Park Library	2	80000	26000000	12000000	
5295	Fire Station #9	2	28000	4200000	160000	
5296	Fire Station #5	2	4300	900000	125000	
5297	SVP (HOM)	0	0	0	3295000	
5298	Community Rec. Center	1	28000	11000000	400000	
5299	Rivermark Comm. Policing	1	2500			
5300	Fire Station #1	2	19500	4100000	525000	
5301	MiElectrical substationion Library	1	8500	2500000	1500000	
5302	BerryeElectrical substationa Adobe	2	1000	128000	0	

ID	Critical Facility	Stories	Capacity	Bldg Insured Value	Contents Insured Value	
5303	Harris-LaElectrical substation House	2	5000	1000000	0	
5304	Cemetery	1	6500	750000	80000	
5305	Fire Station #7	2	5100	1000000	150000	
5306	Water well# 17-02	1	N/A			
5307	SVP (SER)	0	0	0	2245000	
5308	City Hall	2	75000	18000000	3000000	
5309	SVP (Electrical substations)	1	N/A			
5310	Fire Station #6	2	9000	800000	110000	
5311	SVP (AGN)	0	0	0	3675000	
5312	SVP (JUL)	1	1000	240000	2730000	
5313	Fire Station #8	1	5500	1150000	160000	
5314	Northside Pump Station	1	N/A			

Wildland-Urban Interface (WUI) Fire						
ID	Critical Facility	# of Dams	Threat	Wildfire Threat	FEMA Flood Zone	Tsunami
5234	Fire Station #10	1	Fire-threatened area	Moderate	500 Year	Not Affected
5235	SVP (NAJ)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5236	David's Restaurant/Golf & Tennis Facility	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5237	David's Banquet Facility	1	Fire-threatened area	Moderate	500 Year	Not Affected
5238	SVP (URA)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5239	Convention Center	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5240	SVP (CEN)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5241	SVP (KRS)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5242	SVP (GIA)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5243	SVP (LAF)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5244	Building Maintenance Shop	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5245	SVP (NRS)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5246	SVP (SRS)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5247	SVP (FIB)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5248	SVP (RAY)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5249	SVP (FGCS)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5250	Northside Tanks/Booster Pumps	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5251	Rabello Pump Station	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5252	Police Pistol Range	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5253	Fire Station #2	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5254	Street Corporation Yard	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5255	Fire ToWater wellr	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5256	Walsh Elevated Tank	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5257	Fire Training Center	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5258	Emergency Operations Ctr.	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5259	SVP (WAL)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5260	SVP (CCA)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5261	SVP (MAT)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5262	Kaiser Pump Station	0	Fire-threatened area	Moderate	500 Year	Not Affected
5263	Fire Station #3	0	Fire-threatened area	Moderate	500 Year	Not Affected
5264	Youth Activity Center	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5265	Teen Center	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5266	SVP (DUA)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5267	SVP (DVR)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5268	Parks Service Center	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5270	Community Services Bldg.	1	Fire-threatened area	Moderate	500 Year	Not Affected
5271	SVP (ANNEX)	1	Fire-threatened area	Moderate	500 Year	Not Affected
5272	Old Police Administration	1	Fire-threatened area	Moderate	500 Year	Not Affected
5273	Senior Center	1	Fire-threatened area	Moderate	500 Year	Not Affected

Wildland-Urban Interface (WUI) Fire						
ID	Critical Facility	# of Dams	Threat	Wildfire Threat	FEMA Flood Zone	Tsunami
5274	Berman Building	1	Fire-threatened area	Moderate	500 Year	Not Affected
5275	Bldg. Maint. Warehouse	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5276	Police Administration	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5277	Fire Prevention	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5278	Water wellIII 3-02	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5279	Headen-Inman House	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5280	Pavilions (4)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5281	Utility Yard	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5282	SVP (TAS)	1	Outside WUI hazard area	High	100 Year	Not Affected
5283	SVP (ZEN)	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5284	SVP (COG)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5285	Court House	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5286	Triton Museum	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5287	Jamison-Brown House	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5288	Water wellIII 11	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5289	Fire Station #4	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5290	Downtown Tank/Booster Pumps	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5291	SVP (BRO)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5292	Serra Tanks/Booster Pumps	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5293	International Swim Center	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5294	Central Park Library	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5295	Fire Station #9	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5296	Fire Station #5	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5297	SVP (HOM)	0	Fire-threatened area	Moderate	500 Year	Not Affected
5298	Community Rec. Center	0	Fire-threatened area	Moderate	500 Year	Not Affected
5299	Rivermark Comm. Policing	1	Fire-threatened area	Moderate	500 Year	Not Affected
5300	Fire Station #1	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5301	MiElectrical substationion Library	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5302	BerryeElectrical substationa Adobe	1	Fire-threatened area	Moderate	500 Year	Not Affected
5303	Harris-LaElectrical substation House	1	Fire-threatened area	Moderate	500 Year	Not Affected
5304	Cemetary	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5305	Fire Station #7	0	Outside WUI hazard area	Moderate	500 Year	Not Affected
5306	Water wellIII 17-02	0	Fire-threatened area	Moderate	500 Year	Not Affected
5307	SVP (SER)	0	Outside WUI hazard area	Moderate	Undetermined	Not Affected
5308	City Hall	0	Outside WUI hazard area	Moderate	100 Year	Not Affected
5309	SVP (Electrical substations)	1	Fire-threatened area	Moderate	500 Year	Not Affected
5310	Fire Station #6	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5311	SVP (AGN)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5312	SVP (JUL)	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5313	Fire Station #8	1	Outside WUI hazard area	Moderate	500 Year	Not Affected
5314	Northside Pump Station	1	Fire-threatened area	Moderate	100 Year	Not Affected

