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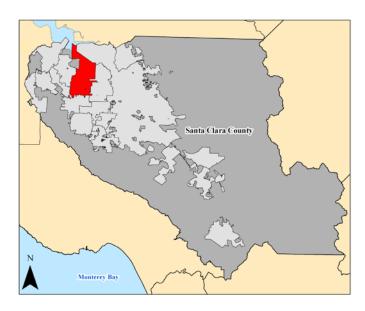
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SECTION 22 CITY OF SUNNYVALE

22.1 Introduction

This City of Sunnyvale 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, a signed adoption resolution confirms the City Council adopted this annex.

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 <u>April 26, 2005</u>.



Sunnyvale, California is located in the heart of Silicon Valley, 44 miles south of San Francisco and ten miles northwest of San Jose. It is situated on the San Francisco peninsula in Santa Clara County. The City of Sunnyvale has a population of 140,450 people, which makes it the fifth largest city in San Francisco Bay Area and the second largest city in Santa Clara County.

The City of Sunnyvale's unique way of budgeting is part of the City internationally recognized Planning and Management System. The Sunnyvale budget looks ahead for many years, anticipating income and

expenses over a long-term perspective. The budget includes a 20-year Resource Allocation Plan that is balanced to the twentieth year with all reserve requirements met. The budget is performance-based, structured programmatically around services provided with measures to evaluate how well the City's operations perform against stated objectives.

The City has one of the lowest crime rates in the nation for cities with population over 100,000. Sunnyvale Public Safety is unique in that the department has fully integrated police, fire, and EMS services, in which officers are cross trained in these disciplines.

As part of the Silicon Valley, Sunnyvale is headquarters to several high-tech companies such as Maxim Integrated Products, Juniper Networks, Palm, Inc., AMD, NetApp, Spansion, Yahoo!, Simco Electronics, Mirapoint, AppliedMicro and Ariba. Sunnyvale is also home to several

aerospace/defense companies; Lockheed Martin has a major facility in Sunnyvale, and Honeywell, Northrop Grumman Electronic Systems - Marine Systems, and Spirent also have offices in Sunnyvale. Sunnyvale is also the home to Onizuka Air Force Station, where its main building, locally known as the Blue Cube, is its most prominent feature. The base, named for the deceased Space Shuttle Challenger astronaut Ellison Onizuka, was the primary artificial satellite control facility of the United States armed forces until August 2010.

Sunnyvale is served by the Santa Clara Valley Transportation Authority (both light rail and buses) and the Caltrain commuter rail. The SR 85, US 101, SR 237, and I-280 freeways run through the city. A segment of State Route 82 runs through the center of the city, following the path of historic El Camino Real. Sunnyvale has also been listed by the League of American Bicyclists as a Bicycle Friendly Community at the bronze level, having multiple on-street and off-street bike lanes, bicycle-activated traffic signals, and bicycle accommodations on both VTA and Caltrain. The Bicycle and Pedestrian Advisory Committee advises the city council on the continued development of the bicycle plan for the city.

For commercial passenger air travel, Sunnyvale is well served by three nearby international airports: Norman Y. Mineta San Jose International Airport (SJC), San Francisco International Airport (SFO), and Metropolitan Oakland International Airport (OAK).

RESOLUTION NO. 157-05

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SUNNYVALE APPROVING THE MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN ADOPTED BY THE ASSOCIATION OF BAY AREA GOVERNMENTS, ENTITLED "TAMING NATURAL DISASTERS" AS THE CITY OF SUNNYVALE LOCAL HAZARD MITIGATION PLAN, ALONG WITH THE LOCAL ANNEX TO THE PLAN

WHEREAS, the Bay Area is subject to various earthquake-related hazards such as ground shaking, liquefaction, land sliding, 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 Sunnyvale recognizes that disasters do not recognize city, county, or special district boundaries; and

WHEREAS, the City of Sunnyvale seeks to maintain and enhance both a disasterresistant City 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 Sunnyvale is committed to increasing the disaster resistance of the infrastructure, health, housing, economy, government services, education, environment, and land use systems in the City Sunnyvale, 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

WHEREAS, on March 17, 2005, ABAG approved and adopted the ABAG report entitled "Taming Natural Disasters" as the Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area; and

WHEREAS, the City of Sunnyvale has prepared an annex to the plan to address specific needs particular to the City.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SUNNYVALE that it hereby adopts, along with its local annex, the ABAG Multi-Jurisdictional Plan as its Local Hazard Mitigation Plan.

NOW, THEREFORE, BE IT FURTHER RESOLVED BY THE CITY COUNCIL OF THE CITY OF SUNNYVALE that the City of Sunnyvale hereby commits to continuing to take those actions and initiating further actions, as appropriate, as identified in the City of Sunnyvale Annex of that multi-jurisdictional Local Hazard Mitigation Plan.

Adopted by the City Council at a regular meeting held on April 26, 2005, by the following vote:

AYES:

LEE, HAMILTON, FOWLER, CHU, SWEGLES, MILLER, HOWE

NOES: ABSTAIN: NONE

NONE

ABSENT:

NONE

ATTEST:

(SEAL)

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22.2 INTERNAL PLANNING PROCESS

The City of Sunnyvale participated in the regional planning process coordinated by ABAG and the local planning process coordinated by Santa Clara County OES as noted in Section 3 of this plan. Cherel Sampson, Emergency Services Coordinator, served as the City's representative and lead for completing this annex. She represented the city at Local Planning Team meetings #2 and #3. Cherel performed internal reviews and collaboration in order to provide all of the required information for development of this annex.

Contact information: jgienger@ci.sunnyvale.ca.us, 408.730.7198

The City of Sunnyvale's internal planning team included the following individuals:

Cherel Sampson, Emergency Services Coordinator

Gaiping Li, Senior Programmer

Anthony Giles, Risk Manager

Klaus Daehne, Manager, Information Technology

Val Conzet, Water Operations Manager

Nathan Truitt, Administrative Aide

Hanson Hom, Planning Director

Andrew Miner, Principal Planner

Jim Craig, Field Services Superintendent

Michael Chan, City Property Administrator

Ali Fatapour, Superintendent of Buildings Inspection

John Gienger, Public Safety Lieutenant

Public Outreach

The City of Sunnyvale notified residents and businesses of the hazard mitigation planning process via the City's website and by emailing neighborhood associations, Sunnyvale Neighborhoods Actively Prepare (SNAP) members, and Sunnyvale Amateur Radio Emergency Services (SARES) members regarding the public opportunity to respond to the online survey discussed in Section 3.2.6 of the County Annex. A copy of the survey is included in County Attachment 7: Survey Outreach Materials, found in Section 9.7.

Copies of the City's outreach materials are included in Section 22.7, Sunnyvale Attachment 1: Outreach Materials.

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 respondents confirmed the priority rankings for the identified hazards indicating that ground shaking caused by earthquakes and infrastructure failure are of most concern. Additionally, a significant number of respondents indicated they have made improvements to their property to reduce risk of damage (refer to Table 22-6). The survey allowed the City an opportunity to expand the list of stakeholders. Several respondents provided contact information and were given an opportunity to review/comment on the complete draft prior to adoption. As the City continues to increase awareness of hazard mitigation, the suggested stakeholders (item 19 below) will be considered for involvement in future mitigation planning discussions.

The results of the survey provide valuable information for the City of Sunnyvale as they continue in their preparedness efforts. These responses may be used as a bench mark for future measurements of improvement. For example, the City's SNAP team may choose to focus on educational outreach about the benefits of insurance or emergency preparedness kits. After this type of implementation, a similar survey may be administered to validate the progress and confirm that more residents have improved their preparedness capabilities.

The City of Sunnyvale will consider the recommendations provided by survey respondents (items 6 and 18 below) throughout the life of this plan and prioritize those that can be implemented efficiently and effectively.

The survey responses received from the City of Sunnyvale residents are summarized below:

- 1. 108 out of 541 survey respondents were from the City of Sunnyvale.
- 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 Sunnyvale (in order of most responses):

Table 22-1: Hazards of Most Concern

Hazard	Number of Responses
Infrastructure: Water System Disruption (no potable water)	83
Earthquake: Ground Shaking	79
Infrastructure: Electrical System Disruption (no power)	73
Infrastructure: Wastewater System Disruption (sewer backup)	49
Infrastructure: Energy System Disruption (no gas)	41
Infrastructure: Telecommunication System Disruption (no phone / cell service)	36
Hazardous Materials Spills (chemical/biological)	30
Infrastructure: Transportation Disruption (blocked roads / failed bridges)	24
Disease and Outbreak	23
Earthquake: Surface Rupture	19
Drought	13
Earthquake: Liquefaction	13
Additional Hazard *	13
Flood	12
Wildfire	5
Heat (extreme heat)	4
Wind (high winds)	4
Agricultural Pests and Diseases	3
Expansive Soils	3
Tornado	3
Dam Failure	2
Delta Levee Failure	2
Earthquake: Landslides	2
Bay Area Silting	1
Solar Storm	1
Tsunami	1
Freeze	0
Hailstorm	0
Land Subsidence (soil compaction due to subsurface water removal)	0
Landslide and Debris flow	0
Thunder/Lightning Storms	0
Volcano	0
* Respondents noted the following additional hazards: railroad accident, url	on fire goe line runture

^{*} Respondents noted the following additional hazards: railroad accident, urban fire, gas line rupture, sewer backup, drug dealers, trees falling, failure of above ground power lines, airplane incident, terrorist attacks, and epidemics

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 Sunnyvale respondents:

Table 22-2: Items Readily Available to Respondents

Item that is Readily Available	Responses
Flashlight (with batteries)	104
Canned / Non-perishable Foods (ready to eat)	99
Blanket(s)	98
First Aid Kit	96
Portable AM/FM Radio (solar powered, hand crank,or batteries)	87
Potable Water (3 gallons per person)	85
Extra Medications	72
Cash	65
Handheld "Walkie-Talkie" Radios (with batteries)	55
What else do you have in your emergency kit? *	42
Important Family Photos/Documentation in a water and fire proof container	26

^{*} Respondents noted the following additional items in their emergency kits: tools, clothes, camping stove and fuel, sleeping bag, pet supplies, generator, hygiene items, SNAP program materials and supplies, list of neighbors and their households, tents, portable propane grill and fuel, charcoal grill and coal, candles, extension cords, rope, firearms, maps, chargers, batteries, gloves, filter mask, trash bags, medical supplies, matches, hard hat, SARES radio and training guide, HAMS radio, porta potty, cooking utensils, solar cooker, lantern, fire extinguisher, portable heater, water purification tablets, paper and pens, and CERT manual

- 4. Respondents were asked if they were familiar with the special needs of their neighbors in the event of a disaster situation.
 - 61, or **57.5%** of respondents, answered that they **are not** familiar with the special needs of their neighbors.
 - 45, or **42.5%** 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).
 - 79, or **75.2%** of respondents indicated that they **are part of CERT**.
 - 14, or 13.3% of respondents, indicated that they are not part of CERT, but would like to learn more about CERT.

• 12, or **11.4%** 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:

- SNAP trained and took a recent refresher course
- I feel responsible to be a part of the solution, not a community member needing assistance
- I want to be able to take care of myself, family, neighbors, and community
- I am a SNAP instructor. This allows me to receive a steady stream of disaster preparedness information and to share this information with the community
- To be an asset in an emergency
- To be prepared
- I am SNAP, and an AEC in SARES
- I am not interested in CERT because SNAP is more neighborhood focused
- I am a licensed amateur radio operator who wants to volunteer my services and equipment in case of emergency, only after being properly trained by my local ARES/RACES group
- After the Loma Prieta earthquake I wanted to get SNAP training
- I may not have control over a disaster, but I do have control over my reaction to it. I like helping out and doing what I can to calm those around me and prepare for the actual arrival of emergency assistance
- Information and training increase the probability of surviving a disaster
- Need knowledge of CERTs actions to better serve the community as the leader of Sunnyvale Amateur Radio Emergency Service
- Looking to have my family better prepared in a disaster and looking into public safety as a profession
- I did not know about CERT but I am interested and will check out their website
- I'm a CERT because I feel it is very important for citizens to respond proactively to any different number of disasters/emergencies. Civilian preparedness is crucial
- I do not have extra time to devote for re-certification
- 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 75 responses received:
 - The City provides free classes, training, events, and disseminates information as well as emergency supply units within communities
 - Set up small command centers with emergency equipment and food in different locations throughout the City in big metal containers
 - Promote emergency preparedness and ensure residents have their 3-5 day emergency kits and to know their neighbors
 - Run emergency preparedness drills
 - Promote and advertise CERT/SNAP training

- Maintain infrastructure
- Create locations in different communities where residents can go to find out about the status of the community during a disaster
- Communication and Community Outreach- hold neighborhood meetings on a quarterly basis
- More hardened emergency equipment sites and a mobile command van with HAM gear
- Establish emergency communication and notification
- Educate residents about all hazards and disaster preparedness and publish accessible guidelines for disaster kits
- Provide free and/or easily accessible emergency kits
- Ensure adequate supplies of survival equipment/supplies/landing sites for aircrafts are available
- Create an emergency backup plan to keep wells and fresh water operational
- Publicize the City of Sunnyvale Emergency Community radio station on 1680 AM
- Assist in setting up local neighborhood groups
- Provide information about obtaining assistance and aid is passed through communities before an emergency strikes
- 7. Respondents were asked if they live in an apartment building or home with a living space above a garage or parking area.
 - 89 or **83.2%** of respondents indicated that they **do not** live in an apartment or home with living space above a garage or parking area.
 - 18, or **16.8%** of respondents, indicated that they **do** live in an apartment building or home with living space above a garage or parking area.
 - One respondent skipped this question.

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. 3 respondents indicated that they are "Extremely Concerned", 3 respondents indicated that they have "High Concern", 4 respondents indicated they have "Moderate Concern", and 7 respondents indicated "Little Concern".

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 22-3: Adequate Homeowners Insurance

Answer	Responses
Yes, my insurance coverage should be adequate	60
No, I don't believe my insurance coverage would be adequate for a major disaster	26
Unsure	7
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 22-4: Earthquake Insurance

Answer	Responses
Yes, I own my home and have earthquake insurance.	23
Yes, I rent my home and have earthquake insurance.	1
No, but I am interested in reviewing earthquake insurance options.	8
No, earthquake insurance is too expensive.	64
No, I do not need earthquake insurance.	9

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

Table 22-5: Flood Insurance

Answer	Responses
Yes, I own my home and have flood insurance.	11
Yes, I rent my home and have flood insurance.	2
No, but I am interested in reviewing flood insurance options.	11
No, I do not need flood insurance	80

- 11. Respondents indicated the following as additional insurance listed for their home or property:
 - Fire
 - Liability
 - Umbrella
 - Homeowner's
 - Theft
 - Condo
 - Renter's

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 22-6: Property Changes to Reduce Future Damages from Hazards

Property Mitigation	Responses
Roof retrofit using fire resistant material	32
Seismic retrofit of the structure and/or foundation	23
Other *	14
Strengthened Openings (to reduce high hazard wind risk)	13
Installed backflow prevention device(s)	10
Defensible space landscaping (clear vegetation around house to reduce wildfire risk)	9
House elevation or first floor modification to prevent flood damage	0

^{*}The responses to "Other" were: "earthquake retrofitting and fire retardant roof (we have tile)",

- 13. Respondents were asked if they work in Santa Clara County.
 - 65, or **63.7%** of respondents, indicated that they **do** work in Santa Clara County.
 - 37, or **36.3%** of 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 22-7: Place of Work in Hazard Areas

Natural Hazard	Response
Earthquake fault zone	43
I don't know	25
High-risk flood zone	14
Liquefaction zone	14
Other *	10
Wildland Urban Interface (wildfire risk area)	6
Landslide Risk area	1

^{*} The responses to "other" were: retired

[&]quot;Considering buying a power generator", "Live in a mobile home with earthquake braces", and

[&]quot;Removed a major dead tree in my front yard"

- 15. Respondents were asked if their employer has a plan for disaster recovery in place.
 - 46, or 56.1% of respondents, indicated that their employer does have a disaster recovery plan in place.
 - 10, or 12.2% of respondents, indicated that their employer does not have a disaster recovery plan in place.
 - 26 respondents skipped this question.
- 16. Respondents were asked if their employer has a workforce communications plan to implement following a disaster so they may contact their employees.
 - 42, or **50.6%** of respondents indicated that their **employer does** have a workforce communications plan.
 - 11, or **13.3%** of respondents indicated that their **employer does not** have a workforce communications plan.
 - 30, or **36.1%** of respondents indicated that they are **unsure** if their employer has a workforce communications plan.
 - 25 respondents skipped this question.
- 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. 19 respondents replied to this question. These answers are summarized below. 89 respondents skipped this question.
 - USGS hazard maps
 - Earthquake faults
 - Flooding
 - Dam inundation
 - Liquefaction analysis
 - Tsunami inundation maps prepared by UCLA
 - Natural gas fault line analysis
 - Sea level rise studies
- 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:
 - Aggressively upgrade infrastructure: water, sewer, electric, gas, and roads.
 - Publish (possibly in the newspaper) an emergency action guide annually
 - Make plans for use of local parks as disaster service centers
 - Retrofit structures and infrastructure, especially those used for public use
 - Analyze the unreinforced masonry in old downtown Sunnyvale
 - Underground powerlines
 - Enforce the building code

- Publish a report on hazard severity for the County
- Create a list of home built before the City codes were published
- Trim trees that could possibly fall in the event of a storm/disaster
- Offer quarterly training sessions in different languages at local community schools/centers
- Run large scale disaster exercises
- Run public education and awareness campaigns
- Adequately fund emergency preparation and public information functions
- Upgrade utility code to provide better isolation for ruptured gas lines, downed power lines, ruptured water mains, and sewage lines
- Citizen training and awareness
- Inter-City cross emergency training
- Eliminate the drive to create greater density housing. Greater density equals greater hazard.
- Identify natural gas pipelines, especially high pressure ones
- 19. Respondents were asked to recommend any companies or local associations that should be involved in the Santa Clara County hazard mitigation planning process. The recommended organizations are listed below and were given the opportunity to review the draft plan, as noted in the following section.
 - All emergency services organizations
 - Silicon Valley Bicycle Coalition
 - Bay Area Red Cross
 - Healthcare
 - Traditions of Sunnyvale Homeowners Association
 - American Red Cross of Silicon Valley
 - United Brotherhood of Carpenters, Local #405
- 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.
 - 32, or **34.8%** of respondents **said they would** like to review and comment on the draft plan.
 - 60, or **65.2%** of respondents said **they would not** like to review and comment on the plan draft.
 - 16 respondents skipped this question.
- 31 respondents 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.
- 21. Respondents were asked to provide any additional comments/suggestions/questions. The responses are summarized below:

- The County could provide a map showing risks to the community such as fault lines, gas lines, liquefaction areas, slide areas, etc
- I was the last SNAP captain of my neighborhood. I shut it down because of lack of participation. However, I regret doing this. Even this small group gave some "connection" to the neighborhood. If I had more time and some new creative idea of how to revive it, I would give it a try.
- I'm sure there is a lot more information freely available than I am aware of. Can you consolidate information to a single website?
- My greatest fear is that the police will prevent us from accessing our emergency supplies in the event of a disaster
- I've always wondered if we have a pod/storage unit with basic food/first aid kits/tents/portable toilets, etc in my neighborhood
- It would be great to have a public list of Sunnyvale's existing hazards and plans to correct them
- I commute to Newark daily and an earthquake is a big concern

Review Opportunities

A review draft of this plan was submitted to Cal EMA on June 6, 2011 and subsequently forwarded to FEMA for review and comment regarding compliance with the Disaster Mitigation Act of 2000. At that time the review draft was posted for public review on the websites of the Santa Clara County Office of Emergency Services and the Association of Bay Area Governments. The City of Sunnyvale Department of Public Safety website also provided a notification and link to the review draft. No comments were received on the review draft.

22.3 CAPABILITY ASSESSMENT

22.3.1 Mitigation Progress

22.3.1.1 Strategy Ranking

The City of Sunnyvale participated in ABAG's 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 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/eqmaps/mitigation/strategy.html. A summary of these rankings is presented in Sunnyvale Attachment 2: Sunnyvale Strategies 2010, in Section 22.7.

The countywide Local Planning Team reviewed the priorities as ranked by the participating Santa Clara County jurisdictions to determine the operational area goals and objectives. The City of Sunnyvale's primary objective is to increase resiliency and reduce risk to the predominant hazards of earthquake and flood. New mitigation actions the City of Sunnyvale has identified are discussed in Section 22.5.

22.3.1.2 Completed and Current Projects

All six of the City's fire stations were retrofitted in the mid 1990's.

The Public Works Department applied for a Pre-Disaster Mitigation grant (City of Sunnyvale Seismic Retrofit Project) to retrofit the City's water system. In 2004, G&E Engineering conducted a seismic vulnerability study of the City's water system. According to their findings, a magnitude 7.9 earthquake on the San Andreas Fault, would cause Sunnyvale's water system to fail. An earthquake of that magnitude would result in a prolonged loss of water service to over 131,000 people and the calculated loss of function of the water system for up to 60 days.

In the fall of 2010, the Santa Clara Valley Water District began final design plans for the Sunnyvale East and West Channels Flood Protection Project. This \$39 million project will provide flood protection to more than 1,600 parcels of land in Sunnyvale and is scheduled to begin construction in 2013.

Sunnyvale Water Delivery Reliability and Protection Improvements

Through a grant from the Department of Public Health (DPH) (application submitted August 2005) for Prop 50 funding the City of Sunnyvale received \$880,000.00. The city is currently ranked #104 out of 272 placeholders in the last Chapter 3 ranking list dated 2008.

This project provided funding to connect the Raynor and Ortega wells to the transmission water main linked to the Santa Clara Valley Water District (SCVWD) system. This gives the City the ability to supply the transmission main with well water in the event that SCVWD cannot provide treated water because of scheduled treatment plant shutdowns, source water contamination, large earthquake, accident, or equipment failure. Funding for this project also provided money to install concrete vaults, pressure-regulating valves, gate valves, flexible-expansion joint (flex-tend) fittings, and new limitorque motorized automatic valves and magnetic flow meters at all City connections to the San Francisco Public Utilities Commission (SFPUC) water supply system. The new motorized automatic valves gives the City the ability to remotely turn off the flow of water from the SFPUC using the new Supervisory Control and Data Acquisition (SCADA) system (underway) in case of scheduled plant shutdowns, source water contamination, large earthquake, or water system failure. The flexible expansion joints protect the City water connection with SFPUC from damage during an earthquake. The Raynor and Ortega wells were connected to the City's Wolfe Road main transmission line to allow water delivery to the Wolfe/Homestead area in case water from Hetch Hetchy or SCVWD is interrupted. This project was completed on December 9, 2010.

SCADA and Security Improvements

Grant application was sent to the Department of Public Health (DPH) August 2005 for Prop 50 funding and determined that the proposed project was eligible under this program. The City of Sunnyvale had requested \$1,151,000.00 of matching funding from Prop 50. The city is currently ranked #105 out of 272 placeholders in the last Chapter 3 ranking list dated 2008.

Municipal Supervisory Control and Data Acquisition (SCADA) Improvements project, consisting of furnishing and installing a SCADA telemetry system at a master station and 35 remote utility stations in the City of Sunnyvale. This new SCADA system will include radio communication, which is more reliable than phone lines during an emergency; a closed-circuit television camera system; and alarms and sensors at all remote sewer, storm water pumping stations, water pumping plants, reservoirs, and well sites. Plus, the system will provide controls on pressure-regulating valves and imported water valve sites so that staff can easily protect, isolate, and exclude the delivery of known or suspected contaminated water to customers. The cameras at the storm water pumping stations will rotate so that staff can observe the height of the water in the channel; this will provide advance warning of possible flooding in the northern part of Sunnyvale. Also included in the project are the Vulnerability Assessment-recommended security lighting and fencing measures around all water pumping plants and well sites. The City of Sunnyvale provides water to domestic, commercial, fire protection, medical facilities, high tech industry, high density housing, and government high-security facilities customers.

The SCADA system is being constructed in two phases. The City's existing SCADA system was completed under a Phase 1 Capital Project several years ago. The system monitors and controls the operation of the City's water supply and distribution system. Field locations connected to the SCADA system include nine City wells, six connections to the San Francisco Public Utility Commission (SFPUS) Hetch-Hetchy pipelines, ten water storage reservoirs, and one pressure station. The SCADA System phase 1 completed 27 sites allowing remote control access and monitoring capabilities providing information on tank levels, pump/motor and well operations, valves open/closed, and distribution water pressure and flow.

Phase II SCADA project is in the design phase. The project includes four major components: (1) replacement of the existing field hardware to the 37 water sites that need to be connected, (2) the addition of monitoring units at sewer, storm, and control units at several water operation pressure stations, (3) replacement and/or repair of the existing data Remote Terminal Units at the control center, and (4) provision of new communications technology (converting from overhead and buried telephone lines to radio communications) and power source. Design is expected to be completed in several months. Advertising for construction and construction will follow.

Other mitigation actions that the City of Sunnyvale has completed are discussed in the Mitigation Strategies section of the Seismic Safety Sub-Element of the General Plan, which is summarized in Section 22.3.2.4.1 of this Annex.

22.3.2 Staff and Organizational Capabilities

22.3.2.1 Departmental Responsibilities

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

Table 22-8: Key Departments in the City of Sunnyvale

Key Departments in the City of Sunnyvale

Departments

• City Manager

The City Manager serves as the chief executive officer responsible for day-to-day administration of City affairs and implementation of Council policies. As Council's chief adviser, the City Manager prepares a recommended budget for Council's consideration and recruits, hires, and supervises City staff. The department known as the Office of the City Manager is responsible for overseeing public information efforts, community relations, intergovernmental relations and city clerk duties, as well as internal services such as the City's print shop, facilities and fleet services. The Office of the City Manager is also home to the Economic Development division, which promotes and supports businesses throughout the City, and encourages new businesses to look to Sunnyvale as their future home.

o Facilities

Facilities Services staff maintain City buildings in a safe, functional, clean and cost effective manner for all users.

Fleet

Fleet Services supports City operations with a safe, functional and dependable fleet of vehicles at the lowest possible cost.

• Community Development

The Sunnyvale Community Development Department provides development services, long-range community planning, economic prosperity, and neighborhood stability. The hub of the department is the One-Stop Permit Center. The Center provides all development related services in one location including building permits, building inspections, business licenses, housing services, plan checking, planning permits, and other general services.

Public Safety

The Sunnyvale Department of Public Safety provides the community with Police, Fire, and Emergency Medical Services. The department also supports the community through education, community outreach, and fire and crime prevention services.

• Public Works

The Department of Public Works constructs, maintains and improves City infrastructure by providing traffic and transportation planning, pavement operations, street and tree maintenance, concrete maintenance, administration, engineering, water supply and distribution, sewer and stormwater collection and treatment, and solid waste disposal and recycling.

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.

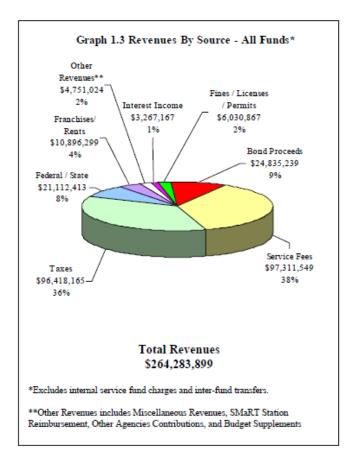
22.3.2.2 Technical Capability

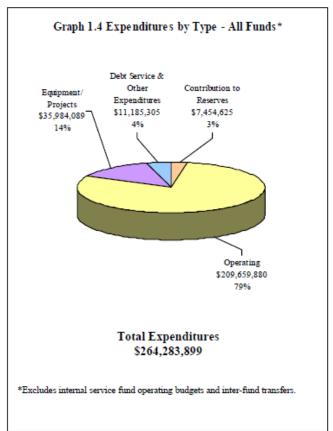
For a successful mitigation program, it is necessary to have a diverse breadth of staff and technical capabilities. Planners, engineers, building inspectors, emergency managers, floodplain managers, people familiar with Geographic Information Systems (GIS), and grant writers are all essential to implementing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

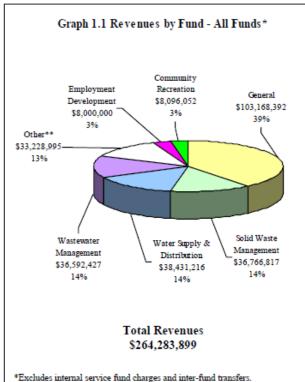
Table 22-9: Technical Capability Matrix

Technical Capability Matrix		
Land Use Planners	Community Development Division	
Emergency manager	Public Safety	
Civil or Building Engineers	Public Works	
Floodplain manager	Public Works	
Staff knowledgeable about hazards	Public Safety Public Works	
GIS staff	Information Technology	
Grant writers	Public Safety Public Works NOVA	

22.3.2.3 Fiscal Capability

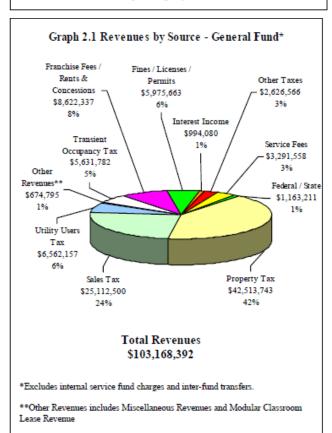








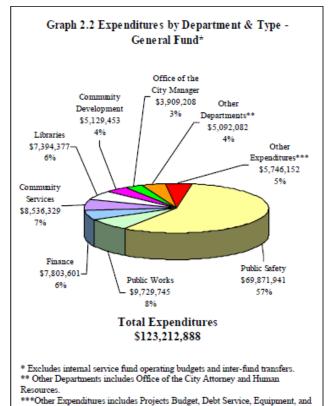
^{**}Other includes CDBG, Housing, Gas Tax, Youth and Neighborhood Services, Park Dedication and Redevelopment Agency Funds.



Graph 1.2 Expenditures by Fund - All Funds* Housing/ HOME Grant/ CDBG Community General \$10,407,160 \$123,212,888 Recreation Employment \$11,800.915 4% 48% Contribution to Development \$11,000,000 \$7,454,625 4% 3% Other** \$16,860,940 Solid Waste Management Wastewater Water Supply & \$32,857,388 Management Distribution 12% \$23,697,951 \$26,992,032 0% 10% Total Expenditures \$264,283,899

*Excludes internal service fund operating budgets and inter-fund transfers.

**Other includes Gas Tax, Youth and Neighborhood Services, Park Dedication and Redevelopment Agency Funds.

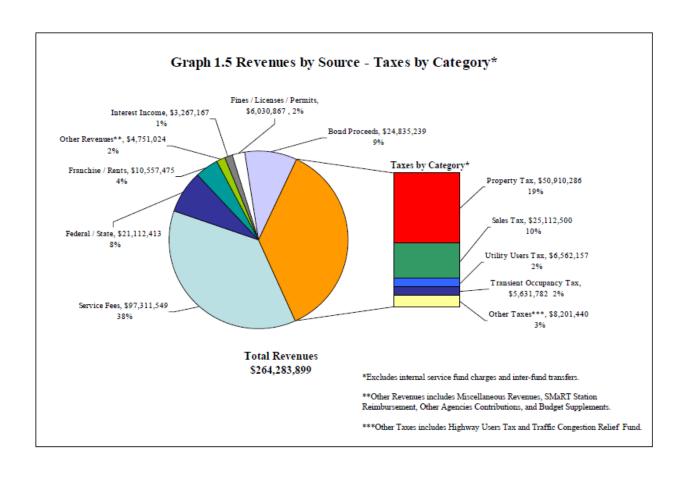


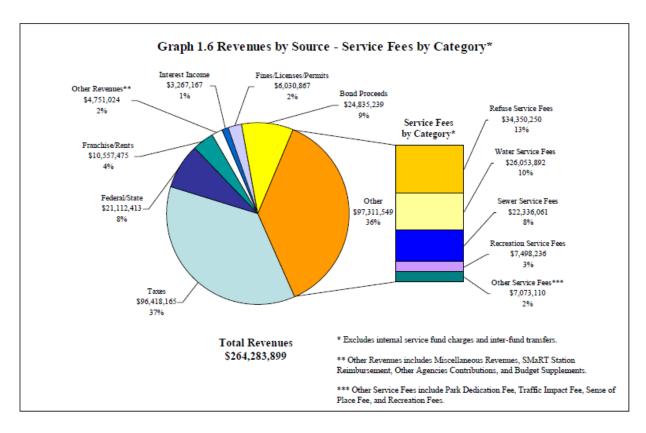
Payment to Town Center Developer.

Property Tax	42,513,743
Refuse Collection and Disposal Service Fees	34,350,250
Water Supply and Distribution Fees	26,053,892
Sales Tax	25,112,500
Bond Proceeds	24,835,239
Wastewater Management Service Fees	22,336,061
Special Assessment	8,396,543
Workforce Investment Act Grant	8,000,000
Recreation Service Fees	7,522,896
State Housing Grant	6.600.000
Utility Users Tax	6,562,157
Franchise Fees	6,110,996
Transient Occupancy Tax	5,631,782
Permits and Licenses	4,825,633
Other Taxes	4,644,242
Rents and Concessions	4,446,479
State Highway Users Tax (Gas Tax)	3,557,198
Federal Grants	3,540,378
Other Fees and Services	3,336,558
Interest Income	3,267,167
Park Dedication Fee	2,861,892
Miscellaneous Revenues	2,306,853
SMaRT Station Revenues*	1,775,015
Community Development Block Grant	1,338,319
Fines and Forfeitures	1,205,234
State Shared Revenues	874,833
Traffic Impact Fee	800,000
HOME Grant	758,883
Budget Supplements	347,000
Other Agencies Contributions	322,156
Sense of Place Fee	50,000

^{*} SMART Station Operations Reimbursement includes the City of Mountain View and the City of Palo Alto's reimbursement for SMART Station operating expenditures.

** Excludes internal service fund revenues.





22.3.2.4 Policy or Program Capability

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

22.3.2.4.1 Summary of Plans that Support Hazard Mitigation

Emergency Operations Plan

The City of Sunnyvale's Emergency Plan addresses the planned response that will be coordinated from the Emergency Operations Center (EOC) to emergency situations associated with natural disasters and technological incidents. The operational concepts reflected in this plan focus on potential large-scale emergencies that can generate unique situations requiring unusual response. Such emergencies pose major threats to life and property and can affect the well being of large numbers of people. The intent of the plan is to save lives and protect property by developing operational capabilities that mitigate, prepare for, respond to, and recover from any emergency or disaster.

The plan is organized in two parts. Part one is the Basic Plan which provides overall organizational and operational concepts for responding to various types of identified hazards that may affect the

City. Part Two is the Annex, which describes each of the emergency response functions in the Emergency Management Organization (EMO). Checklists for all emergency personnel, including the City Council, EOC Coordinator, Police, Fire, Public Works, and Volunteers, can be found in this section.

The Basic Plan identifies the following hazards as having a potential to affect Sunnyvale: earthquakes, fires, floods, hazardous materials incidents, severe winter storms, terrorism, and aircraft accidents. The Plan documents four phases that the City's response to disasters is based upon: increased readiness, initial response operations, extended response operations, and recovery operations. During each phase, specific actions are taken to reduce and/or eliminate the threat of specific disaster situations. The EOC is activated during the initial response and extended response operations.

Sunnyvale's communication systems include telephone and radio. Mutual aid radio systems also exist. Warning systems in Sunnyvale are limited to having public safety officers walk door-to-door or by using the public address system in their vehicles. Evacuation and movement operations will be determined by the EOC during the emergency.

A section of the Basic Plan is dedicated to Hazard Mitigation. After a disaster, the Hazard Mitigation Team uses information from the Notice of Interest (NOI) and Exhibit "B" forms, and visits selected sites where significant damage has occurred. A Federal representative compiles the findings into a Damage Survey Report (DSR). Local, State, and Federal preliminary damage assessments may be used to identify major hazards and opportunities for hazard mitigation prior to a declaration of a major disaster or emergency. DSRs should include identification of hazards and should recommend mitigation measures to be incorporated into the repair work. The Hazard Mitigation Team should review applicable land use regulations, construction standards and other appropriate hazard mitigation measures. Utilizing information from preliminary damage assessments, DSRs, and all other readily available pertinent information, the Team should visit the sites of significant damage and should evaluate all hazards at those sites. For each identified significant hazard, the Team should include appropriate recommendations for hazard mitigation measures in its final report.

Hazard mitigation measures are also outlined in the Basic Plan. These measures include:

- Avoidance: Following a disaster or major emergency, the Hazard Mitigation Team, for each hazard identified, should assess the feasibility of avoiding further construction in high-risk areas. Were new construction, alteration, or major repairs are involved in restoration of damaged or destroyed facilities, the Team will make specific recommendations concerning land use and rezoning regulations.
- Reduction: The effect of a disaster may be diminished by reducing the area or level of the hazard itself or by reducing the impact of the hazard on individual facilities. The Hazard Mitigation Team will recommend specific hazard reduction measures.

- Land Use Regulations: The Hazard Mitigation Team will survey, evaluate and make recommendations based on field observations on enhancing land use regulations.
- Construction Practices: The City is responsible for adopting or updating construction standards and enforcing them.

General Plan

Safety Element

The City actively encourages and requires property owners to maintain their properties and to preserve the safety and integrity of their structures through the Neighborhood Preservation Program. The City's Public Safety Department is one of the oldest fully-integrated Police, Fire, and Emergency Medical Services public entities in the United States. Each of the City's 210 sworn officers is highly trained and certified to perform the functions of police officer, firefighter, and emergency medical technician services. Together with the City management team, the staff prepares contingency plans to address possible future emergencies, ranging from an industrial explosion with toxic materials to a major earthquake. More than 90% of surveyed residents are satisfied with the City's Public Safety services.

Sunnyvale has a relatively low risk factor for fire loss and past fire experience has demonstrated Sunnyvale to be a relatively fire-safe community. The City maintains a trained and well equipped fire service to respond to fires and other incidents. While the potential for extraordinary disaster always exists, and while the aging process of the City and its buildings will have some adverse impact on fire loss, the overall environment is comparatively fire-safe.

The majority of Sunnyvale is located within the 100-year floodplain, although a 100-year flood event has never occurred in the City. The Santa Clara Valley Water District maintains Calabazas Creek, Stevens Creek, and the Sunnyvale East and West flood control channels, and has made numerous improvements to the channels to increase their capacity. These channels, coupled with the City's extensive 150 mile storm drain system, take the majority of surface run-off to the Bay. In addition, low lying areas in the northern areas of the City are assisted by two pumping stations.

Within the next few years, the Santa Clara Valley Water District has planned additional improvements to local creeks to ensure they will be able to contain the runoff from a 100-year flood. Sunnyvale enforces specific building code requirements in the flood prone areas to minimize potential property damage, including minimum foundation pad heights above the projected flood depth as specific on the Flood Insurance Rate Map (FIRM). The City participates in the National Flood Insurance Program Community Rating System. Without the present system of dikes and levees, parts of Sunnyvale would be subjected to flooding by tides. If these dikes and levees were to fail or their banks overflow, tidal flooding could occur. In 2006, the City's Department of Public

Works completed a capital improvement project to repair and strengthen the levees surrounding the holding ponds, reducing the chance that the levees would fail in the event of a major earthquake.

Land Use Element

Sunnyvale is nearly fully developed; only 0.5% of land is vacant. The City of Sunnyvale does not build housing, but through its land use regulations it can influence and control the type and quality of housing that is developed. With regard to commercial and industrial space, the adopted 1997 Land Use and Transportation Element of the General Plan would accommodate a total of 49 million square feet, about 14 million square feet more than currently exists. At today's intensity of building use, this would yield a total of about 160,000 jobs. When this figure is compared to the City's 2025 projection of 109,570 jobs for the city, it is apparent that Sunnyvale has more than adequate capacity for projected job growth.

Housing Element

Under the Sunnyvale General Plan, the State-required Housing element has become the Housing and Community Revitalization Sub-element, and is found under a broader Community Development element that includes Community Design, Open Space, and Seismic Safety.

The City actively participates in the State of California Seismic Hazards Mapping Program. All geotechnical reports received by the City are forwarded to the State of California for additional review. Un-reinforced masonry (URM) buildings are particularly susceptible to ground shaking. In compliance with URM legislation enacted 1986, Sunnyvale is continuing to perform hazard mitigation on URM buildings. Only ten URM buildings remain in Sunnyvale, all of which are located in the South Murphy Avenue historical area which is exempt from the State URM legislation; none of these URM's are residential structures.

Seismic Safety-Safety Sub-Element

The purpose of the Seismic Safety –Safety Sub-Element to Sunnyvale's General Plan is to examine seismic safety and other safety issues in Sunnyvale and to establish a planning document to guide land use decisions. The City believes that incorporating knowledge of existing safety hazards into the planning and development review process is essential.

Mitigation Strategies

Since this document was first written in 1984 and revised in June 2008, significant progress has been made in focusing on seismic safety and safety when considering land use and development issues. To improve the seismic safety of buildings, geotechnical reports are required for all developments in the City. Sunnyvale also identifies and performs hazard mitigation on un-reinforced masonry (URM)

buildings. There are 10 URM buildings in Sunnyvale, which are all located in the 100 block of South Murphy Avenue and reside in a historical area that is exempt from the State URM legislation. Many City buildings have been seismically retrofitted, including the Community Center, City Hall Annex, Library, Corporation Yard, Fire Station #2, and Senior Center. Seismic retrofits have also been completed on roadway over-crossings.

Sunnyvale requires automatic sprinklers systems, smoke detectors, and fire-resistant roofs to be installed in all new residential construction in an effort to mitigate fire hazards.

The Department of Public Safety staff implements an environmental regulatory program to monitor hazardous wastes and materials, which includes permitting, inspection, enforcement, and educational elements. Sunnyvale businesses that store large quantities of hazardous materials are required to develop risk management plans.

The City has also completed many infrastructure improvements. For example, two new emergency water transmission lines are located South of El Camino Real. The Santa Clara Valley Water District has also made improvements to creeks and channels in Sunnyvale to improve water flow and reduce the risk of flooding. Safety improvements to the Stevens Creek Reservoir and dam have been made so that they are both engineered to withstand an earthquake with a magnitude of 8.25 on the Richter Scale and the dam was raised ten feet to encourage run-off and the collection of water and to discourage landslides. A Capital Improvements Project to repair and strengthen levees surrounding ponds to reduce the chance that the levees will fail in the event of a major earthquake was completed in 2006. The undergrounding of power lines in Sunnyvale has taken place, particularly along Fremont Avenue between Wolfe Road and Belleville, to reduce the number of power outages resulting from severe weather.

In terms of emergency preparedness capabilities, Sunnyvale has been able to develop community emergency preparedness programs and to staff volunteer amateur radio operators, called SARES, to assist with communication during an emergency. A program called Sunnyvale Neighborhoods Actively Prepare, or SNAP, ensures that neighborhoods are self-reliant in the event of a major disaster. SNAP provides the structure, the materials, and the training necessary for residents to be self-sufficient for the first 72 hours following an earthquake or other disaster. The Office of Emergency Services provides oversight for the effective delivery of services in an emergency or disaster. The City maintains a state of readiness by providing training for the emergency management staff throughout the year. Project ARK, a disaster shelter program which involves the stocking of 40' sea-cargo containers with emergency supplies to accommodate up to 300 people for three days at eight designated school sites throughout the City.

In 2004, the City of Sunnyvale installed the Communicator, an emergency notification system which allows for emergency callbacks of staff. The Communicator is used in conjunction with Geocast, a system that defines notification areas and activates callout emergency information or

instructions to businesses and residents. Sunnyvale is in discussion to enhance its current technology by upgrading to a web based emergency communication system.

Additionally, the City operates its own Alert AM emergency advisory radio station at 1680 AM. Through the use of the radio, Sunnyvale has the ability to transmit real-time emergency information to the community.

The City's Dispatch Center utilizes the EMSystem as does other cities and the County. This web-based program provides public safety personnel and healthcare professionals' real time information on the current status of the County's Emergency Medical Public Health System (i.e., the availability of medical resources).

Planning and Development

The majority of industrial zoned land lies in the northern portion of the City, which is considered to be more vulnerable to damage resulting from an earthquake. As the land at or below sea level, a system of dikes and levees is necessary to maintain its status.

Water Resources Sub-Element

Sunnyvale's Water Resources Sub-Element to the General Plan details the City's water supply reliability issues and infrastructure replacement needs. The three key goals outlined in this document are to acquire and manage an adequate supply of water, to maintain reliable water distribution system infrastructure, and to ensure that water meets all quality, health, and regulatory standards.

Water Supply

Sources of the City's water supply include local groundwater wells, imported supplies from the Santa Clara Valley Water District (SCVWD) and the San Francisco Public Utilities Commission (SFPUC), and interagency connections with other local water suppliers in case of an emergency. Recycled water is also a source of water and acts as a drought-resistant supply for the City. This document assures that barring catastrophic events, the City of Sunnyvale has adequate supply commitments and facilities to reliably meet the projected water needs of its residents and businesses for the foreseeable future. It is a goal of the City to provide a redundancy in the water supply system so that potable water demand and fire suppression requirements can be met under both normal and emergency circumstances. The SFPUC system, however, needs to be upgraded and designed to current seismic standards so that it is able to deliver water even in the event of a major earthquake. SFPUC is therefore undertaking a Water System Improvement Program that will enhance the ability of its water supply system to meet identified service goals for water quality, seismic reliability, delivery reliability, and water supply.