ID	Critical Facility	Existing Landslide Areas	EQ-Induced Landslide	EQ Shake Potential	Liquefaction Susceptibility	EQ-Induced Liquefaction
5234	Fire Station #10	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5235	SVP (NAJ)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5236	David's Restaurant/Golf & Tennis Facility	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5237	David's Banquet Facility	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5238	SVP (URA)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5239	Convention Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5240	SVP (GEN)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5241	SVP (KRS)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5242	SVP (GIA)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5243	SVP (LAF)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone

ID	Critical Facility	Existing Landslide Areas	EQ-Induced Landslide	EQ Shake Potential	Liquefaction Susceptibility	EQ-Induced Liquefaction
5244	Building Maintenance Shop	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5245	SVP (NRS)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5246	SVP (SRS)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5247	SVP (FIB)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5248	SVP (RAY)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5249	SVP (FGCS)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5250	Northside Tanks/Booster Pumps	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5251	Rabello Pump Station	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5252	Police Pistol Range	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5253	Fire Station #2	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5254	Street Corporation Yard	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5255	Fire ToWater wellr	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5256	Walsh Elevated Tank	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5257	Fire Training Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5258	Emergency Operations Ctr.	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5259	SVP (WAL)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5260	SVP (CCA)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5261	SVP (MAT)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5262	Kaiser Pump Station	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5263	Fire Station #3	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5264	Youth Activity Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5265	Teen Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5266	SVP (DUA)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5267	SVP (DVR)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5268	Parks Service Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5270	Community Services Bldg.	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5271	SVP (ANNEX)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5272	Old Police Administration	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5273	Senior Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5274	Berman Building	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5275	Bldg. Maint. Warehouse	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5276	Police Administration	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5277	Fire Prevention	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5278	Water wellll 3-02	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5279	Headen-Inman House	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5280	Pavilions (4)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5281	Utility Yard	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5282	SVP (TAS)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Outside of CGS Liquefaction Zone
5283	SVP (ZEN)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5284	SVP (COG)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5285	Court House	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5286	Triton Museum	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5287	Jamison-Brown House	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5288	Water wellll 11	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5289	Fire Station #4	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5290	Downtown Tank/Booster Pumps	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5291	SVP (BRO)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5292	Serra Tanks/Booster Pumps	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5293	International Swim Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5294	Central Park Library	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5295	Fire Station #9	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5296	Fire Station #5	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5297	SVP (HOM)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone

ID	Critical Facility	Existing Landslide Areas	EQ-Induced Landslide	EQ Shake Potential	Liquefaction Susceptibility	EQ-Induced Liquefaction
5298	Community Rec. Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5299	Rivermark Comm. Policing	Surficial Deposits	Outside of CGS Landslide Zone	65	Very High	Liquefaction Hazard Zone
5300	Fire Station #1	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5301	MIElectrical substationion Library	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5302	BerryeElectrical substationa Adobe	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5303	Harris-LaElectrical substation House	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5304	Cemetery	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5305	Fire Station #7	Surficial Deposits	Outside of CGS Landslide Zone	55	Moderate	Liquefaction Hazard Zone
5306	Water welllll 17-02	Surficial Deposits	Outside of CGS Landslide Zone	55	Moderate	Liquefaction Hazard Zone
5307	SVP (SER)	Surficial Deposits	Outside of CGS Landslide Zone	55	Moderate	Outside of CGS Liquefaction Zone
5308	City Hall	Surficial Deposits	Mapping in Progress	85	Moderate	Mapping in Progress
5309	SVP (Electrical substations)	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5310	Fire Station #6	Surficial Deposits	Outside of CGS Landslide Zone	65	High	Liquefaction Hazard Zone
5311	SVP (AGN)	Surficial Deposits	Outside of CGS Landslide Zone	65	High	Liquefaction Hazard Zone
5312	SVP (JUL)	Surficial Deposits	Outside of CGS Landslide Zone	65	High	Liquefaction Hazard Zone
5313	Fire Station #8	Surficial Deposits	Outside of CGS Landslide Zone	65	High	Liquefaction Hazard Zone
5314	Northside Pump Station	Surficial Deposits	Outside of CGS Landslide Zone	85	Very High	Liquefaction Hazard Zone
ID	Critical Facility	Sea Level Rise 16"	Sea Level Rise 55"			
5234	Fire Station #10	Not Affected	Affected			
5235	SVP (NAJ)	Not Affected	Not Affected			
5236	David's Restaurant/Golf & Tennis Facility	Not Affected	Not Affected			
5237	David's Banquet Facility	Not Affected	Not Affected			
5238	SVP (URA)	Not Affected	Not Affected			
5239	Convention Center	Not Affected	Affected			
5240	SVP (CEN)	Not Affected	Not Affected			
5241	SVP (KRS)	Not Affected	Not Affected			
5242	SVP (GIA)	Not Affected	Not Affected			
5243	SVP (LAF)	Not Affected	Not Affected			
5244	Building Maintenance Shop	Not Affected	Not Affected			
5245	SVP (NRS)	Not Affected	Not Affected			
5246	SVP (SRS)	Not Affected	Not Affected			
5247	SVP (FIB)	Not Affected	Not Affected			
5248	SVP (RAY)	Not Affected	Not Affected			
5249	SVP (FGCS)	Not Affected	Not Affected			
5250	Northside Tanks/Booster Pumps	Not Affected	Not Affected			
5251	Rabello Pump Station	Not Affected	Not Affected			
5252	Police Pistol Range	Not Affected	Not Affected			
5253	Fire Station #2	Not Affected	Not Affected			
5254	Street Corporation Yard	Not Affected	Not Affected			
5255	Fire ToWater wellr	Not Affected	Not Affected			
5256	Walsh Elevated Tank	Not Affected	Not Affected			
5257	Fire Training Center	Not Affected	Not Affected			
5258	Emergency Operations Ctr.	Not Affected	Not Affected			
5259	SVP (WAL)	Not Affected	Not Affected			
5260	SVP (CCA)	Not Affected	Not Affected			
5261	SVP (MAT)	Not Affected	Not Affected			
5262	Kaiser Pump Station	Not Affected	Not Affected			
5263	Fire Station #3	Not Affected	Not Affected			
5264	Youth Activity Center	Not Affected	Not Affected			
5265	Teen Center	Not Affected	Not Affected			
5266	SVP (DUA)	Not Affected	Not Affected			
5267	SVP (DVR)	Not Affected	Not Affected			
5268	Parks Service Center	Not Affected	Not Affected			

ID	Critical Facility	Sea Level Rise 16"	Sea Level Rise 55"			
5270	Community Services Bldg.	Not Affected	Not Affected			
5271	SVP (ANNEX)	Not Affected	Not Affected			
5272	Old Police Administration	Not Affected	Not Affected			
5273	Senior Center	Not Affected	Not Affected			
5274	Berman Building	Not Affected	Not Affected			
5275	Bldg. Maint. Warehouse	Not Affected	Not Affected			
5276	Police Administration	Not Affected	Not Affected			
5277	Fire Prevention	Not Affected	Not Affected			
5278	Water wellll 3-02	Not Affected	Not Affected			
5279	Headen-Inman House	Not Affected	Not Affected			
5280	Pavilions (4)	Not Affected	Not Affected			
5281	Utility Yard	Not Affected	Not Affected			
5282	SVP (TAS)	Affected	Affected			
5283	SVP (ZEN)	Not Affected	Not Affected			
5284	SVP (COG)	Not Affected	Not Affected			
5285	Court House	Not Affected	Not Affected			
5286	Triton Museum	Not Affected	Not Affected			
5287	Jamison-Brown House	Not Affected	Not Affected			
5288	Water wellll 11	Not Affected	Not Affected			
5289	Fire Station #4	Not Affected	Not Affected			
5290	Downtown Tank/Booster Pumps	Not Affected	Not Affected			
5291	SVP (BRO)	Not Affected	Not Affected			
5292	Serra Tanks/Booster Pumps	Not Affected	Not Affected			
5293	International Swim Center	Not Affected	Not Affected			
5294	Central Park Library	Not Affected	Not Affected			
5295	Fire Station #9	Not Affected	Not Affected			
5296	Fire Station #5	Not Affected	Not Affected			
5297	SVP (HOM)	Not Affected	Not Affected			
5298	Community Rec. Center	Not Affected	Not Affected			
5299	Rivermark Comm. Policing	Not Affected	Not Affected			
5300	Fire Station #1	Not Affected	Not Affected			
5301	MIElectrical substationion Library	Not Affected	Not Affected			
5302	BerryeElectrical substationa Adobe	Not Affected	Not Affected			
5303	Harris-LaElectrical substation House	Not Affected	Not Affected			
5304	Cemetary	Not Affected	Not Affected			
5305	Fire Station #7	Not Affected	Not Affected			
5306	Water wellll 17-02	Not Affected	Not Affected			
5307	SVP (SER)	Not Affected	Not Affected			
5308	City Hall	Not Affected	Not Affected			
5309	SVP (Electrical substations)	Not Affected	Affected			
5310	Fire Station #6	Not Affected	Not Affected			
5311	SVP (AGN)	Not Affected	Not Affected			
5312	SVP (JUL)	Not Affected	Not Affected			
5313	Fire Station #8	Not Affected	Not Affected			
5314	Northside Pump Station	Affected	Affected			