In 2002, San Francisco and the SFPUC were required to prepare an emergency response plan, in consultation with the Bay Area Water Users Association, focusing on how water service can be restored promptly after an earthquake and prohibiting discrimination against wholesale customers in the allocation of water during such a crisis. The Bay Area Water Supply and Conservation Agency monitors the progress of SFPUC's Capital Improvements Program, in particular regional projects to enhance seismic safety.

SCVWD has an active conjunctive use program to optimize the use of groundwater and surface water, and to prevent groundwater overdraft and land subsidence. The SCVWD completed a Water Infrastructure Reliability Project in 2005 that assessed the vulnerability of its regional raw and treated water delivery systems. The study identified the following hazards as those that pose a risk to system functionality: San Andreas Fault magnitude 7.0 earthquake, Southern Hayward Fault magnitude 6.67 earthquake, 100 year flood, 500 year flood, and a regional electric power outage.

Water System and Infrastructure

Approximate 80% of the water main pipelines serving Sunnyvale were constructed in the 1960's and the remainder in the 1980's. The 1960's pipelines will reach their estimated 50 year useful service life within the next several years and will need to be improved. Sunnyvale has established methods to provide resources for the repair, replacement, and rehabilitation of the water system and these projects are of high priority in the City's Capital Improvements Plan. The City's fire hydrants are also continuously maintained so they can be used to mitigate fire hazards.

Water Demand and Demand Management

On-going water conservation efforts have led to the City decreasing the amount of water used in Sunnyvale per day. Increased use of recycled water is another City controlled method to reduce demand for potable supply. They City's drought response is based on the Sunnyvale Water Conservation Plan. This plan includes mandatory and voluntary water use restrictions associated with different levels of reduction and approaches for enforcement. ABAG projections show an increase in jobs in 2010 that would increase the amount of water the commercial sector would require. Given the almost complete build-out of land in the City, Sunnyvale expects multi-family water demand to increase in the future when older, low-density housing is replaced by high-density home developments.

Floodplain Management Ordinance

In an effort to reduce the risk of loss of life, health, and property due to periodic flood inundation, the City of Sunnyvale has developed a Prevention of Flood Damage Ordinance. The ordinance is designed to minimize the expenditure of public money for flood control projects, the need for rescue and relief efforts, business interruptions, and damage to public facilities and utilities. The ordinance also ensures that potential buyers are notified that property is in an area of special flood hazard and

that those who occupy property in those areas are held responsible for their actions. The Director of Community Development is responsible for enforcing this ordinance.

One of the provisions of this plan is that a development permit must be obtained before any construction or development begins and that certain construction standards such as; anchoring, building with flood resistant materials, and elevating and flood proofing, are required within an area of special flood hazard. The plan also enforces that new and replacement water and sanitary sewage systems should be designed to minimize flood water infiltration and discharge into flood waters. Standards are also included for subdivisions and manufactured homes. Since floodways are extremely hazardous, no new development is permitted to be constructed in these areas unless certification by a professional engineer or architect is provided demonstrating that the development will not increase base flood elevations. This ordinance also has special regulations for new development within a coastal high hazard area. These regulations ensure that new construction is located on the landward side of the reach of mean high tide, the space below the lowest floor is free of obstructions or constructed with breakaway walls and is not used for human habitation, there is no manmade alteration of sand dunes, and that fill is not used as structural support of a building.

Capital Improvements Plan

The City of Sunnyvale lists various projects in their Capital Improvement Program (CIP) that are currently being undertaken by the Public Works Department, many of which may help mitigate potential hazards. In the downtown section, an investigation and remediation of HAZMAT is taking place. Numerous street and traffic projects such as bridge repairs, roadway and pavement rehabilitation, installing bike and pedestrian corridors, sidewalk replacement, curb and gutter replacement and traffic signal replacement are designed to maintain roads and minimize traffic and pedestrian accidents. Undergrounding of overhead utilities is being considered to reduce potential hazards from down power lines. An inspection and evaluation of bridges and levees is scheduled to take place in an effort to ensure safety and to create a database of the study's findings. Replacement, maintenance, and emergency backup of infrastructure for the City's storm/sanitary and water systems are also listed as active projects in Sunnyvale's CIP. These projects may mitigate a possible utility mishap within the City.

Downtown Revitalization

The City of Sunnyvale created an Environmental Impact Report for their Downtown Improvement Program to describe the potential impacts the project has on soil and geologic conditions and to identify mitigations for potentially significant effects.

It has been determined that the project site would not be subject to landsliding or other slope instability hazards because it is situated on generally level land. In addition, erosion hazards during construction are expected to be low due to the gentle slopes and relatively high percentage of existing

impervious surfaces. Therefore, since no significant impact has been identified, no mitigation strategies have been required.

Downtown development and infrastructure improvements facilitated by the project may be subject to foundation and infrastructure damage from expansive soils or settlement of soils. In an effort to mitigate this potentially significant impact, the City should follow normal procedures and require and review of geologic reports that describe potential hazards and identify engineering specifications necessary to reduce all ground failure risks to an acceptable level.

All urban development in the region are subject to strong to very strong seismic shaking and possible liquefaction in the event of a major earthquake on the Hayward, San Andreas, or Calaveras fault systems. This project would be designed and in accordance with the Uniform Building Code guidelines for Seismic Zone 4 to avoid or minimize potential damage from seismic shaking. These measures would be expected to reduce project-related seismic safety impacts to less than significant levels.

22.3.2.4.2 Summary of Ordinances that Support Hazard Mitigation

Table 22-10: Availability of Ordinances that Support Hazard Mitigation

Availabili	Availability of Ordinances that Support Hazard Mitigation							
Jurisdiction	Flood Plain Management Ordinance	Zoning Ordinance	Subdivision Ordinance	Post-disaster Red/Rec. Ordinance	Building Code	Fire Code	National Flood Insurance Program	NFIP Community Rating System
City of Sunnyvale	Yes	Yes	Yes		Yes	Yes	Yes	Yes

The City of Sunnyvale has an ADA policy which strives to install as many handicap ramps as possible.

The City has adopted the 2007 International/State Building Code.

CRS and NFIP programs are in place to facilitate mitigation strategies. Every year in September the City of Sunnyvale recertifies its Community Rating System Class 7 rating with FEMA.

City of Sunnyvale Municipal Code 12.60 Storm Water Management

The purpose of this chapter is to provide regulations and give legal effect to certain requirements of the National Pollutant Discharge Elimination System (NPDES) permit issued to the city of Sunnyvale regarding municipal storm water and urban runoff requirements. It is a violation of this code for any land owner to fail to properly operate and maintain any approved storm water treatment facilities, hydromodification management facilities and/or source control best management practices on the owner's property. It is a further violation for any land owner to fail to follow any storm water management plan submitted and approved by city unless a modification to the plan is later approved in writing by the authorized enforcement official and such modification is thereafter recorded in the same manner as the original agreement.

City of Sunnyvale Municipal Code 16.16.20 Building Code for the City of Sunnyvale

16.16.020. Adoption by reference.

The "2006 International Building Code" with State amendments, including appendices 1, C, I, and J, is hereby adopted by reference, with changes and modifications as hereinafter set forth, as the building code of the city of Sunnyvale. (Ord. 2852-07 § 2).

City of Sunnyvale Municipal Code 16.62 Prevention of Flood Damage

Floodplain management and prevention of damage from flooding was identified as a method for implementing hazard mitigation strategies. This plan is reviewed as how it pertains to hazard mitigation in the Floodplain Management Ordinance section above.

22.3.3 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. There have been no issues with community participation in Sunnyvale.

The City of Sunnyvale has participated in the National Flood Insurance Program since 1974. All residents of the City are eligible to purchase federal flood insurance. The City continues to maintain full compliance with the NFIP.

Since the last plan, a new digital Flood Insurance Rate Map was issued in May 2009, allowing residents and businesses to view their property via the internet. A project with Santa Clara water

Valley District that went into effect in February 2010 removed several hundred structures from the floodplain adjacent to Calabazas Creek.

To continue compliance with the NFIP, Sunnyvale conducts a review of CRS related activities and reports these to FEMA annually. In September 2009, the State Department of Water Resources conducted a Community Assistance Visit (CAV) and gave a favorable opinion of the City's flood control practices. The only hurdle for effective implementation of the NFIP that the City has identified is that retrofitting older structures to raise them above the floodplain is costly.

Aside from using FEMA flood maps to regulate flood hazard areas, Sunnyvale's Building Division identifies any new development in a floodplain and advises the builder on ways to protect the project from flooding.

22.3.3.1 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 Sunnyvale joined the Community Rating System in October 1998 and has a current class rating of 7. Properties within FEMA's Special Flood Hazard Areas in Sunnyvale receive a 15% reduction in flood insurance rates. Properties outside the SFHA within Sunnyvale receive a 5% discount in flood insurance rates.

22.3.3.2 Repetitive Loss Properties

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

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 database on ABAG's website shows that the City of Sunnyvale has one repetitive flood loss property. This property has been mitigated and is technically removed from FEMA's repetitive loss property listing, but will continue to be shown as a mitigated repetitive loss. Correspondence included as Attachment 4 provides additional information regarding the removal of this property from concern for future repetitive losses.

City and County	Total Payments (\$)	Average Payment (\$)	Losses	Properties	Properties (as of 2004)
Sunnyvale	30,730.37	15,365.19	2	1	0

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

22.3.4 Resource List:

Documents used in the assembly of this Capability Assessment include: City website, City FY10/11 Budget, General Plan, Floodplain Management Ordinance, Capital Improvements Plan, City of Sunnyvale Municipal Code 12.60 Storm Water Management, City of Sunnyvale Municipal Code 16.16.20 Building Code for the City of Sunnyvale, and City of Sunnyvale Municipal Code 16.62 Prevention of Flood Damage.

22.4 VULNERABILITY ASSESSMENT

22.4.1 Critical Facilities

During the development of this 2011 annex, the City identified 66 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 22-11.

Table 22-11: City of Sunnyvale Critical Facilities

Facility Name	Address		
Corporation Yard Garage & Whse	221 Commercial Street		
Corporation Yard Main Building	221 Commercial Street		
Corporation Annex	221 Commercial Street		
Corporation Yard Utility Building	221 Commercial Street		
Lakewood Park Recreation Building	834 Lakechime Drive		
Fire Station #5- Lockheed Wy	1120 Lockheed Way		
Fire Station #4- Wolfe / Maria Ln	996 Wolfe Road		

Facility Name	Address
Mary-Carson Tank / Pump Station	7.44.000
complex	155 Mary Avenue
Mary-Carson Reservoir 1	155 Mary Avenue
Fire Station #6- Lawrence Sta.	1282 N. Lawrence Station Road
San Lucar -Kifer Lift Station Reservoir	1300 Kifer
Lawrence Lift Station	100 Old Mountain View Road
Baylands Park Recreation Building /	
Office	999 E. Caribbean
Storm Pump House 1	999 E. Caribbean
Columbia Park Recreation Building	801 Morse Avenue
Fair Oaks Park Recreation Building	540 Fair Oaks Avenue
Fire Station #2- Arques	795 E. Arques Avenue
Fire Station #1- Calif/Mathilda	171 N. Mathilda Avenue
Murphy Park Recreation Building	236 N. Sunnyvale Avenue
Schroeder Pump Station	Schroeder
Mary-Carson Reservoir 2	155 Mary Avenue
Fire Station #3 Ticonderoga	910 Ticonderoga Drive
Community Center - Recreation	o re memberega zinte
Center	550 E. Remington Drive
Community Center - Sports Center	550 E. Remington Drive
Jackpine pump site	737 Jackpine Ct
National Guard Armory	485 N. Wolfe Road
City Hall	456 W. Olive Avenue
City Hall Annex	650 W. Olive Avenue
Jamestown (Losse) Pump Station	1118 Jamestown
Las Palmas Park Recreation Building	850 Russet Drive
Library	665 W. Olive Avenue
Public Safety Building	700 All America Way
Ajax / Liquidamber Tank site - Wolfe /	
Evelyn Pump Station	755 Ajax Drive
Braly Park Recreation Building	704 Daffodil Court
Ponderosa Park Recreation Building	811 Henderson Avenue
Raynor Park Recreation Building	1565 Quail Avenue
Washington Park Recreation Building	840 W. Washington Avenue
Central Well site	Mc Kinley Avenue and Central
Central Reservoir 1	Mc Kinley Avenue and Central
Central Reservoir 2	Mc Kinley Avenue and Central
Community Center - Performing Arts	550 E. Remington Drive
Community Center - Creative Arts	
Center	550 E. Remington Drive
Community Center - Arboretum	550 E. Remington Drive
Senior Center	550 E. Remington Drive
De Anza Park Recreation Building	1150 Lime Drive
Hamilton Tank / Pump Station	
complex	1200 Bernardo

Facility Name	Address		
Hamilton Reservoir 1	1200 Bernardo		
	1-44 - 411141141		
Hamilton Reservoir 2	1200 Bernardo		
Hamilton Reservoir 3	1200 Bernardo		
Ortega Park Recreation Building	636 Harrow Way		
Serra Park Recreation Building	730 The Dalles		
Serra Pump Station	737 The Dalles		
Wright Ave Tank / Pump Station			
complex	1773 Wright Avenue		
Wright Ave Reservoir 1	1773 Wright Avenue		
Wright Ave Reservoir 2	1773 Wright Avenue		
Sunnyvale Landfill	301 Carl Road		
Water Pollution Control Plant-PGF	1444 Borregas Avenue		
Water Pollution Control Plant-Primary	1444 Borregas Avenue		
Water Pollution Control Plant-			
Digesters	1444 Borregas Avenue		
Water Pollution Control Plant-Reactors	1444 Borregas Avenue		
Water Pollution Control Plant-Media			
Filters	1444 Borregas Avenue		
Water Pollution Control Plant-Chlorine			
Tanks	1444 Borregas Avenue		
Water Pollution Control Plant-			
Dewatering System	1444 Borregas Avenue		
Water Pollution Control Plant-Admin.	1444 Borregas Avenue		
SMaRT Station	301 Carl Road		
Storm Pump House 2	1444 Borregas Avenue		

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

22.4.2 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 22.4.2.1.

22.4.2.1 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 landuse and infrastructure in the City of Sunnyvale. 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: Sunnyvale COUNTY: Santa Clara HAZARD: Land Use

BASIS: Existing Land Use, 2005 using 2009 hazard mapping

Total Acres
5,073
4
51
3,217
1,596
205
0
0
0
0
0
1,941
306
1,237
345
52
2,669
2,570
45
0
0
0

Municipal Wastewater Facilities	11
Municipal Water Supply Facilities	1
Communication Facilities	41
InfrastructureOther, Unknown	0
TOTAL MILITARY:	86
Military Residential	0
Military Hospital	0
Military Communications	0
Military Airport or Port	0
General Military	9
Open Military Lands	0
Closed Military Facilities	77
TOTAL COMMERCIAL/SERVICES [excluding mixed]:	1,776
Subtotal-Commercial:	1,235
Retail/Wholesale	548
Research/Office	537
Comm. Outdoor Recreation	67
Other, Mixture or Unknown	83
Subtotal-Education:	414
Educational Offices and Day Care	0
Elementary/Secondary	411
Colleges/Universities	0
Stadium Facilities	0
University Housing	0
Day Care Facilities	3
Subtotal-Hospitals and Health Care	15
Trauma Center Hospitals	0
Community or Local Hospitals	9
Surgery Centers	0
State Prisons	0
State Mental Health Facilities	0
Clinics and Long-Term Care	6
Subtotal-Public Institutions:	112
Convention Centers	0
Sports Stadiums	0
Churches/Synagogues/Other	62
City Halls/County Administration	8
	0
Local Jails	· · · · · · · · · · · · · · · · · · ·

Other-Comm. Centers/Libraries	30
TOTAL URBAN OPEN:	763
Golf Courses	180
Racetracks	0
Campgrounds and Other	0
Campgrounds and other Cemeteries	0
Parks	400
VacantCleared for Redevelopment	25
VacantUndeveloped	86
Mixed Urban Open, Including Parks	72
TOTAL AGRICULTURE:	12
Cropland and Pasture	9
Orchards/Groves/Vineyards	0
Greenhouses	3
Confined Feeding	0
Farmsteads and Inactive	0
Turnistedds and maetre	J
TOTAL RANGELAND:	56
Herbaceous Range	2
Shrub and Brush	1
Mixed Range	53
TOTAL WETLANDS [Based on USGS Mapping]:	1,636
Forested	0
Non-Forested	0
Salt Evaporators	1,636
WetlandsUnknown	0
TOTAL FOREST LAND:	0
Deciduous	0
Evergreen	0
Mixed Forest	0
TOTAL SPARSELY VEGETATED:	7
Beaches	0
Other Sand	0
Bare Rock	0
Mines/Quarries	0
TransitionalLandfills	6
TransitionalOther	0

TransitionalMixture	0
Mixed Sparsely Vegetated	0
	=======
	<u>Total Acres</u>
TOTAL URBAN LAND:	12,308
TOTAL NON-URBAN LAND:	1,711
GRAND TOTAL:	14,019

Source: Association of Bay Area Governments, 2009.

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

JURISDICTION: Sunnyvale COUNTY: Santa Clara HAZARD: Land Use

BASIS: Existing Infrastructure, 2009

	Total Miles
	10tai willes
ROADS:	419
Interstate Highway	18
Primary US/State Highway	7
Secondary State/Co Highway	77
Local Road	264
Misc Ramp/Road	52
TRANSIT:	7
Altamont Commuter Express (ACE)	0
Amtrak	0
Bay Area Rapid Transit (BART)	0
Caltrain	3
San Francisco Muni Metro	C
Santa Clara VTA	4
RAIL:	5
All Railroads	5
PIPELINES:	343
Pipelines Under Roads	343
	=======

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.

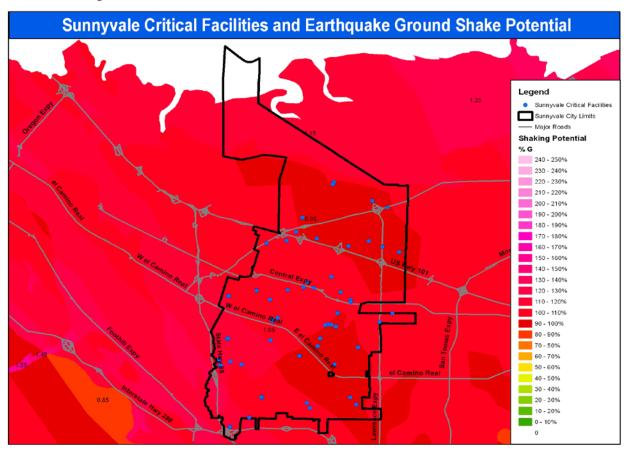
22.4.2.2 Critical Facilities Exposure by Hazard

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 Sunnyvale Attachment 3: Sunnyvale Exposure Analysis.

22.4.2.2.1 Earthquake Related Hazards

Ground Shaking



Source: CA Department of Conservation

			Bldg	Contents
Critical		Peak	Insured	Insured
Facility	Address	Acceleration	Value	Value
Hamilton				
Well and				
Motor Control				
Center	1200 Bernardo Avenue	115	\$2,427,000	
Hamilton				
Well				
Reservoir 1, 2				
& 3	1200 Bernardo Avenue	115	\$1,984,000	

			Bldg	Contents
Critical		Peak	Insured	Insured
Facility	Address	Acceleration	Value	Value
Losse Well				
and Motor				
Control				
Center				
(standby)	1118 Jamestown Drive	115	\$585,000	
Fire Station				
#3				
Ticonderoga	910 Ticonderoga Drive	115	\$944,000	\$199,000
Jamestown				
(Losse) Pump				
Station	1118 Jamestown	115	\$585,000	
De Anza Park				
Recreation				
Building	1150 Lime Drive	115	\$242,000	\$21,000
Hamilton				
Tank / Pump				
Station				
complex	1200 Bernardo	115	\$771,000	
Hamilton				
Reservoir 1	1200 Bernardo	115	\$809,000	
Hamilton				
Reservoir 2	1200 Bernardo	115	\$809,000	
Hamilton				
Reservoir 3	1200 Bernardo	115	\$809,000	
Wright Ave				
Tank / Pump				
Station				
complex	1773 Wright Avenue	115	\$764,000	
Wright Ave				
Reservoir 1	1773 Wright Avenue	115	\$3,893,000	
Wright Ave				
Reservoir 2	1773 Wright Avenue	115	\$3,893,000	
Westmoor				
Wellsite and				
Motor Control				
Center	829 Homestead Road	115	\$614,000	\$0
Wolfe-Evelyn				
Reservoir 1	755 Ajax Drive	105	\$3,893,000	
San Lucar				
Tank/Pump				
Station				
Complex	122 San Lucar Court	105	\$1,452,000	

Critical		Peak	Bldg Insured	Contents Insured
Facility	Address	Acceleration	Value	Value
San Lucar				
Reservoir	122 San Lucar Court	105	\$2,039,000	
Mary Hetch				
Hetchy Turn				
Outs	1101 Maude Avenue	105	\$0	
Lockheed				
Hetch Hetchy				
Turn Outs	548 Ross Drive	105	\$185,000	
Palomar				
Hetch Hetchy				
Turn Outs	981 Almanor Avenue	105	\$0	
SCADA				
Operation	221 Commercial Street	105	\$1,140,000	
Ortega Well				
and Motor				
Control		105	#1 00 6 000	
Center	676 Inverness Way	105	\$1,006,000	
Serra Well				
and Motor				
Control	737 The Dalles	105	\$813,000	
Center	737 The Danes	103	\$613,000	
Corporation Yard Garage				
& Whse	221 Commercial Street	105	\$3,939,000	\$889,000
Corporation	221 Commercial Street	103	\$3,939,000	\$669,000
Yard Main				
Building	221 Commercial Street	105	\$1,831,000	\$225,000
Corporation	221 Commercial Street	100	Ψ1,021,000	Ψ225,000
Annex	221 Commercial Street	105	\$2,605,000	
Corporation			. , ,	
Yard Utility				
Building	221 Commercial Street	105	\$2,090,000	
Mary-Carson				
Tank / Pump				
Station				
complex	155 Mary Avenue	105	\$1,181,000	
Mary-Carson				
Reservoir 1	155 Mary Avenue	105	\$3,893,000	
Fire Station	<u>,</u>			
#6- Lawrence				
Sta.	1282 N. Lawrence Station Road	105	\$810,000	\$155,000

Critical		Peak	Bldg Insured	Contents Insured
Facility	Address	Acceleration	Value	Value
San Lucar -	Address	Acceleration	vaiue	value
Kifer Lift				
Station				
Reservoir	1300 Kifer	105	\$2,030,000	
Columbia	1300 Kilei	103	\$2,039,000	
Park				
Recreation				
Building	801 Morse Avenue	105		
Fair Oaks	801 Worse Avenue	103		
Park				
Recreation				
Building	540 Fair Oaks Avenue	105	\$428,000	\$107,000
Fire Station	540 Fall Oaks Avenue	103	ψ428,000	\$107,000
#2- Arques	795 E. Arques Avenue	105	\$2,568,000	\$351,000
Fire Station	795 E. Arques Avenue	103	\$2,300,000	\$331,000
#1-				
Calif/Mathilda	171 N. Mathilda Avenue	105	\$1,120,000	\$251,000
Murphy Park	171 IV. Watimda Avenue	103	φ1,120,000	Ψ231,000
Recreation				
Building	236 N. Sunnyvale Avenue	105	\$967,000	\$95,000
	230 14. Builty vale 11 vende	105	Ψ>07,000	Ψ>2,000
Schroeder	G 1 1	105	¢40,000	
Pump Station	Schroeder	105	\$48,000	
Mary-Carson				
Reservoir 2	155 Mary Avenue	105	\$3,893,000	
City Hall	456 W. Olive Avenue	105	\$9,162,000	
City Hall				
Annex	650 W. Olive Avenue	105	\$3,655,000	\$588,000
Las Palmas				
Park				
Recreation				
Building	850 Russet Drive	105	\$392,000	\$39,000
Library	665 W. Olive Avenue	105	\$10,888,000	\$8,506,000
Public Safety				
Building	700 All America Way	105	\$12,514,000	\$2,503,000
Washington				
Park				
Recreation				
Building	840 W. Washington Avenue	105	\$776,000	\$26,000
Central Well				
site and Motor				
Control	Mc Kinley Avenue and Central	105	\$374,000	

Critical Facility	Address	Peak Acceleration	Bldg Insured Value	Contents Insured Value
Center				
Central				
Reservoir 1	Mc Kinley Avenue and Central	105	\$505,000	
Central				
Reservoir 2	Mc Kinley Avenue and Central	105	\$809,000	
Ortega Park				
Recreation				
Building	636 Harrow Way	105	\$319,000	\$22,000
Serra Park				
Recreation	500 FI D II	105	#2.42 000	ф 22 000
Building	730 The Dalles	105	\$243,000	\$22,000
Serra Pump	727 FI D II	107	Ф012 000	
Station	737 The Dalles	105	\$813,000	
Sunnyvale	201 Cad Daad	105		
Landfill	301 Carl Road	105		
SMaRT Station	301 Carl Road	105	\$14.291.000	\$13,000,000
	301 Cari Roau	103	\$14,281,000	\$13,000,000
Wolfe-Evelyn Tank/Pump				
Station	755 Ajax Drive	95	\$1,277,000	
Borregas	733 Ajax Diive)3	ψ1,277,000	
Hetch Hetchy				
Turn Outs	924 Borregas Avenue	95	\$195,000	
Fair Oaks)2 i Bollegas I i enac		φ192,000	
Hetch Hetchy				
Turn Outs	642 Greenlake Drive	95	\$0	
Lawrence				
Hetch Hetchy	Lawrence EXPY / Lakehaven			
Turn Outs	Drive	95	\$375,000	
Raynor Well				
and Motor				
Control	Dunford Way & Partridge			
Center	Avenue	95	\$1,299,000	
Lakewood				
Park				
Recreation			***	* ***********************************
Building	834 Lakechime Drive	95	\$338,000	\$58,000
Fire Station				
#5- Lockheed	11201 11 177	0.5	фо о2 000	ф10 7 .000
Wy	1120 Lockheed Way	95	\$902,000	\$187,000

Critical		Peak	Bldg Insured	Contents Insured
Facility	Address	Acceleration	Value	Value
Fire Station				
#4- Wolfe /	006777.16 P	0.5	#00 2 000	#100.000
Maria Ln	996 Wolfe Road	95	\$892,000	\$180,000
Lawrence Lift			42.52.000	
Station	100 Old Mountain View Road	95	\$262,000	
Baylands Park				
Recreation				
Building /				
Office	999 E. Caribbean	95	\$1,130,527	
Storm Pump			44.40.5000	
House 1	999 E. Caribbean	95	\$1,206,000	
Community				
Center -				
Recreation			42.024.000	*** *********************************
Center	550 E. Remington Drive	95	\$3,831,000	\$370,000
Community				
Center -				
Sports Center	550 E. Remington Drive	95	\$4,681,000	\$168,000
Jackpine				
pump site	737 Jackpine Ct	95		
National				
Guard				
Armory	485 N. Wolfe Road	95	\$933,660	
Ajax /				
Liquidamber				
Tank site -				
Wolfe /				
Evelyn Pump				
Station	755 Ajax Drive	95	\$1,227,000	
Braly Park				
Recreation	504 B 66 111 G		#200 000	420 000
Building	704 Daffodil Court	95	\$390,000	\$39,000
Ponderosa				
Park				
Recreation	011.77			420.000
Building	811 Henderson Avenue	95	\$465,000	\$39,000
Raynor Park				
Recreation				
Building	1565 Quail Avenue	95	\$969,000	
Community				
Center -				
Performing	550 E. Remington Drive	95	\$3,776,000	\$182,000

			Bldg	Contents
Critical		Peak	Insured	Insured
Facility	Address	Acceleration	Value	Value
Arts				
Community				
Center -				
Creative Arts				
Center	550 E. Remington Drive	95	\$2,055,000	\$308,000
Community				
Center -				
Arboretum	550 E. Remington Drive	95	\$413,000	\$152,000
Senior Center	550 E. Remington Drive	95	\$7,882,000	\$605,000
Water				
Pollution				
Control Plant-				
PGF	1444 Borregas Avenue	95	\$18,000,000	
Water				
Pollution				
Control Plant-				
Primary	1444 Borregas Avenue	95	\$5,069,000	\$237,000
Water				
Pollution				
Control Plant-				
Digesters	1444 Borregas Avenue	95	\$11,214,000	
Water				
Pollution				
Control Plant-				
Reactors	1444 Borregas Avenue	95	\$9,714,000	
Water				
Pollution				
Control Plant-				
Media Filters	1444 Borregas Avenue	95	\$5,845,000	
Water				
Pollution				
Control Plant-				
Chlorine				
Tanks	1444 Borregas Avenue	95	\$3,590,000	\$200,000
Water				
Pollution				
Control Plant-				
Dewatering				
System	1444 Borregas Avenue	95	\$980,000	

Critical		Peak	Bldg Insured	Contents Insured
Facility	Address	Acceleration	Value	Value
Water				
Pollution				
Control Plant-				
Admin.	1444 Borregas Avenue	95	\$1,132,000	\$157,000
Storm Pump				
House 2	1444 Borregas Avenue	95	\$734,000	
Fairwood				
Park				
Buildings	1255 Sandia Ave	95	\$41,000	\$7,000

All facilities are at risk to "Violent" perceived shaking and "Heavy" potential damage.

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 Sunnyvale had 415 soft-first story multi-family buildings including 7,439 residential units housing 18,598 occupants. Figure 22-1 below identifies the locations of these buildings.

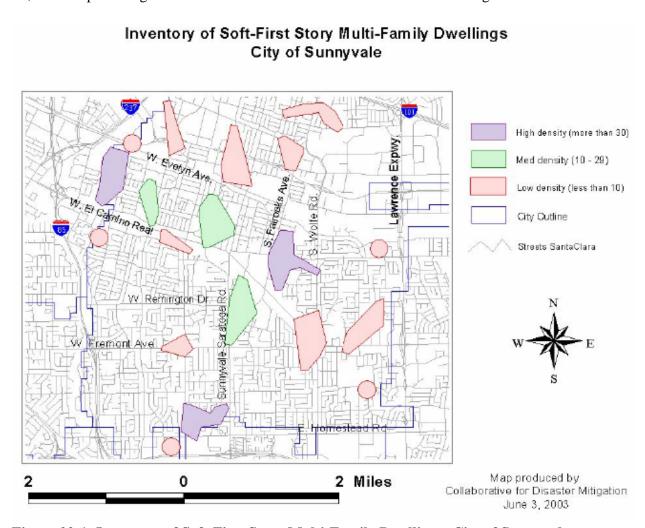
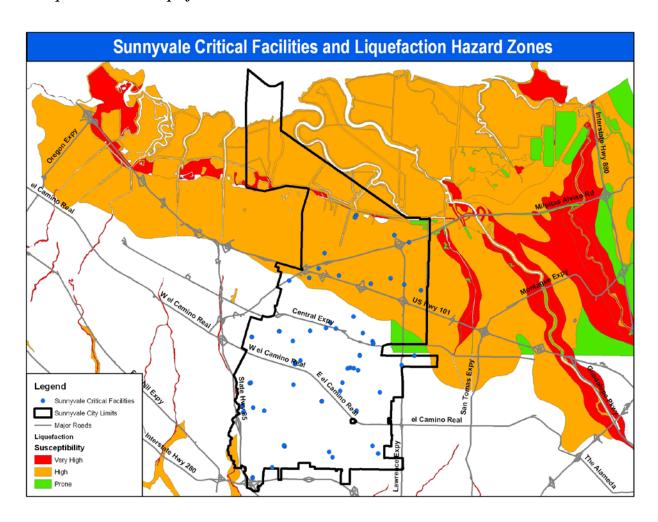


Figure 22-1: Inventory of Soft-First Story Multi-Family Dwellings- City of Sunnyvale

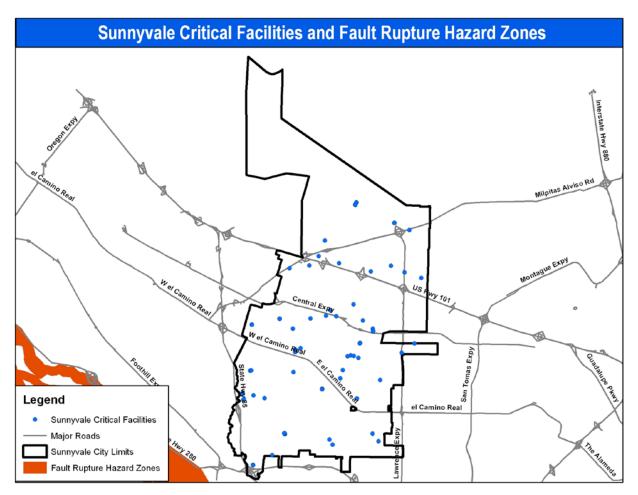
Earthquake Induced Liquefaction



Source: Santa Clara Planning Office

		Liquefactio n Hazard	Bldg Insured	Contents Insured
Critical Facility	Address	Zone	Value Value	Value
Borregas Hetch Hetchy Turn				
Outs	924 Borregas Avenue	High	\$195,000	
Fair Oaks Hetch Hetchy Turn				
Outs	642 Greenlake Drive	High	\$0	
Lockheed Hetch Hetchy Turn				
Outs	548 Ross Drive	High	\$185,000	
Palomar Hetch Hetchy Turn Outs	981 Almanor Avenue	High	\$0	
Lakewood Park Recreation				
Building	834 Lakechime Drive	High	\$338,000	\$58,000
Fire Station #5- Lockheed Wy	1120 Lockheed Way	High	\$902,000	\$187,000

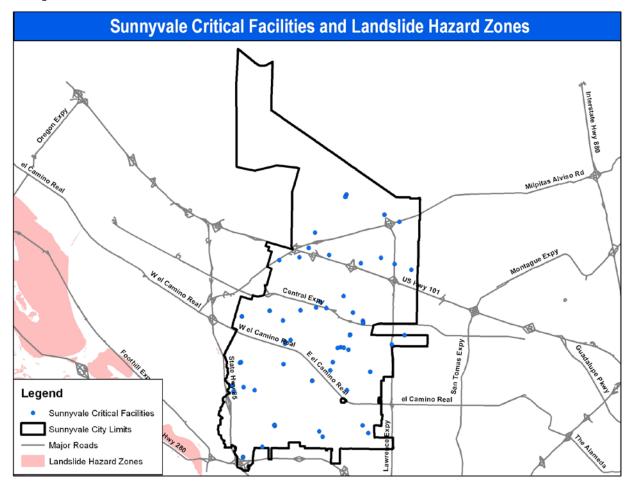
		Liquefactio n Hazard	Bldg Insured	Contents Insured
Critical Facility	Address	Zone	Value	Value
Sunnyvale Landfill	301 Carl Road	High		
Water Pollution Control Plant-				
PGF	1444 Borregas Avenue	High	\$18,000,000	
Water Pollution Control Plant-				
Primary	1444 Borregas Avenue	High	\$5,069,000	\$237,000
Water Pollution Control Plant-				
Digesters	1444 Borregas Avenue	High	\$11,214,000	
Water Pollution Control Plant-				
Reactors	1444 Borregas Avenue	High	\$9,714,000	
Water Pollution Control Plant-			, , ,	
Media Filters	1444 Borregas Avenue	High	\$5,845,000	
Water Pollution Control Plant-				
Chlorine Tanks	1444 Borregas Avenue	High	\$3,590,000	\$200,000
Water Pollution Control Plant-				
Dewatering System	1444 Borregas Avenue	High	\$980,000	
Water Pollution Control Plant-				
Admin.	1444 Borregas Avenue	High	\$1,132,000	\$157,000
				\$13,000,00
SMaRT Station	301 Carl Road	High	\$14,281,000	0
Storm Pump House 2	1444 Borregas Avenue	High	\$734,000	
Lawrence Hetch Hetchy Turn	Lawrence EXPY /			
Outs	Lakehaven Drive	Prone	\$375,000	
	100 Old Mountain View			
Lawrence Lift Station	Road	Prone	\$262,000	
Lawrence Lift Station	10du	TIONE	Ψ202,000	
Baylands Park Recreation				
Building / Office	999 E. Caribbean	Prone	\$1,130,527	
	000 F G 111	, n	φ1 20 < 200	
Storm Pump House 1	999 E. Caribbean	Prone	\$1,206,000	
Fairwood Park Buildings	1255 Sandia Ave	Prone	\$41,000	\$7,000



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

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

Earthquake Induced Landslides



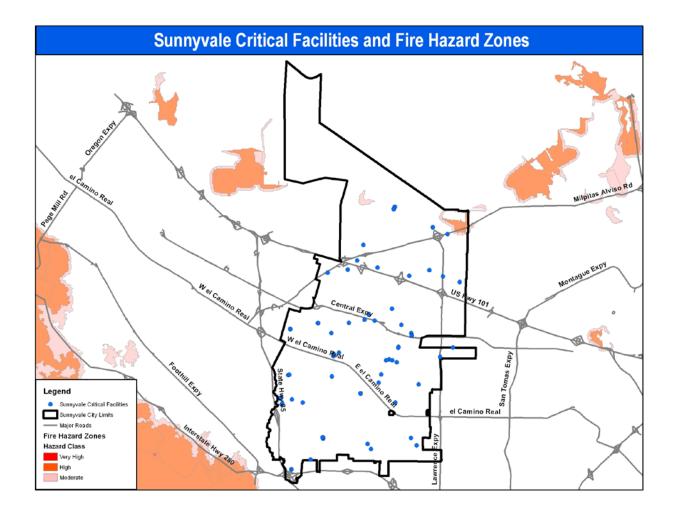
Source: Santa Clara Planning Office, CA State Department of Conservation

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

22.4.2.2.2 Infrastructure Failure

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

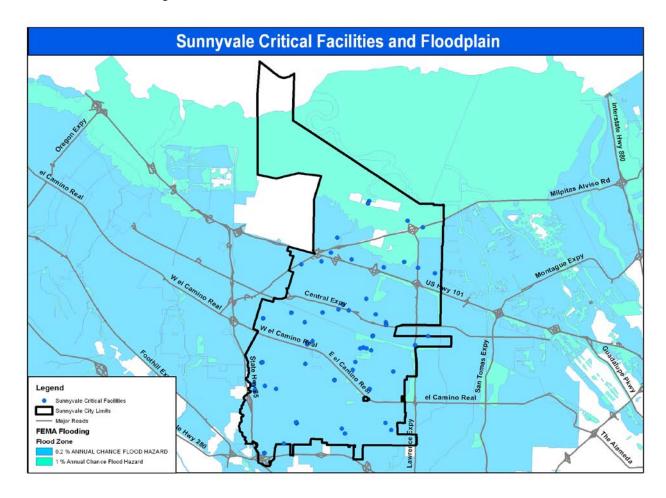
22.4.2.2.3 Wildfire



Source: CA Department of Forestry and Fire Protection

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

22.4.2.2.4 Flooding



Source: FEMA- Santa Clara County DFIRM, 2009

		Flood Zone		Contents
		(% annual	Bldg Insured	Insured
Critical Facility	Address	chance)	Value	Value
Lakewood Park				
Recreation Building	834 Lakechime Drive	1%	\$338,000	\$58,000
	100 Old Mountain	1%		
Lawrence Lift Station	View Road		\$262,000	
Baylands Park		1%		
Recreation Building /				
Office	999 E. Caribbean		\$1,130,527	
Storm Pump House 1	999 E. Caribbean	1%	\$1,206,000	
Sunnyvale Landfill	301 Carl Road	1%		

		Flood Zone		Contents
		(% annual	Bldg Insured	Insured
Critical Facility	Address	chance)	Value	Value
Water Pollution		1%		
Control Plant-PGF	1444 Borregas Avenue		\$18,000,000	
Water Pollution		1%		
Control Plant-Primary	1444 Borregas Avenue		\$5,069,000	\$237,000
Water Pollution		1%		
Control Plant-Digesters	1444 Borregas Avenue		\$11,214,000	
Water Pollution		1%		
Control Plant-Reactors	1444 Borregas Avenue		\$9,714,000	
Water Pollution		1%		
Control Plant-Media				
Filters	1444 Borregas Avenue		\$5,845,000	
Water Pollution		1%		
Control Plant-Chlorine				
Tanks	1444 Borregas Avenue		\$3,590,000	\$200,000
Water Pollution		1%		
Control Plant-				
Dewatering System	1444 Borregas Avenue		\$980,000	
Water Pollution		1%		
Control Plant-Admin.	1444 Borregas Avenue		\$1,132,000	\$157,000
SMaRT Station	301 Carl Road	1%	\$14,281,000	\$13,000,000
Storm Pump House 2	1444 Borregas Avenue	1%	\$734,000	
National Guard Armory	485 N. Wolfe Road	1%	\$933,660	
Wolfe-Evelyn				
Tank/Pump Station	755 Ajax Drive	.2%	\$1,277,000	
Wolfe-Evelyn		.2%		
Reservoir 1	755 Ajax Drive		\$3,893,000	
San Lucar Tank/Pump		.2%		
Station Complex	122 San Lucar Court		\$1,452,000	
San Lucar Reservoir	122 San Lucar Court	.2%	\$2,039,000	
Borregas Hetch Hetchy		.2%		
Turn Outs	924 Borregas Avenue		\$195,000	
Mary Hetch Hetchy		.2%		
Turn Outs	1101 Maude Avenue		\$0	
Fair Oaks Hetch		.2%		
Hetchy Turn Outs	642 Greenlake Drive		\$0	
Lawrence Hetch	Lawrence EXPY /	.2%		
Hetchy Turn Outs	Lakehaven Drive		\$375,000	

		Flood Zone		Contents
		(% annual	Bldg Insured	Insured
Critical Facility	Address	chance)	Value	Value
Lockheed Hetch		.2%		
Hetchy Turn Outs	548 Ross Drive		\$185,000	
Palomar Hetch Hetchy		.2%		
Turn Outs	981 Almanor Avenue		\$0	
SCADA Operation	221 Commercial Street	.2%	\$1,140,000	
Raynor Well and Motor	Dunford Way &	.2%		
Control Center	Partridge Avenue		\$1,299,000	
Ortega Well and Motor		.2%		
Control Center	676 Inverness Way		\$1,006,000	
Serra Well and Motor		.2%		
Control Center	737 The Dalles		\$813,000	
Hamilton Well and		.2%		
Motor Control Center	1200 Bernardo Avenue		\$2,427,000	
Hamilton Well		.2%		
Reservoir 1, 2 & 3	1200 Bernardo Avenue		\$1,984,000	
Losse Well and Motor		.2%		
Control Center				
(standby)	1118 Jamestown Drive		\$585,000	
Corporation Yard		.2%		
Garage & Whse	221 Commercial Street		\$3,939,000	\$889,000
Corporation Yard Main		.2%		
Building	221 Commercial Street		\$1,831,000	\$225,000
Corporation Annex	221 Commercial Street	.2%	\$2,605,000	
Corporation Yard		.2%		
Utility Building	221 Commercial Street		\$2,090,000	
Fire Station #5-		.2%		
Lockheed Wy	1120 Lockheed Way		\$902,000	\$187,000
Fire Station #4- Wolfe /		.2%		
Maria Ln	996 Wolfe Road		\$892,000	\$180,000
Mary-Carson Tank /		.2%		
Pump Station complex	155 Mary Avenue		\$1,181,000	
Mary-Carson Reservoir		.2%		
1	155 Mary Avenue		\$3,893,000	
Fire Station #6-	1282 N. Lawrence	.2%		
Lawrence Sta.	Station Road		\$810,000	\$155,000
San Lucar -Kifer Lift		.2%		
Station Reservoir	1300 Kifer		\$2,039,000	

		Flood Zone		Contents
		(% annual	Bldg Insured	Insured
Critical Facility	Address	chance)	Value	Value
Columbia Park		.2%		
Recreation Building	801 Morse Avenue			
Fair Oaks Park		.2%		
Recreation Building	540 Fair Oaks Avenue		\$428,000	\$107,000
Fire Station #2- Arques	795 E. Arques Avenue	.2%	\$2,568,000	\$351,000
Fire Station #1-	171 N. Mathilda	.2%		
Calif/Mathilda	Avenue		\$1,120,000	\$251,000
Murphy Park	236 N. Sunnyvale	.2%		
Recreation Building	Avenue		\$967,000	\$95,000
Schroeder Pump		.2%		
Station	Schroeder		\$48,000	
Mary-Carson Reservoir		.2%		
2	155 Mary Avenue		\$3,893,000	
Fire Station #3		.2%		
Ticonderoga	910 Ticonderoga Drive		\$944,000	\$199,000
Community Center -	550 E. Remington	.2%		
Recreation Center	Drive		\$3,831,000	\$370,000
Community Center -	550 E. Remington	.2%		
Sports Center	Drive		\$4,681,000	\$168,000
Jackpine pump site	737 Jackpine Ct	.2%		
City Hall	456 W. Olive Avenue	.2%	\$9,162,000	
City Hall Annex	650 W. Olive Avenue	.2%	\$3,655,000	\$588,000
Jamestown (Losse)		.2%		
Pump Station	1118 Jamestown		\$585,000	
Las Palmas Park		.2%		
Recreation Building	850 Russet Drive		\$392,000	\$39,000
Library	665 W. Olive Avenue	.2%	\$10,888,000	\$8,506,000
Public Safety Building	700 All America Way	.2%	\$12,514,000	\$2,503,000
Ajax / Liquidamber		.2%		
Tank site - Wolfe /				
Evelyn Pump Station	755 Ajax Drive		\$1,227,000	
Braly Park Recreation		.2%		
Building	704 Daffodil Court		\$390,000	\$39,000
Ponderosa Park		.2%		
Recreation Building	811 Henderson Avenue		\$465,000	\$39,000
Raynor Park Recreation		.2%		
Building	1565 Quail Avenue		\$969,000	

		Flood Zone		Contents	
		(% annual	Bldg Insured	Insured	
Critical Facility	Address	chance)	Value	Value	
Washington Park	840 W. Washington	.2%			
Recreation Building	Avenue		\$776,000	\$26,000	
Central Well site and	Mc Kinley Avenue and	.2%			
Motor Control Center	Central		\$374,000		
	Mc Kinley Avenue and	.2%			
Central Reservoir 1	Central		\$505,000		
	Mc Kinley Avenue and	.2%			
Central Reservoir 2	Central		\$809,000		
Community Center -	550 E. Remington	.2%			
Performing Arts	Drive		\$3,776,000	\$182,000	
Community Center -	550 E. Remington	.2%			
Creative Arts Center	Drive		\$2,055,000	\$308,000	
Community Center -	550 E. Remington	.2%			
Arboretum	Drive		\$413,000	\$152,000	
	550 E. Remington	.2%			
Senior Center	Drive		\$7,882,000	\$605,000	
De Anza Park		.2%			
Recreation Building	1150 Lime Drive		\$242,000	\$21,000	
Hamilton Tank / Pump		.2%			
Station complex	1200 Bernardo		\$771,000		
Hamilton Reservoir 1	1200 Bernardo	.2%	\$809,000		
Hamilton Reservoir 2	1200 Bernardo	.2%	\$809,000		
Hamilton Reservoir 3	1200 Bernardo	.2%	\$809,000		
Ortega Park Recreation		.2%			
Building	636 Harrow Way		\$319,000	\$22,000	
Serra Park Recreation		.2%			
Building	730 The Dalles		\$243,000	\$22,000	
Serra Pump Station	737 The Dalles	.2%	\$813,000		
Wright Ave Tank /		.2%			
Pump Station complex	1773 Wright Avenue		\$764,000		
Wright Ave Reservoir		.2%			
1	1773 Wright Avenue		\$3,893,000		
Wright Ave Reservoir		.2%			
2	1773 Wright Avenue		\$3,893,000		
Fairwood Park		.2%			
Buildings	1255 Sandia Ave		\$41,000	\$7,000	

		Flood Zone		Contents
		(% annual	Bldg Insured	Insured
Critical Facility	Address	chance)	Value	Value
Westmoor Wellsite and		.2%		
Motor Control Center	829 Homestead Road		\$614,000	\$0

Sea Level Rise

Several facilities in Sunnyvale are at risk of being impacted by sea level rise. They are presented in the following table.

Table 22-12: Critical Facilities at risk to Sea Level Rise

Address	Facility Name		
Oakmead Storm Pump Station	Lisa Lane/Guadalupe River		
100 Old Mountain View Road	Lawrence Lift Station		
999 E. Caribbean	Baylands Park Recreation Building / Office		
999 E. Caribbean	Storm Pump House 1		
301 Carl Road	Sunnyvale Landfill		
1444 Borregas Avenue	Water Pollution Control Plant-PGF		
1444 Borregas Avenue	Water Pollution Control Plant-Primary		
4444 D	Water Pollution Control Plant-		
1444 Borregas Avenue	Digesters		
1444 Borregas Avenue	Water Pollution Control Plant-Reactors		
1444 Borregas Avenue	Water Pollution Control Plant-Media Filters		
	Water Pollution Control Plant-Chlorine		
1444 Borregas Avenue	Tanks		
	Water Pollution Control Plant-		
1444 Borregas Avenue	Dewatering System		
1444 Borregas Avenue	Water Pollution Control Plant-Admin.		
301 Carl Road	SMaRT Station		
1444 Borregas Avenue	Storm Pump House 2		

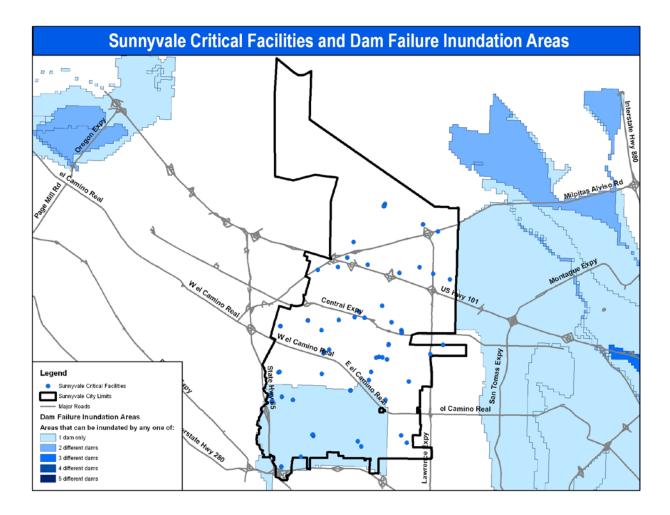
22.4.2.2.5 Drought

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

22.4.2.2.6 Solar Storm

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

22.4.2.2.7 Dam Failure



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

		Dam Failure Inundation	Bldg Insured	Contents Insured
Critical Facility	Address	Area	Value Value	Value Value
Ortega Well and Motor				
Control Center	676 Inverness Way	1	\$1,006,000	
Serra Well and Motor				
Control Center	737 The Dalles	1	\$813,000	
Hamilton Well and	1200 Bernardo		·	
Motor Control Center	Avenue	1	\$2,427,000	
Hamilton Well	1200 Bernardo			
Reservoir 1, 2 & 3	Avenue	1	\$1,984,000	
Fire Station #3	910 Ticonderoga			
Ticonderoga	Drive	1	\$944,000	\$199,000
Community Center -	550 E. Remington			
Recreation Center	Drive	1	\$3,831,000	\$370,000
Community Center -	550 E. Remington			
Sports Center	Drive	1	\$4,681,000	\$168,000
Community Center -	550 E. Remington			
Performing Arts	Drive	1	\$3,776,000	\$182,000
Community Center -	550 E. Remington			
Creative Arts Center	Drive	1	\$2,055,000	\$308,000
Community Center -	550 E. Remington			
Arboretum	Drive	1	\$413,000	\$152,000
	550 E. Remington			
Senior Center	Drive	1	\$7,882,000	\$605,000
De Anza Park				
Recreation Building	1150 Lime Drive	1	\$242,000	\$21,000
Hamilton Tank / Pump				
Station complex	1200 Bernardo Ave	1	\$771,000	
Hamilton Reservoir 1	1200 Bernardo Ave	1	\$809,000	
Hamilton Reservoir 2	1200 Bernardo Ave	1	\$809,000	
Hamilton Reservoir 3	1200 Bernardo Ave	1	\$809,000	
Ortega Park Recreation				
Building	636 Harrow Way	1	\$319,000	\$22,000
Serra Park Recreation				444 000
Building	730 The Dalles	1	\$243,000	\$22,000
Serra Pump Station	737 The Dalles	1	\$813,000	

Critical Facility	Address	Dam Failure Inundation Area	Bldg Insured Value	Contents Insured Value
Wright Ave Tank /				
Pump Station complex	1773 Wright Avenue	1	\$764,000	
Wright Ave Reservoir 1	1773 Wright Avenue	1	\$3,893,000	
Wright Ave Reservoir 2	1773 Wright Avenue	1	\$3,893,000	
Westmoor Wellsite and				
Motor Control Center	829 Homestead Road	1	\$614,000	\$0

22.4.2.2.8 Disease Outbreak

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

22.4.2.2.9 Freeze

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

22.4.2.2.10 Wind

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

22.4.2.2.11 Heat

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

22.4.2.2.12 Agricultural Pest

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

22.4.2.2.13 Thunder and Lightning

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

22.4.2.2.14 Siltation – Bay Area

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

22.4.2.2.15 Tornado

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

22.4.2.2.16 Hazardous Materials

Hazardous Materials spills are not of particular concern to the City of Sunnyvale.

22.4.2.2.17 Landslide and Debris Flow

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

22.4.2.2.18 Other Hazards

Land Subsidence is not of particular concern to the City of Sunnyvale.

Expansive Soils are not of particular concern to the City of Sunnyvale.

Hailstorms are not of particular concern to the City of Sunnyvale.

Tsunami is not a hazard of concern for the City of Sunnyvale.

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

22.5 MITIGATION ACTIONS

22.5.1 Primary Concerns

Based on the exposure analysis, Sunnyvale's critical facilities are at significant risk to potential ground shaking and flood. The northern portion of the city (near the bay) is at risk to liquefaction and sea level rise. Several critical facilities fall within the zones of potential dam inundation.

22.5.2 Mitigation Actions

In addition to participating in the Local Planning Team and supporting the implementation of the prioritized county-wide mitigation actions, the City of Sunnyvale will use the "existing" priorities as presented in Attachment 2 (Sunnyvale Strategies 2010) to guide ongoing implementation of mitigation. These priorities coordinate with the regional planning effort and are presented in further detail in ABAG's *Taming Natural Disasters*.

To mitigate the failure of the water system, the City is proposing to retrofit the key water infrastructure components at risk. Therefore, the City has prioritized this mitigation project strategy as high in the mitigation strategies spreadsheet.

22.6 PLAN MAINTENANCE

The City of Sunnyvale's Office of Emergency Services and the Local Planning Team, as listed in Section 21.2 of this Annex, will ensure that *monitoring* of the Annex will occur. The plan will be monitored on an on-going basis. However, major disasters affecting our community, legal changes, notices from ABAG as the lead agency in this process, and other triggers will be used. The Office of Emergency Services will gather together representatives from Public Safety, Public Works, Parks and Recreation, Community Development and Human Resources to *evaluate* the Annex in light of technological and political changes or significant events that may have occurred in the past year. The Annex will be placed on the Executive Leadership Team's (city department heads) agenda at least once a year during the month of April. These groups will recommend changes to the plan as necessary.

The City of Sunnyvale is committed to reviewing and *updating* this Annex at least once every five years, as required by the Disaster Mitigation Act of 2000. The City's Office of Emergency Services will contact ABAG four years after the Local Hazard Mitigation Plan is approved to ensure ABAG will undertake the update process. If so, the City plans at this time to participate in the multijurisdictional Plan. If ABAG is unwilling or unable to act as the lead agency in the multijurisdictional effort, other options for complying with the Disaster Mitigation Act of 2000 will be considered by the City.

Finally, the *public* will continue to be involved when the plan is updated and, as appropriate, during the monitoring and evaluation process. The City found that the most successful means for public review of the draft plan was through posting a survey, designed to elicit public opinion of the draft, on the City's website. The dissemination of the draft plan to the extended stakeholders listed in Section 21.2 of this Annex was also successful. The City of Sunnyvale will continue to use these methods to obtain public review of future draft plans.

22.7 CITY OF SUNNYVALE APPENDIX

22.7.1 Sunnyvale Attachment 1: Sunnyvale Outreach

The City of Sunnyvale notified residents and businesses of the hazard mitigation planning process by distributing promotional announcements regarding public opportunity to respond to the online survey. This Attachment includes those outreach materials.

Bartshire, Corinne

From: Cherel Sampson [CSampson@ci.sunnyvale.ca.us]

Sent: Tuesday, November 09, 2010 3:07 PM

To: Nathan Truitt
Cc: Bartshire, Corinne

Subject: Local Hazard Mitigation Plan

Attachments: Letter to Residents re Hazard Mitigation Plan.pdf

Nathan:

Thank you for your willingness to distribute the information about the City's Local Hazard Mitigation online survey to neighborhood associations. The link is http://www.surveymonkey.com/s/2010SCCHMP

Note the below attachment.

Call me with any questions.

Cherel X7198

Bartshire, Corinne

From: Cherel Sampson [CSampson@ci.sunnyvale.ca.us]

Sent: Tuesday, November 09, 2010 12:04 PM

Cc: Bartshire, Corinne

Subject: Online Survey -- Need Your Help

Attachments: Letter to Residents re Hazard Mitigation Plan.pdf

SNAP Member:

The City of Sunnyvale working in conjunction with other cities and the County are seeking your input the Local Hazard Mitigation Plan. The plan defines measures that the City may implement to increase our community's resiliency to natural hazards. As a present or former participant in the SNAP Program I am seeking your input on your level of preparedness and perception of risk to hazard events.

Your feedback is critical to increasing local resiliency. Please take a few moments and complete the online survey at http://www.surveymonkey.com/s/2010SCCHMP

Please read the below attachment.

Thank you.

Cherel D. Sampson Office of Emergency Services 408-730-7198

Bartshire, Corinne

From: Cherel Sampson [CSampson@ci.sunnyvale.ca.us]

Sent: Tuesday, November 09, 2010 1:54 PM

To: Priscilla Luckey
Cc: Bartshire, Corinne

Subject: SARES - Local Hazard Mitigation Online Survey **Attachments:** Letter to Residents re Hazard Mitigation Plan.pdf

SARES Member:

The City of Sunnyvale working in conjunction with other cities and the County are seeking your input the Local Hazard Mitigation Plan. The plan defines measures that the City may implement to increase our community's resiliency to natural hazards. I am contacting all SARES members and asking each you to respond to the online survey about your level of preparedness and perception of risk to hazard events.

> Your feedback is critical to increasing local resiliency. Please take a few moments and complete the online survey at > http://www.surveymonkey.com/s/2010SCCHMP

> Please read the below attachment.

> > Thank you.

> Cherel D. Sampson

> Office of Emergency Services

> 408-730-7198



November 9, 2010

Dear Resident,

The City of Sunnyvale is collaborating with Santa Clara County to update our local hazard mitigation plan. This plan outlines mechanisms for increasing our community's resiliency to natural hazard events (earthquake, flood, wildfire, etc.).

<u>Hazard Mitigation</u> is defined as "sustained action taken to reduce or eliminate the longterm risk to human life and property from natural, human-caused, and technological hazards and their effects."

Our updated local hazard mitigation plan will be an annex to the regional plan titled "Taming Natural Disasters: Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area".

Your feedback is critical to increasing local resiliency. Please take a few moments to complete the brief survey at: http://www.surveymonkey.com/s/2010SCCHMP. (The survey will be available online through Friday, December 3, 2010)

If you have any questions regarding the survey or opportunities to participate in the plan update, you may contact Corinne Bartshire at (510) 834-3326 or cbartshire@dewberry.com. We sincerely appreciate your time and cooperation in helping our community become more resilient.

Thank you for your participation!

Cherel D. Sampson

Office of Emergency Services

Church D. Simps

csampson@ci.sunnyvale.ca.us

408-730-7190

DPS Hot Topics

DPS Hot Topics

Neighborhood Preservation

Animal Control

Get Involved

DPS Divisions

Crime Prevention

Public Safety Statistics

Reporting Emergencies

Records

Permits & Licenses

Recruiting

Staving Safe

Fire Prevention

Emergency Preparedness

Contact

Department of Public Safety 700 All America Wy Sunnvvale, CA 94086 (408) 730-7100

Contact Us: Department of Public Safety You are here: Departments > Public Safety > DPS Hot Topics

Public Safety Hot Topics

PUBLIC SAFETY NEWS / INFORMATION

The City of Sunnyvale is dedicated to providing up to date news and information to its citizens. The Department of Public Safety works in conjunction with the City's Public Information Officer (PIO) to provide the most current news. Please visit the Sunnyvale Newsroom for more information.

WHAT'S NEW!

- City of Sunnyvale Local Hazard Mitigation Plan (LHMP) 2011
- NEAT
- MedDrop Sunnyvale
- TipNow
- Challenge Team Sunnyvale
- Bicycle Licensing

City of Sunnyvale Local Hazard Mitigation Plan (LHMP) 2011 Available for Public **Review and Comment**

The City of Sunnyvale has participated with Santa Clara County in updating its Local Hazard Mitigation Plan. This plan is an annex to the ABAG regional Hazard Mitigation Plan (see link below). The public review draft of the Santa Clara County Local Hazard Mitigation Plan 2011 Update and City of Sunnyvale Annex are now available for comment. Your comments and questions may be directed to the County's consultant: Corinne Bartshire at (916) 380-3776 or cbartshire@dewberry.com.

Link to Hazard Mitigation Plan Review Draft

With a grant from the Federal Emergency Management Agency (FEMA), the Santa Clara County Office of Emergency Services has coordinated with the incorporated cities to develop this update. The planning process has involved thirteen incorporated cities, the Santa Clara Valley Water District, and major employers in Silicon Valley. The 2011 updated local hazard mitigation plan is an annex to the regional plan titled "Taming Natural Disasters: Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area" which may be viewed at: http://quake.abag.ca.gov/mitigation/

NEAT

The Neighborhood Enhancement Action Team (NEAT) works with residents, businesses, property owners and neighborhood groups to identify and resolve quality of life issues.

NEAT's goals are simple:

- Build strong working relationships with neighbors.
- Engage and empower community members to take action that enhances the quality of life in their neighborhood.

NEAT works inter-departmentally to leverage resources and take a holistic approach to problem solving. Public Safety, Office of the City Manager, Public Works, Community Development and Community Services are all working together to keep our community safe and beautiful.

For more information please visit Neighborhood Preservation web site.

MedDrop in Sunnyvale

MedDrop is a pharmaceutical disposal program designed to encourage environmentally-safe disposal of unneeded, expired, and unused prescription and over-the-counter medicines. This service is provided to citizens of Sunnyvale by the Department of Public Safety to facilitate a convenient and safe means of ridding our Community and our environment of

On September 22, DPS personnel brought their mobile MedDrop bin to the Sunnyvale Senior Center as part of Pollution Prevention Week. They joined staff from the Water Pollution Control Plant who were providing a Mercury Fever Thermometer exchange.

Residents can bring their expired pharmaceuticals to any Sunnyvale Fire Station for disposal. Sharps or illegal drugs are not accepted. For disposal information about other items, please visit www.earth911.com

Read the fact sheet

TipNow

Twitter | Jobs | News | eNotify | RSS | Contact Us

Sunnyvale Department of Public Safety (DPS) has joined forces with TipNow to mail communications anonymously from the public. TipNow collects and manages e-mail and cell phone text messages and

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22.7.2 Sunnyvale Attachment 2: Sunnyvale Strategies 2010

The City of Sunnyvale participated in ABAG's 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.

JURISDICTION:	Sunnyvale	
Strategy Priority	Responsible Agency or Department	Comments
ECON-a-1 n/a		
ECON-a-2 NYC		
ECON-b-1 NYC		
ECON-b-2 Existing	Community Development, Building	adopted International/State Uniformed
ECON-b-3 Existing		Building Code 2007 Community Development, Building,
<u> </u>		Public Safety OES
ECON-b-4 NYC		
ECON-b-5 NYC		
ECON-b-6 NYC		
ECON-b-7 NYC		
ECON-b-8 NYC		
ECON-b-9 n/a		
ECON-c-1 Existing	Community Development. Building	
ECON-c-2 NYC		
ECON-c-3 NYC		
ECON-c-4 NYC		
ECON-d-1 NYC		
ECON-d-2 Existing	Community Development, Building	Adopted the 2007 International/State Building Code
ECON-d-3 NYC		3
ECON-e-1 n/a		No wildland interface
ECON-e-2 n/a		No wildland interface
ECON-e-3 Existing	Public Safety Community	Fire Code adopted by City Council
<u></u>	Development	could duspied by only counter.
ECON-e-4 Existing	Public Safety, Fire, Community Development	Permit Process and City Council Adoption
ECON-e-5 Existing	Public Safety, Fire, Community Development	City formally adopts codes and annual building inspections by Fire Prevention and Engine Companies
ECON-e-6 n/a		3
ECON-e-7 NYC		
ECON-e-8 NYC		
ECON-e-9 Existing	Public Safety, Fire Prevention	Requires inspections
ECON-e-10 Existing	Public Safety, Fire Prevention	Engine Coompany Inspections
ECON-e-11 NYC	,,	go company mopositions
ECON-e-12 Existing	SCVWD	
ECON-e-13 NYC	337.112	
ECON-f-1 Existing	Public Works, Admin	Class 7 Community, HFIP, CRS
ECON-f-2 Existing	Table Works, Nami	oldos i Community, i i i i , cito
ECON-f-3 Existing	Public Works, Engineering	Covered by developer fees
ECON-f-4 Existing	Public Safety, Office of Emergency,	Covered by developer lees
	SCVWD	
ECON-f-5 Existing	Public Works, Field Services	procedure in place
ECON-f-6 Existing	Community Development, Building	
ECON-f-7 NYC	Community Development, Economic Development	

ECON-f-8	NYC	Community Development, Economic Development	
ECON-f-9	NYC		
ECON-g-1	n/a		
ECON-g-2	n/a		
ECON-h-1	Existing	Community Development, Building	
ECON-h-2	Existing	Community Development, Building	
ECON-h-3	NYC		
ECON-i-1	NYC		
ECON-i-2	NYC		
ECON-i-3	NYC		
ECON-i-4	NYC		
ECON-i-5	NYC		
ECON-i-6	NYC		
ECON-j-1	NYC		
ECON-j-2	Existing	Public SaPublic Safety, Office of Emergency Services, Office of City Manager, Communications	City distribute own materials
ECON-j-3	Existing	Public Safety, Office of Emergency Services, Office of City Manager, Communications	
ECON-j-4	Existing	Public Safety, Office of Emergency Services, Office of City Manager, Communications	
ECON-j-5	NYC		
ECON-j-6	n/a		
ECON-j-7	NYC		
ECON-j-8	Existing	Public Works, Solid Waste, Streets	Signs painted on sidewalk
ECON-j-9	NYC		
ECON-j-10	· ·	Public Safety, Fire Prevention	
ECON-j-11	-	Public Safety, Office of Emergency Services	
ECON-j-12			
ECON-j-13	-	Public Safety, Office of Emergency Services	materials used for SNAP
EDUC-a-1			
EDUC-a-2			
EDUC-a-3			
EDUC-a-4			
EDUC-a-5		Francist Unified Cohool District	City stoff are trained via the Statele CAD
EDUC-a-o	Existing Underlunded	Fremont Unified School District Cupertino Unified School District Stanta Clara Unified School District Sunnyvale Unified School District Community Development Public Safety OES	City staff are trained via the State's SAP Program
EDUC-b-1	Existing	American Red Cross, Fremont School District, Cupertino Unified School District, Sunnyvale School District, Public Safety OES, Community Services	There are 8 predesignated shelter sites and established MOUs with ARC, all 4 school district and 1 church
EDUC-b-2	n/a	•	

EDUC-b-3	n/a		Upon request the City will offer this service
EDUC-c-1	n/a		3511133
EDUC-c-2	n/a		
EDUC-c-3	n/a		
EDUC-c-4	n/a		
EDUC-c-5	n/a		
EDUC-c-6			
EDUC-c-7			
			Conta Clara County Emergency Cohool
EDUC-d-1	Existing		Santa Clara County Emergency School Coordinator
EDUC-d-2	Existing		Santa Clara County Emergency School Coordinator, Public Safety OES
ENVI-a-1	Existing	Community Development, Planning, Public Works, Water Pollution Control Service	Plan review thru industrial waste inspections
ENVI-a-2	Existing	Human Resources	
ENVI-a-3	Existing	Public Works, Solid Waste, Environmental Divisions, Water Pollution Control Services, Community Services, Facilities, Bay Area Air Quality	Project Approval process, policy in place, Integrated Test Tolerance Project. Revised City guidance for implementing City's checklist for approval
ENVI-a-4	Existing	Public Works, Water Pollution Control Service	Part of the watershed initative
ENVI-a-5	Existing	Public Works, Water Pollution Control Service, SCVWD	Watershed Resources Protection Collborative, all cities in Santa Clara County, early plan review
ENVI-a-6	Existing	Community Development, Public Works, Environmental Division, Water Pollution Control Service	Municipal Code 12.60, C3 Provisions of NPDES
ENVI-a-7	Existing	Community Development, Public Works, Environmental Division, Water Pollution Control Service	Municipal Code 12.60, C3 Provisions of NPDES
ENVI-a-8	Existing	Public Safety, Community Development, Building, Water Pollution Control Service	
ENVI-a-9	Existing	Public Safety, Environmental Protection Agency	
ENVI-a-10	Existing	Public Works, Solid Waste	Household Hazard Waste Program
ENVI-a-11	NYC		support other programs, SCVWD, SCBWMI
ENVI-a-12	NYC		support other programs, SCVWD, SCBWMI
ENVI-a-13	Existing Underfunded	Public Works, Water Pollution Control Service, SCVWD	Storm Water Management, Discharge control ordinance, WPCP, Envir Division industrial waste inspector
ENVI-b-1	n/a		no rural areas within the city
ENVI-b-2	n/a		
ENVI-b-3	Existing	Planning	
ENVI-b-4	Existing	Public Works, Transportation and	
ENVI-b-5	Existing	Traffic Public Works, Solid Waste Management, WPCP	

ENVI-b-6	Existing	Community Services, Building Services	
ENVI-b-7	Existing	Finance, Purchasing Community Services, Facilities	
ENVI-b-8	Existing	Community Services, Building Services	
ENVI-b-9	Existing	Public Works, Fleet	
ENVI-b-10	Existing	Public Works, WPCP, Solid Waste Management	
ENVI-b-11	Existing	Public Works, SMART Station	
ENVI-b-12	n/a		
ENVI-b-13	n/a		
ENVI-c-1	n/a		
ENVI-c-2	n/a		
ENVI-c-3	n/a		
GOVT-a-1	High	Community Services, Facilities, Public Works, Field Services	PWs conducted a vulnerabilities assessment of the City's water system 2004
GOVT-a-2	Existing	Public Works, Field Services, Community Services, Facilities	
GOVT-a-3	NYC		
GOVT-a-4	Existing	Community Services, Facilities, Information Technology	emergency generators installed in our City critical facilities
GOVT-a-5	Existing	Human Resources	Monthly citywide safety committee meetings
GOVT-a-6	Under Study	Community Services, Facilities, Information Technology, Public Works, Field Services. Water Pollution Control Services	
GOVT-a-7	NYC		
	n/a		
GOVT-a-9	NYC	Community Services, Facilities	
GOVT-a-10	Existing	Community Development, Building, Public Works, Community Services, Facilities	Project Ad
GOVT-a-11	Existing	Community Development, Building, Public Works, Community SErvices, Facilities	DPW Engineering will be involved in the construction phase of government facilities
GOVT-a-12	Existing	Community Development, Planning, Public Works, Community Services, Facilities	
GOVT-a-13	n/a		
GOVT-b-1	Existing	Public Safety, Office of Emergency Services, Office of City Manager	procedures covered in city's Emergency Plan and department standard operating procedures
GOVT-b-2	Existing	Public Safety, Finance	
GOVT-b-3	Existing Underfunded	-	
GOVT-b-4	Existing	Office City Manager, Finance	vital records stored
	· ·	Public Works, Admin, Community Services, Facilities	
GOVT-c-1	Existing	Public Safety OES	Sea-cargo with supplies to support employees is located on the Sunnyvale campus

GOVT-c-2	Existing	Public Safety OES	2008 all Sunnyvale employees were required to take the DSW training. Since then the training is held on a quarterly for all new hirers.
GOVT-c-3	Existing Underfunded	Public Safety OES	Thru the DSW training employees and their families are invited to take the SNAP training
GOVT-c-4	Existing	Public Safety, Human Resources, Facilities	-
GOVT-c-5	Existing	Public Safety, Human Resources, Facilities	
GOVT-c-6	Existing	Public Safety Information Technology	
GOVT-c-7	Existing	Public Safety, Communications, Information Technology	
GOVT-c-8	Existing	Public Safety Information Technology	
GOVT-c-9	-	Public Safety Information Technology	In process, thru SHSGP funding
GOVT-c-10	-	Public Safety	
GOVT-c-11	Existing	Public Safety	annual exercise
GOVT-c-12	Existing	Public Safety	City's emergency plan continuous updating
GOVT-c-13	Existing	Public Safety	Established MA agreements
GOVT-c-14	Existing	Public Safety Information Technology County OES	Sunnyvale has its own emergency notification system and also utilizes the new Santa Clara County Alert System (SCCAlert)
GOVT-c-15	n/a		,
GOVT-c-16			
GOVT-c-17		Public Safety	
GOVT-c-18	•	. ablie barety	
GOVT-c-19			
GOVT-c-19		SCVWD	
	=	36770	
GOVT 2.22			
GOVT-c-22			
	Under Study		Callabaration with the cities of Compating
GOVT-c-24			Collaborating with the cities of Cupertino, Mountain, County and SCVWD
	J	Santa Clara County Emergency Managers Association	ARC, CADRE, San Jose Water
GOVT-d-1	J	Santa Clara County Emergency Managers Association	make up of reps from cities, county and private entities
GOVT-d-2	Existing	Public Safety, Office of Emergency Services, Public Works, Field Services	BAWSCA address water issues
GOVT-d-3	Existing	Public Works, Field Services, SCVWD	SCVWD hosts an annual Winter Preparedness Workshop where cross disciplines are invited, OES, PWs, CBOs, Police, Fire, etc.
GOVT-d-4	Existing	Public Works, Admin, Information Techonology	CRS and NFIP programs
GOVT-d-5	Existing	Public Works, Admin	Code of Federal Regulations Index 44

GOVT-d-6	NYC		
GOVT-d-0	Existing	Public Safety, Fire	
<u>GOVT-d-7</u> <u>GOVT-d-8</u>	•	• •	
	Existing Existing	Community Development, Building	member of EPC
GOVT-d-9	Existing	Office of the City Managers, Emergency Preparedness Council (EPC)	member of EPC
GOVT-d-10	Existing	County OES	
GOVT-e-1	n/a	ABAG only	
GOVT-e-2	n/a	ABAG only	
HEAL-a-1	NYC		
HEAL-a-2			There are no hospitals in the City of Sunnyvale
HEAL-a-3	NYC		
HEAL-a-4	NYC		
HEAL-a-5	NYC		
<u>HEAL-a-6</u>	Existing	Santa Clara County Public Health	
HEAL-a-7	n/a		
HEAL-b-1	NYC		
HEAL-b-2	NYC		
HEAL-b-3	NYC		0000 M B BI (111)
HEAL-c-1	Existing	Santa Clara County Public Health	2008 Mass Proxy Plan, anticipate revision completed by 6/2010 42 PODs identified countywide
HEAL-c-2	Existing	City of San Jose	
HEAL-c-3	Existing	CA-6 DMAT	
HEAL-c-4	Existing	Public Safety, Fire Division	SOP for HAZMAT Team, listed in Fire Services Procedure Manual
HEAL-c-5	n/a		
HEAL-c-6	Existing	Public Health, Mental Health	Draft COOP Plan written, final plan to be completed in 2010
HSNG-a-1			
HSNG-a-2			
HSNG-a-3	-	Public Safety OES Community Services	MOUs established with ARC and the school districts within Sunnyvale
HSNG-a-4	Existing	Community Development, Housing	Community Development Block Grant Progam
HSNG-b-1	Existing	Community Development, Building	distribute info to public via written plan by listed agencies
HSNG-b-2	Existing	Community Development, Building	Abide by CALBO standards
HSNG-b-3	n/a		Hazard does not exist in Sunnyvale
HSNG-b-4	Existing	Community Development, Building	Building Inspectors participate in the ATC-20 Program and are SAP trained
HSNG-b-5	NYC		
HSNG-b-6	Existing	Community Development, Building	meet upon request with single family neighborhood associations
HSNG-b-7	Existing	Community Development, Building	In cooperation with Home Depot
HSNG-b-8	NYC		
HSNG-b-9	n/a		
HSNG-c-1	Existing	Community Development, Building	standard plan under study
LIONIO C	-		•
HSNG-c-2	Existing	Community Development, Building	International/State UBC adopted Nov

			2007
HSNG-c-3	Existing	Community Development, Building	
HSNG-c-4	Existing	Community Development, Building	Collaborative for Disaster Mitigation conducted an inventory for cities in Santa Clara County in 2003
HSNG-c-5	n/a		·
HSNG-c-6	n/a		
HSNG-c-7	NYC		
HSNG-c-8	NYC		
HSNG-c-9	n/a		
HSNG-d-1	Existing	Community Development, Building	
HSNG-d-2	n/a		
HSNG-d-3	n/a		
HSNG-d-4	NYC		
HSNG-e-1	n/a		
HSNG-e-2	NYC		
HSNG-e-3	Existing Underfunded	Community Development, Building	International/State UBC adopted 2007
HSNG-e-4	NYC		
HSNG-f-1	Existing	Community Development, Building	
HSNG-f-2	Existing	Community Development, Building	
HSNG-g-1	n/a		Very little to no wildland interface
HSNG-g-2	n/a		Very little to no wildland interface
HSNG-g-3	n/a		Very little to no wildland interface
HSNG-g-4	NYC		
HSNG-g-5	Existing	Public Safety, Fire, Community Development	
HSNG-g-6	Existing	Public Safety, Fire, Community Development	City formally adopts
HSNG-g-7	Existing	Public Safety, Fire, Community Development	
HSNG-g-8	Existing	Community Development, Building	
HSNG-g-9	n/a		
HSNG-g-10	NYC		
HSNG-g-11	n/a		No rural areas
HSNG-g-12	Existing	Public Safety, Fire	required by Muni Code
HSNG-g-13	Existing	Public Safety, Fire	required by Muni Code
HSNG-g-14	Existing	Public Safety, Fire	mixed use new construction
HSNG-g-15	Existing	Public Safety, Fire	requires inspection
HSNG-g-16	Existing	Public Safety, Fire	Fire Company inspections
HSNG-g-17	Existing	SCVWD	
HSNG-g-18	_	Community Development, Building	
HSNG-g-19	n/a		
HSNG-g-20	Existing	Public Safety, Fire	ISO Ratings every 10 years Claall Fire Department for insurance purposes
HSNG-h-1	Existing	Public Works, Admin	The city belongs to NFIP Community Rating System
HSNG-h-2	Eviating	Community Development, Planning	Abido by LIPC raiso sita
	Existing	Confinding Development, Flaming	Abide by UBC, raise site
HSNG-h-3	Existing	Public Works, Engineering	Moffet Park Specific Plan

	Division, SCVWD	
HSNG-h-5 Existing		, Annual City and County media campaign
HSNG-h-6 Existing	Community Development, Building, Public Works	
HSNG-h-7 Existing	Community Development, Planning Building	, Project Review Committee
HSNG-h-8 n/a		
HSNG-h-9 NYC		
HSNG-h-10 Existing	Public Works, Admin, SCVWD	
HSNG-i-1 n/a		
HSNG-i-2 n/a		
HSNG-j-1 Existing	Public Safety, Neighorhood Perservation	Adhere to M.C. Chapter 16, Certificate of Occupancy, Adopted International Code of Council 2007, International Property Maintainance Code 2006
HSNG-j-2 Existing	Public Safety, Neighorhood Perservation	Adopted California Historical Code, M.C. 16.34
HSNG-k-1 Existing	Public Safety, Office of Emergency Services	
HSNG-k-2 Existing	Public Safety, Office of Emergency Services	City's SNAP (CERT) Training
HSNG-k-3 Existing	Public Safety, Office of Emergency Services	
HSNG-k-4 Existing	Public Safety, Office of Emergency Services	
<u>HSNG-k-5</u> Existing	Public Safety, Office of Emergency Services	promote preparedness
HSNG-k-6 Existing	Public Safety, Office of Emergency Services	SNAP (CERT), since 1988
<u>HSNG-k-7</u> Existing	Public Safety, Office of Emergency Services	
HSNG-k-8 Existing	Public Safety, Crime Prevention	
HSNG-k-9 n/a		No wildland/urban interface
HSNG-k-10 Existing	Public Safety, Office of Emergency Services	via SNAP (CERT) Program
HSNG-k-11 n/a		
HSNG-k-12 Existing	Public Safety, Office of Emergency Services	
HSNG-k-13 Existing	Public Works,Water Pollution Control Service	
HSNG-k-14 n/a		No wildland/urban interface
HSNG-k-15 n/a		
HSNG-k-16 Existing	Public Safety, Office of Emergency Services	
<u>INFR-a-1</u> Existing	Public Works, Field Services	In collaboration w/Bay Area Water Supply and Conservation Agencies (BAWSCA)
<u>INFR-a-2</u> Existing	Santa Clara Valley Water District (SCVWD)	
<u>INFR-a-3</u> Existing	Public Works, Field Services	In collaboration with the cities of Mountain View, Santa Clara and Cupertino

INFR-a-4	High	Public Works, Field Services and Environmental Divisions	
INFR-a-5	Existing	SCVWD	City supports the SCVWD Reliability Program
INFR-a-6	Existing	Public Works, Field Services	. rogiam
INFR-a-7	Existing	Public Works, Field Services	In cooperation with Bay Area Coalition of
	3	,	Water Agencies
INFR-a-8	Existing	Public Works, Field Services, Community Services, Facilities	
INFR-a-9	Existing	Public Works, Traffic Engineering	Standard Procedure
<u>INFR-a-10</u>	NYC		
INFR-a-11	Existing	Public Safety, Office of Emergency Services (OES) and Community Services, Facilities	
INFR-a-12	Existing	Community Development, Planning	M.C. 19.38.090 - Program require underground ulities in certain circumstances
<u>INFR-a-13</u>	n/a		
INFR-a-14	Existing	Santa Clara County OES	
<u>INFR-a-15</u>	Existing	Santa Clara County Health Dept., Emergency Medical Services	
<u>INFR-a-16</u>	Existing Underfunded	Public Safety, VTA Bus Routes/Paratransit	
<u>INFR-a-17</u>	Existing	Silicon Valley Intelligent Transportation Systems Program	
<u>INFR-a-18</u>	Existing Underfunded	Santa Clara County VTA, Public Health	
INFR-a-19	Existing	Public Works, Solid Waste Management, San Jose Water	Santa Clara County EMA in collaboration w/ San Jose Water is putting into place a potable water distribution plan
INFR-a-20	Existing	Public Works, Fleet	
INFR-a-21	Existing	Public Safety, OES Community Services, Information Technology	
INFR-a-22	n/a		
INFR-b-1	Existing	Public Works, Admin and Community Development, Building	Fair Oaks and Wolfe Overpasses retrofitted
INFR-b-2	n/a		
INFR-b-3	Existing	Public Works, Field Services	
INFR-b-4	Existing	Public Works, Engineering and Field Services	City may allocate matching funds
INFR-b-5	Existing	Public Works, Engineering and Field Services	
INFR-b-6	Existing	Public Works, Engineering and Field Services	
INFR-b-7	Existing	Public Works, Engineering and Field Services	new installations
INFR-b-8	Existing	Public Works, Engineering, Community Development, Planning, Community Services, Facilities, Public Safety, Fire Inspection	
INFR-b-9	NYC	•	
INFR-b-10	n/a		
INFR-c-1	Existing	Public Safety, Fire, Community	review new developments, Public Works

		Development, Building, Planning,	test & maintains hydrants
		Public Works	,
INFR-c-2	NYC		
INFR-c-3	NYC		
INFR-c-4	Existing	Public Works, Engineering, Public Safety, Fire	All new developments are specified to have specific access for fire apparatus by Municipal Code and State Building Code
INFR-c-5	n/a		
INFR-c-6	Existing	Community Development, Buidling, Planning, Public Safety, Fire Prevention	
INFR-c-7	Existing	Community Development, Buidling, Planning, Public Safety, Fire	
INFR-c-8	Existing	Public Safey, Fire, Public Works, Engineering	
INFR-d-1	Existing	SCVWD	
INFR-d-2	Existing	SCVWD	
INFR-d-3	Existing	SCVWD	
INFR-d-4	Existing	SCVWD	
INFR-d-5	NYC		
INFR-d-6	Existing	Public Works, Field Services, SCVWD	
INFR-d-7	Existing	SCVWD	
INFR-d-8	Existing	Public Works, Water Pollution Control Services	M.C. 12.60
INFR-d-9	Existing	SCVWD	
INFR-d-10	NYC		
INFR-d-11	Under Study	Public Works, Engineering	In collaboration with SCVWD
INFR-d-12	Existing	SCVWD	
INFR-d-13	Existing	Public Works, Engineering	
INFR-d-14	Existing	Public Works, Water Pollution Control Services	
INFR-d-15	Existing	SCVWD	
INFR-d-16	Existing	SCVWD	
INFR-d-17	Existing	SCVWD	
INFR-d-18	Existing Underfunded	Public Works, Information Technology	
INFR-e-1	n/a		
INFR-e-2	n/a		
INFR-f-1	n/a		
INFR-g-1	Existing	Public Safety, Pacific Gas and Electric	
INFR-g-2	Existing	Public Safety, Public Works, Transportation and Traffic	
INFR-g-3	Existing	Public Works, Field Services	
INFR-g-4	NYC		
INFR-g-5	Existing	Public Safety, OES and Office of the City Manager, Communications	
INFR-g-6	Existing	Public Safety, OES	Invitations to employees are extended during the DSW Training

INFR-g-7	Existing	Public Safety, OES	
LAND-a-1	Existing	Community Development, Planning	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020
LAND-a-2	Existing	Community Development, Planning	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020
LAND-a-3	Existing	Community Development, Planning	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020
LAND-a-4	NYC		
LAND-a-5	NYC		
LAND-a-6	Existing	Community Development, Planning	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020
LAND-a-7	Existing	Community Development, Planning	As requested by the State, we provide the California Geological Survey a copy of all geotechnical reports requried for building permits. There is not an ordinance for this, rather it is an administrative practice by the Building Division.
LAND-a-8	Existing	Community Development, Planning	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020
LAND-b-1	Existing	Public Safety, Fire, Community Development, Building Safety	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020. Also, requirements are included in the Fire Code 16.62.
LAND-b-2	n/a		The City of Sunnyvale is not located within a wildland-uSrban-interface zone.
LAND-c-1	Existing	Public Works, Engineering, Environmental, ,	Hydro-modification plan
LAND-c-2	Existing	Public Works, Admin, Community Development, Building	City floodplain ordinances and development review procedures are consistent with FEMA guidelines. M.C. Section 16.62 has regulations for managing flood hazards.
LAND-c-3	Existing	Community Development, Public Works, Admin	This is a true statement if it relates to activities under the City's Stormwater NPDES Permit
LAND-c-4	Existing	Community Development, Building, Public Works, Admin	City floodplain ordinances and development review procedures are consistent with FEMA guidelines. M.C. Section 16.62 has regulations for managing flood hazards.
LAND-c-5	NYC	Public Works, Admin, Community Development, Building	
LAND-c-6	n/a	Public Works	The City has no repetitive loss properties in its jurisdiction
LAND-d-1	Existing	Community Development, Building, Public Works, Engineering	No unstable slopes, geotechnical reports are required CA Building Code. Adoption of this code is in Section 16.16.020
LAND-d-2	Existing	Community Development, Building, Public Works, Engineering	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020

LAND-d-4 Existing SCVWD LAND-d-5 n/a There are no hillside in Sunnyvale. LAND-e-1 n/a There are no hillsides or wildland-urban interface zones in Sunnyvale LAND-f-1 NYC LAND-f-1 NYC LAND-f-2 NYC LAND-f-3 NYC LAND-f-4 n/a LAND-f-5 NYC LAND-g-1 NYC	LAND-d-3	Existing	Community Development, Building, Public Works, Engineering	This is a requirement of California Building Code. Adoption of this code is in section 16.16.020. This is also required by SMC 16.60.
LAND-e-1 n/a There are no hillsides or wildland-urban interface zones in Sunnyvale LAND-f-1 NYC LAND-f-2 NYC LAND-f-3 NYC LAND-f-4 n/a LAND-f-5 NYC	LAND-d-4	Existing	SCVWD	
LAND-e-2 n/a LAND-f-1 NYC LAND-f-2 NYC LAND-f-3 NYC LAND-f-4 n/a LAND-f-5 NYC	LAND-d-5	n/a		There are no hillside in Sunnyvale.
LAND-f-1 NYC LAND-f-2 NYC LAND-f-3 NYC LAND-f-4 n/a LAND-f-5 NYC	LAND-e-1	n/a		
LAND-f-2 NYC LAND-f-3 NYC LAND-f-4 n/a LAND-f-5 NYC	LAND-e-2	n/a		
LAND-f-3 NYC LAND-f-4 n/a LAND-f-5 NYC	LAND-f-1	NYC		
LAND-f-4 n/a LAND-f-5 NYC	LAND-f-2	NYC		
LAND-f-5 NYC	LAND-f-3	NYC		
	LAND-f-4	n/a		
<u>LAND-g-1</u> NYC	LAND-f-5	NYC		
	LAND-g-1	NYC		

Source: Association of Bay Area Governments, 2009.

22.7.3 Sunnyvale Attachment 3: Sunnyvale Exposure Analysis This list includes all information on Sunnyvale's critical facilities and identifies which of the City's critical facilities are located in the mapped hazard areas.
Santa Clara County Hazard Mitigation Plan

ID	Critical Facility	Address	Type	Occupancy	Own/Lease	Structure Type
1	Hamilton Well and Motor Control Center	1200 Bernardo Ave	N/A	N/A	N/A	N/A
2	Hamilton Well Reservoir 1, 2, 3	1200 Bernardo Ave	N/A	N/A	N/A	N/A
3	Losse Well and Motor Control Center	1118 Jamestown Drive	N/A	N/A	N/A	N/A
4	Westmoor Wellsite and Motor Control Center	829 Homestead Road	N/A	N/A	N/A	N/A
5	Wolfe-Evelyn Reservoir 1	755 Ajax Drive	N/A	N/A	N/A	N/A
6	San Lucar Tank/Pump Station Complex	122 San Lucar Court	N/A	N/A	N/A	N/A
7	San Lucar Reservoir	122 San Lucar Court	N/A	N/A	N/A	N/A
8	Mary Hetch Hetchy Turn Outs	1101 Maude Ave	N/A	N/A	N/A	N/A
9	Lockheed Hetch Hetchy Turn Outs	548 Ross Drive	N/A	N/A	N/A	N/A
10	Palomar Hetch Hetchy Turn Outs	981 Almanor Ave	N/A	N/A	N/A	N/A
11	SCADA Operation	221 Commercial Street	N/A	N/A	N/A	N/A
12	Ortega Well and Motor Control Center	676 Inverness Way	N/A	N/A	N/A	N/A
13	Serra Well and Motor Control Ceter	737 The Dalles	N/A	N/A	N/A	N/A
14	Wolf-Evelyn Tank/Pump Station	755 Ajax Drive	N/A	N/A	N/A	N/A
15	Borregas Hetch Hetcy Turn Outs	924 Borregas Ave	N/A	N/A	N/A	N/A
16	Fair Oaks Hetch Hetchy Turn Outs	642 Greenlake Drive	N/A	N/A	N/A	N/A
17	Lawrence Hetch Hetchy Turn Outs	Lawrence EXPY/Lakehaven Dr	N/A	N/A	N/A	N/A
18	Raynor Well and Motor Control Center	Dunford Way and Patridge Ave	N/A	N/A	N/A	N/A
19	Fairwood Park Buildings	1255 Sandia Ave	N/A	N/A	N/A	N/A
5766	Corporation Yard Garage & Whse	221 Commercial Street	N/A	N/A	N/A	
5767	Corporation Yard Main Building	221 Commercial Street	N/A	N/A	N/A	
5768	Corporation Annex	221 Commercial Street	N/A	N/A	N/A	
5769	Corporation Yard Utility Building	221 Commercial Street	N/A	N/A	N/A	
5770	Lakewood Park Recreation Building	834 Lakechime Drive	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5771	Fire Station #5- Lockheed Wy	1120 Lockheed Way	N/A	N/A	N/A	
5772	Fire Station #4- Wolfe / Maria Ln	996 Wolfe Road	N/A	N/A	N/A	
5773	Mary-Carson Tank / Pump Station complex	155 Mary Avenue	N/A	N/A	N/A	Water pumping plant/station
5774	Mary-Carson Reservoir 1	155 Mary Avenue	N/A	N/A	N/A	
5775	Fire Station #6- Lawrence Sta.	1282 N. Lawrence Station Road	N/A	N/A	N/A	
5776	San Lucar -Kifer Lift Station Reservoir	1300 Kifer	N/A	N/A	N/A	
5777	Lawrence Lift Station	100 Old Mountain View Road	N/A	N/A	N/A	WWLS
5778	Baylands Park Recreation Building / Office	999 E. Caribbean	N/A	N/A	N/A	
5779	Storm Pump House 1	999 E. Caribbean	N/A	N/A	N/A	Water pumping plant/station
5780	Columbia Park Recreation Building	801 Morse Avenue	N/A	N/A	N/A	
5781	Fair Oaks Park Recreation Building	540 Fair Oaks Avenue	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5782	Fire Station #2- Arques	795 E. Arques Avenue	N/A	N/A	N/A	
5783	Fire Station #1- Calif/Mathilda	171 N. Mathilda Avenue	N/A	N/A	N/A	
	Murphy Park Recreation Building	236 N. Sunnyvale Avenue	N/A	N/A	N/A	Wood-frame building > 5,000 SQFT
5785	Schroeder Pump Station	Schroeder		N/A	N/A	Water pumping plant/station
5786	Mary-Carson Reservoir 2	155 Mary Avenue	N/A	N/A	N/A	
5787	Fire Station #3 Ticonderoga	910 Ticonderoga Drive		N/A	N/A	
5788	Community Center - Recreation Center	550 E. Remington Drive		N/A	N/A	
5789	Community Center - Sports Center	550 E. Remington Drive		N/A	N/A	
5790	Jackpine pump site	737 Jackpine Ct			N/A	
	National Guard Armory	485 N. Wolfe Road			N/A	
5792	City Hall	456 W. Olive Avenue		N/A	N/A	
5793	City Hall Annex	650 W. Olive Avenue	N/A	N/A	N/A	

ID Critical Facility	Address	Туре	Occupancy	Own/Lease	Structure Type
5794 Jamestown (Losse) Pump Station	1118 Jamestown	N/A	N/A	N/A	Water pumping plant/station
5795 Las Palmas Park Recreation Building	850 Russet Drive	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5796 Library	665 W. Olive Avenue	N/A	N/A	N/A	
5797 Public Safety Building	700 All America Way	N/A	N/A	N/A	
5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station	755 Ajax Drive	N/A	N/A	N/A	Water pumping plant/station
5799 Braly Park Recreation Building	704 Daffodil Court	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5800 Ponderosa Park Recreation Building	811 Henderson Avenue	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5801 Raynor Park Recreation Building	1565 Quail Avenue	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5802 Washington Park Recreation Building	840 W. Washington Avenue	N/A	N/A	N/A	
5803 Central Well site	Mc Kinley Avenue and Central	N/A	N/A	N/A	Water pumping plant/station
5804 Central Reservoir 1	Mc Kinley Avenue and Central	N/A	N/A	N/A	
5805 Central Reservoir 2	Mc Kinley Avenue and Central	N/A	N/A	N/A	
5806 Community Center - Performing Arts	550 E. Remington Drive	N/A	N/A	N/A	
5807 Community Center - Creative Arts Center	550 E. Remington Drive	N/A	N/A	N/A	
5808 Community Center - Arboretum	550 E. Remington Drive	N/A	N/A	N/A	
5809 Senior Center	550 E. Remington Drive	N/A	N/A	N/A	
5810 De Anza Park Recreation Building	1150 Lime Drive	N/A	N/A	N/A	
5811 Hamilton Tank / Pump Station complex	1200 Bernardo	N/A	N/A	N/A	Water pumping plant/station
5812 Hamilton Reservoir 1	1200 Bernardo	N/A	N/A	N/A	
5813 Hamilton Reservoir 2	1200 Bernardo	N/A	N/A	N/A	
5814 Hamilton Reservoir 3	1200 Bernardo	N/A	N/A	N/A	
5815 Ortega Park Recreation Building	636 Harrow Way	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5816 Serra Park Recreation Building	730 The Dalles	N/A	N/A	N/A	Light wood-frame building <= 5,000 SQFT
5817 Serra Pump Station	737 The Dalles	N/A	N/A	N/A	Water pumping plant/station
5818 Wright Ave Tank / Pump Station complex	1773 Wright Avenue	N/A	N/A	N/A	Water pumping plant/station
5819 Wright Ave Reservoir 1	1773 Wright Avenue	N/A	N/A	N/A	
5820 Wright Ave Reservoir 2	1773 Wright Avenue	N/A	N/A	N/A	
5821 Sunnyvale Landfill	301 Carl Road	N/A	N/A	N/A	
5822 Water Pollution Control Plant-PGF	1444 Borregas Avenue	N/A	N/A	N/A	
5823 Water Pollution Control Plant-Primary	1444 Borregas Avenue	N/A	N/A	N/A	
5824 Water Pollution Control Plant-Digesters	1444 Borregas Avenue	N/A	N/A	N/A	
5825 Water Pollution Control Plant-Reactors	1444 Borregas Avenue	N/A	N/A	N/A	
5826 Water Pollution Control Plant-Media Filters	1444 Borregas Avenue	N/A	N/A	N/A	
5827 Water Pollution Control Plant-Chlorine Tanks	1444 Borregas Avenue	N/A	N/A	N/A	
5828 Water Pollution Control Plant-Dewatering System	1444 Borregas Avenue	N/A	N/A	N/A	
5829 Water Pollution Control Plant-Admin.	1444 Borregas Avenue	N/A	N/A	N/A	
5830 SMaRT Station	301 Carl Road	N/A	N/A	N/A	
5831 Storm Pump House 2	1444 Borregas Avenue	N/A	N/A	N/A	Water pumping plant/station
			Irregularities-	Structural	
ID Critical Facility	Structure Information	Irregularities-Plan View	Vertical	Assessment	Retrofit
1 Hamilton Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
2 Hamilton Well Reservoir 1, 2, 3	N/A	N/A	N/A	N/A	N/A
3 Losse Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
4 Westmoor Wellsite and Motor Control Center	N/A	N/A	N/A	N/A	N/A
5 Wolfe-Evelyn Reservoir 1	N/A	N/A	N/A	N/A	N/A
6 San Lucar Tank/Pump Station Complex	N/A	N/A	N/A	N/A	N/A
7 San Lucar Reservoir	N/A	N/A	N/A	N/A	N/A
8 Mary Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A

				Irregularities-	Structural	
ID	Critical Facility	Structure Information	Irregularities-Plan View	Vertical	Assessment	Retrofit
9	Lockheed Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
10	Palomar Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
11	SCADA Operation	N/A	N/A	N/A	N/A	N/A
12	Ortega Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
	Serra Well and Motor Control Ceter	N/A	N/A	N/A	N/A	N/A
14	Wolf-Evelyn Tank/Pump Station	N/A	N/A	N/A	N/A	N/A
15	Borregas Hetch Hetcy Turn Outs	N/A	N/A	N/A	N/A	N/A
16	Fair Oaks Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
17	Lawrence Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
18	Raynor Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
19	Fairwood Park Buildings	N/A	N/A	N/A	N/A	N/A
5766	Corporation Yard Garage & Whse	N/A	No	N/A	N/A	N/A
	Corporation Yard Main Building	N/A	No	N/A	N/A	N/A
	Corporation Annex	N/A	No	N/A	N/A	N/A
	Corporation Yard Utility Building	N/A	No	N/A	N/A	N/A
	Lakewood Park Recreation Building	N/A	No	N/A	N/A	N/A
	Fire Station #5- Lockheed Wy	N/A	No	N/A	N/A	N/A
	Fire Station #4- Wolfe / Maria Ln	N/A	No	N/A	N/A	N/A
	Mary-Carson Tank / Pump Station complex	N/A	No	N/A	N/A	N/A
	Mary-Carson Reservoir 1	N/A	No	N/A	N/A	N/A
	Fire Station #6- Lawrence Sta.	N/A	No	N/A	N/A	N/A
		N/A	No	N/A	N/A	N/A
	Lawrence Lift Station	N/A	No	N/A	N/A	N/A
	Baylands Park Recreation Building / Office	N/A	No	N/A	N/A	N/A
	Storm Pump House 1	N/A	No	N/A	N/A	N/A
	Columbia Park Recreation Building	N/A	N/A	N/A	N/A	N/A
	Fair Oaks Park Recreation Building	N/A	No	N/A	N/A	N/A
	·	N/A	No	N/A	N/A	N/A
	Fire Station #1- Calif/Mathilda	N/A	No	N/A	N/A	N/A
	Murphy Park Recreation Building	N/A	No	N/A	N/A	N/A
	Schroeder Pump Station	N/A	No	N/A	N/A	N/A
	Mary-Carson Reservoir 2	N/A	No	N/A	N/A	N/A
	Fire Station #3 Ticonderoga	N/A	No	N/A	N/A	N/A
	Community Center - Recreation Center	N/A	No	N/A	N/A	N/A
	Community Center - Sports Center	N/A	No	N/A	N/A	N/A
	Jackpine pump site	N/A	N/A	N/A	N/A	N/A
	National Guard Armory	N/A	No	N/A	N/A	N/A
	City Hall	N/A	No	N/A	N/A	N/A
	City Hall Annex	N/A	No	N/A	N/A	N/A
		N/A	No	N/A	N/A	N/A
	Las Palmas Park Recreation Building	N/A	No	N/A	N/A	N/A
	· · · · · · · · · · · · · · · · · · ·	N/A	No	N/A	N/A	N/A
		N/A	В	A	N/A	N/A
		N/A	No	N/A	N/A	N/A
		N/A	No	N/A	N/A	N/A
		N/A	No	N/A	N/A	N/A
5000			•		i e	I .

				Irregularities-	Structural	
ID	Critical Facility	Structure Information	Irregularities-Plan View	Vertical	Assessment	Retrofit
5802	Washington Park Recreation Building	N/A	No	N/A	N/A	N/A
5803	Central Well site	N/A	No	N/A	N/A	N/A
5804	Central Reservoir 1	N/A	No	N/A	N/A	N/A
5805	Central Reservoir 2	N/A	No	N/A	N/A	N/A
5806	Community Center - Performing Arts	N/A	No	N/A	N/A	N/A
5807	Community Center - Creative Arts Center	N/A	No	N/A	N/A	N/A
5808	Community Center - Arboretum	N/A	No	N/A	N/A	N/A
5809	Senior Center	N/A	No	N/A	N/A	N/A
5810	De Anza Park Recreation Building	N/A	No	N/A	N/A	N/A
5811	Hamilton Tank / Pump Station complex	N/A	No	N/A	N/A	N/A
5812	Hamilton Reservoir 1	N/A	No	N/A	N/A	N/A
5813			No	N/A	N/A	N/A
5814			No	N/A	N/A	N/A
5815		N/A	No	N/A	N/A	N/A
	· ·	N/A	No	N/A		N/A
5817	Ţ	N/A	No	N/A	N/A	N/A
			No	N/A		N/A
	· ·	N/A	No	N/A		N/A
5820	· ·		No	N/A	N/A	N/A
5821	7		N/A	N/A	N/A	N/A
		N/A	No	N/A		N/A
			No	No		N/A
			No	N/A		N/A
	·		No	N/A		N/A
5826			No	N/A	N/A	N/A
			No	N/A		N/A
			No	N/A		N/A
		-	No			N/A
			No	N/A		N/A
			No			N/A
ID	Critical Facility	Anchored Equipment	Alternate Power	Sprinklers	Roof Material	Year Built
1						N/A
2			N/A			N/A
3		•	N/A	N/A		N/A
4			N/A	N/A		N/A
5			N/A	N/A		N/A
6			N/A	N/A		N/A
7			N/A	N/A		N/A
8						N/A
9						N/A
_						N/A
						N/A
						N/A
						N/A
						N/A
						N/A
						N/A
10	ran Jako necentreceny ram Jako	14//1	19/1	1177	11/13	1973

12 Lawrence hetch hetchty Turn Outs	ID	Critical Facility	Anchored Equipment	Alternate Power	Sprinklers	Roof Material	Year Built
18 Bayron Well and Motor Control Center							
19						'	·
\$758 Corporation Yard Starrage & Whee NA 1950	19	•	•			'	
\$727 Corporation Yarr Main Building	5766						
\$788 Corporation Annex						N/A	
\$770 Lakewood Park Recrusion Building	5768	Corporation Annex	N/A		N/A	N/A	1953
ST70 Lakewood Plark Recreation Suiding	5769	Corporation Yard Utility Building	N/A	N/A	yes	N/A	1950
S772 Fire Stanton M-L-Worlder Marriar Lin N/A			N/A	N/A	no	N/A	1964
5773 Many-Carsen Trank / Pump Station complex N/A N/A N/A 1989 5775 Many-Carsen Reservoir 1 N/A N/A N/A N/A 1987 5775 Fire Station Ris-Lawrence Str. N/A N/A N/A no N/A 1950 5776 San Lucer-Kife Lift Station Reservoir N/A N/A N/A no N/A 2001 5778 Boar Lucer-Kife Lift Station Reservoir N/A N/A N/A no N/A N/A 5778 Boar Lucer-Kife Lift Station Reservoir N/A N/A N/A no N/A N/A 5778 Boar Lucer-Kife Lift Station Reservoir R	5771	Fire Station #5- Lockheed Wy	N/A	N/A	no	N/A	1950
5774 May-Carson Reservoir 1	5772	Fire Station #4- Wolfe / Maria Ln	N/A	N/A	no	N/A	1950
5774 May-Carson Reservoir 1	5773	Mary-Carson Tank / Pump Station complex	N/A		no	N/A	1969
577E San Lucar-Kifer LIR Station Reservoir N/A					no	N/A	
S777 Bayland Park Recreation Building / Office N/A N	5775	·		N/A	no	N/A	1950
5777 Baylands Park Recreation Building / Office N/A	5776	San Lucar -Kifer Lift Station Reservoir	N/A	N/A	no	N/A	2001
5778 B Saylands Park Recreation Building / Office N/A N/A N/A 1994 5778 D Storm Pum House I N/A N/A N/A N/A N/A N/A 5780 Columbia Park Recreation Building N/A N/A N/A N/A N/A N/A 5781 Fair Oaks Park Recreation Building N/A N/A N/A no N/A 1969 5782 Fire Station 72-Arques N/A N/A N/A no N/A 1960 5783 Fire Station #1 - Calif-Mathilda N/A N/A N/A no N/A 1960 5785 Schroeder Pump Station N/A N/A N/A no N/A 1969 5787 Fire Station #3 Ticonderoga N/A N/A N/A no N/A 1969 5787 Fire Station #3 Ticonderoga N/A N/A N/A no N/A 1967 5787 Fire Station #3 Ticonderoga N/A N/A N/A N/A N/A 1967 5787 Fire Station #3 Ticonderoga N/A N/A N/A<	5777	Lawrence Lift Station	N/A		no	N/A	N/A
S778 Storm Pump House 1							
5780 Columbia Park Recreation Building N/A 1969 5782 Fire Station R2-Arques N/A N/A N/A N/A N/A N/A 1950 5782 Fire Station R2-Arques N/A N/A N/A N/A N/A 1950 5783 Fire Station R3-Arques N/A N/A N/A N/A N/A 1950 5784 Murphy Park Recreation Building N/A N/A N/A N/A no N/A 1969 5785 Schroeder Pump Station N/A N/A N/A N/A no N/A 1969 5786 Mary-Carson Reservoir 2 N/A N/A N/A no N/A 1967 5787 Fire Station R3 Ticonderoga N/A N/A N/A no N/A 1967 5788 Community Center - Recreation Center N/A N/A N/A N/A 1973 5789 Community Center - Recreation State Center			N/A			N/A	1950
5781 Fair Oaks Park Recreation Building N/A N/A N/A no N/A 1969 7782 Fire Station #1 - CaliffMahilda N/A N/A N/A no N/A 1950 5783 Fire Station #1 - CaliffMahilda N/A N/A N/A N/A no N/A 1960 5785 Schroeder Pump Station N/A N/A N/A no N/A 1969 5786 Schroeder Pump Station N/A N/A N/A no N/A 1969 5786 Schroeder Pump Station N/A N/A N/A no N/A 1969 5786 Schroeder Pump Station N/A N/A N/A N/A no N/A 1967 5787 Fire Station #1 - Califf Mahida N/A N/A N/A N/A no N/A 1967 5788 Community Center - Recreation & Canter N/A N/A N/A N/A N/A 1973 5789 Carbana Park Recreation Euglian N/A N/A N/A N/A N/A N/A							
5782 Fire Station #2 - Arques N/A N/A N/A 1950 5783 Fire Station #2 - Arques N/A N/A N/A 1950 5783 Fire Station #1 - Calif/Mathilda N/A N/A N/A no N/A 1969 5785 Shry Fire Station #3 Ticonderopa N/A N/A N/A no N/A 1969 5786 Mary Carson Reservoir 2 N/A N/A N/A no N/A 1967 5787 Fire Station #3 Ticonderoga N/A N/A N/A no N/A 1950 5788 Community Center - Sports Center N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A 1973 5791 National Guard Armory N/A N/A N/A N/A N/A N/A 5792 City Hall Alman N/A N/A N/A N/A 1961 5793 Sity Hall Annex N/A N/A N/A N/A N/A 1961		Ţ					
6783 Fire Station #1- Calif/Mathilda N/A N/A N/A 1950 5784 Murphy Park Recreation Building N/A N/A N/A no N/A 1969 5785 Schroeder Pump Station N/A N/A N/A no N/A 1969 5786 May-Carson Reservoir 2 N/A N/A N/A no N/A 1967 5787 Fire Station #1- Calif/Mathilda N/A N/A N/A no N/A 1969 5786 Community Center - Recreation Center N/A N/A N/A N/A 1973 5789 Community Center - Recreation Center N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A 1973 5791 Jackpine pump site N/A N/A N/A N/A 1961 5792 List Hal	_						
6784 Murphy Park Recreation Building N/A N/A N/A 1969 5785 Schroeder Pump Station N/A N/A N/A no N/A 1969 5785 Stroeder Pump Station N/A N/A N/A no N/A 1967 5787 Fire Station #3 Ticonderoga N/A N/A N/A no N/A 1950 5788 Community Center - Recreation Center N/A N/A N/A N/A 1973 5789 Community Center - Sports Center N/A N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A<		'					
5785 Schroeder Pump Station N/A N/A N/A 1969 5786 Mary-Carson Reservoir 2 N/A N/A N/A no N/A 1967 5787 Fire Station #3 Ticonderoga N/A N/A N/A no N/A 1950 5788 Community Center - Recreation Center N/A N/A N/A yes N/A 1973 5789 Community Center - Sports Center N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A 1973 5791 Jackpine pump site N/A N/A N/A N/A N/A 1961 5792 City Hall N/A N/A N/A N/A N/A 1961 5792 City Hall Annex N/A N/A N/A N/A N/A 1961 5792 City Hall Annex N/A N/A N/A N/A N/A 1961							
5786 Mary-Carson Reservoir 2 NVA NVA NVA 1967 5787 Fire Station #3 Ticonderoga NVA NVA NVA 1950 5788 Community Center - Sports Center NVA NVA Yes NVA 1973 5789 Community Center - Sports Center NVA NVA NVA 1973 5790 Jackpine pump site NVA NVA NVA NVA NVA 5791 National Guard Armory NVA NVA NVA NVA 1950 5792 City Hall NVA NVA NVA 1961 5793 City Hall Annex NVA NVA NVA 1961 5794 Jamestown (Losse) Pump Station NVA NVA NVA 1961 5795 Las Palmas Park Recreation Building NVA NVA NVA 1964 5796 Library NVA NVA NVA NVA 1960 5797 Public Safety Building NVA NVA NVA 1960 5798 Fally Bark Recreation Building NVA NVA NVA 1985	_	• •					
5787 Fire Station #3 Ticonderoga N/A N/A N/A 1950 5788 Community Center - Recreation Center N/A N/A N/A 1973 5789 Community Center - Sports Center N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A N/A 5791 National Guard Armory N/A N/A N/A N/A 1950 5792 City Hall N/A N/A N/A N/A 1961 5792 City Hall Annex N/A N/A N/A 1961 5793 City Hall Annex N/A N/A N/A 1961 5794 Lamestown (Losse) Pump Station N/A N/A N/A 1961 5795 Las Palmas Park Recreation Building N/A N/A N/A 1971 5796 Library N/A N/A N/A N/A 1971 5797 Palbilic Safety Building N/A N/A N/A 1985 5799 Bray Park Recreation Building N/A N/A N/A		·					
5788 Community Center - Recreation Center N/A N/A yes N/A 1973 5789 Community Center - Sports Center N/A N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A N/A 5791 National Guard Armory N/A N/A N/A no N/A 1950 5792 City Hall N/A N/A N/A N/A 1961 5793 City Hall Annex N/A N/A N/A 1961 5794 Jamestown (Losse) Pump Station N/A N/A N/A 1964 5795 Lisa Palmas Park Recreation Building N/A N/A N/A 1964 5796 Library N/A N/A N/A N/A 1960 5797 Public Safety Building N/A N/A N/A 1985 5798 Jax / Liquidamber Tank site - Wolfe / Evelyn Pump Station N/A N/A N/A 1985 5798 Jax / Liquidamber Tank site - Wolfe / Evelyn Pump Station N/A N/A N/A 1969							
5789 Community Center - Sports Center N/A N/A N/A 1973 5790 Jackpine pump site N/A N/A N/A N/A N/A N/A 5791 National Guard Armory N/A N/A N/A 1950 1950 5792 City Hall N/A N/A N/A 1961 1961 5793 City Hall Annex N/A N/A N/A 1961 1961 5794 Jamestown (Losse) Pump Station N/A N/A N/A 1961 1964 5794 Jamestown (Losse) Pump Station N/A N/A N/A 1964 1964 5794 Jamestown (Losse) Pump Station N/A N/A N/A 1964 1971 1964 5795 Library N/A N/A N/A N/A 1971 1964 1971 1971 1960 1971 1960 1971 1960 1971 1960 1971 1960 1971 1960 1972 1981 1982 1983 1985 1983 1985 1983 1985 <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_						
5790 Jackpine pump site N/A N/A N/A N/A N/A 5791 National Guard Armory N/A N/A N/A no N/A 1950 5792 City Hall N/A N/A yes N/A 1961 5793 City Hall Annex N/A N/A N/A yes N/A 1961 5794 Jamestown (Losse) Pump Station N/A N/A N/A no N/A 1964 5794 Jamestown (Losse) Pump Station N/A N/A N/A no N/A 1964 5795 Library N/A N/A N/A no N/A 1971 5796 Library N/A N/A N/A yes N/A 1960 5797 Public Safety Building N/A N/A N/A yes N/A 1985 5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station N/A N/A N/A no N/A 1969		,			_		
5791 National Guard Armory NVA NVA NVA 1950 5792 City Hall NVA NVA NVA 1961 5793 City Hall Annex NVA NVA NVA 1961 5794 Jamestown (Losse) Pump Station NVA NVA no NVA 1964 5795 Las Palmas Park Recreation Building NVA NVA NVA 1971 5796 Library NVA NVA NVA 1960 5797 Public Safety Building NVA NVA NVA 1985 5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station NVA NVA NVA 1969 5798 Braly Park Recreation Building NVA NVA NVA 1969 5799 Braly Park Recreation Building NVA NVA NVA 1969 5799 Braly Park Recreation Building NVA NVA NVA 1969 5800 Taylor Park Recreation Building NVA NVA NVA 1970 5801 Raynor Park Recreation Building NVA NVA NVA 1970 580	_	·			•		
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5795 Las Palmas Park Recreation Building N/A N/A N/A 1971 5796 Library N/A N/A N/A 1960 5797 Public Safety Building N/A N/A N/A 1985 5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station N/A N/A N/A 1969 5799 Brally Park Recreation Building N/A N/A N/A no N/A 1969 5800 Ponderosa Park Recreation Building N/A N/A N/A no N/A 1970 5801 Raynor Park Recreation Building N/A N/A N/A no N/A 1962 5802 Washington Park Recreation Building N/A N/A N/A no N/A 1962 5803 Central Well site N/A N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A N/A no N/A 1954 5805 Central Reservoir 2	5794	Jamestown (Losse) Pump Station	N/A	N/A		N/A	1964
5796 Library N/A N/A N/A 1960 5797 Public Safety Building N/A N/A N/A 1985 5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station N/A N/A no N/A 1969 5799 Braly Park Recreation Building N/A N/A no N/A 1969 5800 Ponderosa Park Recreation Building N/A N/A no N/A 1970 5801 Raynor Park Recreation Building N/A N/A N/A no N/A 1962 5802 Washington Park Recreation Building N/A N/A N/A no N/A 1945 5803 Central Well site N/A N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A N/A no N/A 1973 5807 Community Center - Creative Arts Center N/A N/A N/A no N/A 1973			N/A		no	N/A	
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5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station N/A N/A no N/A 1969 5799 Braly Park Recreation Building N/A N/A N/A no N/A 1969 5800 Ponderosa Park Recreation Building N/A N/A N/A no N/A 1970 5801 Raynor Park Recreation Building N/A N/A N/A no N/A 1962 5802 Washington Park Recreation Building N/A N/A N/A no N/A 1945 5803 Central Well site N/A N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A N/A 1973 5807 Community Center - Creative Arts Center N/A N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A			N/A	N/A			1985
5799 Braly Park Recreation Building N/A N/A no N/A 1969 5800 Ponderosa Park Recreation Building N/A N/A no N/A 1970 5801 Raynor Park Recreation Building N/A N/A no N/A 1962 5802 Washington Park Recreation Building N/A N/A no N/A 1945 5803 Central Well site N/A N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A N/A 1973 5807 Community Center - Creative Arts Center N/A N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A N/A N/A 1981 5809 Senior Cen					_	N/A	
5800 Ponderosa Park Recreation Building N/A N/A no N/A 1970 5801 Raynor Park Recreation Building N/A N/A no N/A 1962 5802 Washington Park Recreation Building N/A N/A N/A no N/A 1945 5803 Central Well site N/A N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A N/A yes N/A 1973 5807 Community Center - Creative Arts Center N/A N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A N/A no N/A 1981 5809 Senior Center N/A N/A N/A N/A N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
5801 Raynor Park Recreation Building N/A N/A no N/A 1962 5802 Washington Park Recreation Building N/A N/A no N/A 1945 5803 Central Well site N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A N/A 1973 5807 Community Center - Creative Arts Center N/A N/A N/A 1973 5808 Community Center - Arboretum N/A N/A N/A N/A 1981 5809 Senior Center N/A N/A N/A 1981		·					
5802 Washington Park Recreation Building N/A N/A no N/A 1945 5803 Central Well site N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A yes N/A 1973 5807 Community Center - Creative Arts Center N/A N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A N/A no N/A 1981 5809 Senior Center N/A N/A N/A yes N/A 2003		ÿ					
5803 Central Well site N/A N/A no N/A 1954 5804 Central Reservoir 1 N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A N/A 1973 5807 Community Center - Creative Arts Center N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A N/A no N/A 1981 5809 Senior Center N/A N/A N/A yes N/A 2003							
5804 Central Reservoir 1 N/A N/A no N/A 1954 5805 Central Reservoir 2 N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A yes N/A 1973 5807 Community Center - Creative Arts Center N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A no N/A 1981 5809 Senior Center N/A N/A yes N/A 2003							
5805 Central Reservoir 2 N/A N/A no N/A 1954 5806 Community Center - Performing Arts N/A N/A yes N/A 1973 5807 Community Center - Creative Arts Center N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A no N/A 1981 5809 Senior Center N/A N/A yes N/A 2003							
5806 Community Center - Performing Arts N/A N/A yes N/A 1973 5807 Community Center - Creative Arts Center N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A no N/A 1981 5809 Senior Center N/A N/A yes N/A 2003							
5807 Community Center - Creative Arts Center N/A N/A no N/A 1973 5808 Community Center - Arboretum N/A N/A no N/A 1981 5809 Senior Center N/A N/A yes N/A 2003							
5808 Community Center - Arboretum N/A N/A no N/A 1981 5809 Senior Center N/A N/A yes N/A 2003					•		
5809 Senior Center N/A N/A yes N/A 2003		·					
		•					
					•	N/A	1957

ID Critical Facility	Anchored Equipment	Alternate Power	Sprinklers	Roof Material	Year Built
5811 Hamilton Tank / Pump Station complex	N/A	l	no	N/A	1962
5812 Hamilton Reservoir 1	N/A		no	N/A	1962
5813 Hamilton Reservoir 2	N/A	N/A	no	N/A	1962
5814 Hamilton Reservoir 3	N/A		no	N/A	1962
5815 Ortega Park Recreation Building	N/A		no	N/A	1969
5816 Serra Park Recreation Building	N/A	N/A	no	N/A	1965
5817 Serra Pump Station	N/A	N/A	no	N/A	1967
5818 Wright Ave Tank / Pump Station complex	N/A	N/A	no	N/A	1969
5819 Wright Ave Reservoir 1	N/A		no	N/A	1969
5820 Wright Ave Reservoir 2	N/A	N/A	no	N/A	1969
5821 Sunnyvale Landfill	N/A		N/A	N/A	N/A
5822 Water Pollution Control Plant-PGF	N/A		no	N/A	1997
5823 Water Pollution Control Plant-Primary	N/A		no	N/A	1955
5824 Water Pollution Control Plant-Digesters	N/A	N/A	no	N/A	1968
5825 Water Pollution Control Plant-Reactors	N/A	N/A	no	N/A	1977
5826 Water Pollution Control Plant-Media Filters	N/A		no	N/A	1977
5827 Water Pollution Control Plant-Chlorine Tanks	N/A	N/A	no	N/A	1977
5828 Water Pollution Control Plant-Dewatering System	N/A		no	N/A	1996
5829 Water Pollution Control Plant-Admin.	N/A	N/A	no	N/A	1990
5830 SMaRT Station	N/A	N/A	yes	N/A	1993
5831 Storm Pump House 2	N/A	N/A	no	N/A	1950
			Bldg Insured	Contents Insured	
ID Critical Facility	Stories	Capacity	Value	Value	
1 Hamilton Well and Motor Control Center	N/A	N/A	2427000		
2 Hamilton Well Reservoir 1, 2, 3	N/A	N/A	1984000		
3 Losse Well and Motor Control Center	N/A	N/A	585000		
4 Westmoor Wellsite and Motor Control Center	N/A	N/A	614000		
5 Wolfe-Evelyn Reservoir 1	N/A	N/A	3893000		
6 San Lucar Tank/Pump Station Complex	N/A	N/A	1452000		
7 San Lucar Reservoir	N/A	N/A	2039000		
8 Mary Hetch Hetchy Turn Outs	N1 / A		_005000		
	N/A	N/A	2003000		
9 Lockheed Hetch Hetchy Turn Outs	N/A	N/A	185000		
9 Lockheed Hetch Hetchy Turn Outs 10 Palomar Hetch Hetchy Turn Outs	N/A N/A	N/A N/A			
·	N/A N/A N/A	N/A N/A N/A	185000 1140000		
10 Palomar Hetch Hetchy Turn Outs	N/A N/A N/A N/A	N/A N/A N/A N/A	185000 1140000 1006000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation	N/A N/A N/A	N/A N/A N/A N/A N/A	185000 1140000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	185000 1140000 1006000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	185000 1140000 1006000 813000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	185000 1140000 1006000 813000 1277000 195000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs	N/A	N/A	185000 1140000 1006000 813000 1277000 195000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs 17 Lawrence Hetch Hetchy Turn Outs 18 Raynor Well and Motor Control Center 19 Fairwood Park Buildings	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000 41000	7000	
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs 17 Lawrence Hetch Hetchy Turn Outs 18 Raynor Well and Motor Control Center 19 Fairwood Park Buildings 5766 Corporation Yard Garage & Whse	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000 41000 3939000	889000	
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs 17 Lawrence Hetch Hetchy Turn Outs 18 Raynor Well and Motor Control Center 19 Fairwood Park Buildings 5766 Corporation Yard Garage & Whse 5767 Corporation Yard Main Building	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000 41000 3939000 1831000		
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs 17 Lawrence Hetch Hetchy Turn Outs 18 Raynor Well and Motor Control Center 19 Fairwood Park Buildings 5766 Corporation Yard Garage & Whse 5767 Corporation Yard Main Building 5768 Corporation Annex	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000 41000 3939000	889000	
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs 17 Lawrence Hetch Hetchy Turn Outs 18 Raynor Well and Motor Control Center 19 Fairwood Park Buildings 5766 Corporation Yard Garage & Whse 5767 Corporation Yard Main Building 5768 Corporation Annex 5769 Corporation Yard Utility Building	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000 41000 3939000 1831000 2605000 2090000	889000 225000	
10 Palomar Hetch Hetchy Turn Outs 11 SCADA Operation 12 Ortega Well and Motor Control Center 13 Serra Well and Motor Control Ceter 14 Wolf-Evelyn Tank/Pump Station 15 Borregas Hetch Hetcy Turn Outs 16 Fair Oaks Hetch Hetchy Turn Outs 17 Lawrence Hetch Hetchy Turn Outs 18 Raynor Well and Motor Control Center 19 Fairwood Park Buildings 5766 Corporation Yard Garage & Whse 5767 Corporation Yard Main Building 5768 Corporation Annex	N/A	N/A	185000 1140000 1006000 813000 1277000 195000 375000 1299000 41000 3939000 1831000 2605000	889000	

			Bldg Insured	Contents Insured	
ID Critical Facility	Stories	Capacity	Value	Value	
5772 Fire Station #4- Wolfe / Maria Ln	1	4115	892000	180000	
5773 Mary-Carson Tank / Pump Station complex	1	1500	1181000		
5774 Mary-Carson Reservoir 1	1		3893000		
5775 Fire Station #6- Lawrence Sta.	1	4115	810000	155000	
5776 San Lucar -Kifer Lift Station Reservoir	0		2039000		
5777 Lawrence Lift Station	0		262000		
5778 Baylands Park Recreation Building / Office	1	2923	1130527		
5779 Storm Pump House 1	1	1200	1206000		
5780 Columbia Park Recreation Building	N/A				
5781 Fair Oaks Park Recreation Building	1	2560	428000	107000	
5782 Fire Station #2- Arques	1	6609	2568000	351000	
5783 Fire Station #1- Calif/Mathilda	1	5549	1120000	251000	
5784 Murphy Park Recreation Building	1	6490	967000	95000	
5785 Schroeder Pump Station	1	81	48000		
5786 Mary-Carson Reservoir 2	1		3893000		
5787 Fire Station #3 Ticonderoga	1	4115	944000	199000	
5788 Community Center - Recreation Center	1	18123	3831000	370000	
5789 Community Center - Sports Center	1	19912	4681000	168000	
5790 Jackpine pump site	N/A				
5791 National Guard Armory	1	14500	933660		
5792 City Hall	1	34672	9162000		
5793 City Hall Annex	1	17950	3655000		
5794 Jamestown (Losse) Pump Station	1	112	585000		
5795 Las Palmas Park Recreation Building	1	2600	392000	39000	
5796 Library	1	60600	10888000	8506000	
5797 Public Safety Building	2	40869	12514000	2503000	
5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station	1	1500	1227000		
5799 Braly Park Recreation Building	1	2600	390000	39000	
5800 Ponderosa Park Recreation Building	1	2600	465000	39000	
5801 Raynor Park Recreation Building	1	1440	969000		
5802 Washington Park Recreation Building	1	4850	776000	26000	
5803 Central Well Site and Motor Control Center	1	1076	374000		
5804 Central Reservoir 1	1		505000		
5805 Central Reservoir 2	1		809000		
5806 Community Center - Performing Arts	1	11096	3776000	182000	
5807 Community Center - Creative Arts Center	1	9280	2055000	308000	
5808 Community Center - Arboretum	1	3915	413000	152000	
5809 Senior Center	1	23000	7882000	605000	
5810 De Anza Park Recreation Building	1	1430	242000	21000	
5811 Hamilton Tank / Pump Station complex	1	1368	771000		
5812 Hamilton Reservoir 1	1		809000		
5813 Hamilton Reservoir 2	1		809000		
5814 Hamilton Reservoir 3	1		809000		
5815 Ortega Park Recreation Building	1	1500	319000	22000	
5816 Serra Park Recreation Building	1	1440	243000	22000	
5817 Serra Pump Station	1	88	102242	-	
5818 Wright Ave Tank / Pump Station complex	1	1334	764000		
J	+	 	+	 	

ID	Critical Facility	Stories	Capacity	Bldg Insured Value	Contents Insured Value	
	Wright Ave Reservoir 1	1	Capacity	3893000	value	
	Wright Ave Reservoir 2	1		3893000		
	Sunnyvale Landfill	N/A		000000		
	Water Pollution Control Plant-PGF	1	3229	18000000		
	Water Pollution Control Plant-Primary	3	11115	5069000		
	Water Pollution Control Plant-Digesters	1	13502	11214000		
	Water Pollution Control Plant-Reactors	1	20808	9714000		
	Water Pollution Control Plant-Media Filters	1	7750	5845000		
	Water Pollution Control Plant-Chlorine Tanks	1	20440	3590000		
	Water Pollution Control Plant-Dewatering System	1	16000	980000		
_	Water Pollution Control Plant-Admin.	1	3840	1132000		
	SMaRT Station	1	400000	14281000	13000000	
	Storm Pump House 2	1	1500	734000		
			Wildland-Urban Interface (WU			
ID	Critical Facility	# of Dams	Fire Threat	Threat	FEMA Flood Zone	Tsunami
1	Hamilton Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
2	Hamilton Well Reservoir 1, 2, 3	N/A	N/A	N/A	N/A	N/A
3	Losse Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
4	Westmoor Wellsite and Motor Control Center	N/A	N/A	N/A	N/A	N/A
5	Wolfe-Evelyn Reservoir 1	N/A	N/A	N/A	N/A	N/A
6	San Lucar Tank/Pump Station Complex	N/A	N/A	N/A	N/A	N/A
7	San Lucar Reservoir	N/A	N/A	N/A	N/A	N/A
8	Mary Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
9	Lockheed Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
10	Palomar Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
11	SCADA Operation	N/A	N/A	N/A	N/A	N/A
12	Ortega Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
13	Serra Well and Motor Control Ceter	N/A	N/A	N/A	N/A	N/A
14	Wolf-Evelyn Tank/Pump Station	N/A	N/A	N/A	N/A	N/A
15	Borregas Hetch Hetcy Turn Outs	N/A	N/A	N/A	N/A	N/A
16	Fair Oaks Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
17	Lawrence Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
18	Raynor Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
19	Fairwood Park Buildings	N/A	N/A	N/A	N/A	N/A
5766	Corporation Yard Garage & Whse		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5767	Corporation Yard Main Building		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5768	Corporation Annex		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5769	Corporation Yard Utility Building		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5770	Lakewood Park Recreation Building		0 Outside WUI fire hazard area	Moderate	100 Year	Not Affected
5771	Fire Station #5- Lockheed Wy		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5772	Fire Station #4- Wolfe / Maria Ln		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5773	Mary-Carson Tank / Pump Station complex		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5774	Mary-Carson Reservoir 1		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5775	Fire Station #6- Lawrence Sta.		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5776	San Lucar -Kifer Lift Station Reservoir		0 Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5777	Lawrence Lift Station		0 Outside WUI fire hazard area	Moderate	100 Year	Not Affected
5778	Baylands Park Recreation Building / Office		0 Outside WUI fire hazard area	Moderate	100 Year	Not Affected

		Wildland-Urban Interface (WUI)	Wildfire		
ID Critical Facility	# of Dams	Fire Threat	Threat	FEMA Flood Zone	Tsunami
5779 Storm Pump House 1	0	Outside WUI fire hazard area	Moderate	100 Year	Not Affected
5780 Columbia Park Recreation Building		Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5781 Fair Oaks Park Recreation Building	-	Outside WUI fire hazard area	Moderate		Not Affected
5782 Fire Station #2- Arques		Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5783 Fire Station #1- Calif/Mathilda	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5784 Murphy Park Recreation Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5785 Schroeder Pump Station	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5786 Mary-Carson Reservoir 2		Outside WUI fire hazard area	Moderate		Not Affected
5787 Fire Station #3 Ticonderoga	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5788 Community Center - Recreation Center	1	Fire-threatened area	Moderate	500 Year	Not Affected
5789 Community Center - Sports Center	1	Fire-threatened area	Moderate	500 Year	Not Affected
5790 Jackpine pump site	0	Fire-threatened area	Moderate	500 Year	Not Affected
5791 National Guard Armory	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5792 City Hall	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5793 City Hall Annex	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5794 Jamestown (Losse) Pump Station	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5795 Las Palmas Park Recreation Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5796 Library	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5797 Public Safety Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5799 Braly Park Recreation Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5800 Ponderosa Park Recreation Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5801 Raynor Park Recreation Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5802 Washington Park Recreation Building	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5803 Central Well site	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5804 Central Reservoir 1	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5805 Central Reservoir 2	0	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5806 Community Center - Performing Arts	1	Fire-threatened area	Moderate	500 Year	Not Affected
5807 Community Center - Creative Arts Center	1	Fire-threatened area	Moderate	500 Year	Not Affected
5808 Community Center - Arboretum	1	Fire-threatened area	Moderate	500 Year	Not Affected
5809 Senior Center	1	Fire-threatened area	Moderate	500 Year	Not Affected
5810 De Anza Park Recreation Building	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5811 Hamilton Tank / Pump Station complex	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5812 Hamilton Reservoir 1	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5813 Hamilton Reservoir 2	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5814 Hamilton Reservoir 3	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5815 Ortega Park Recreation Building	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5816 Serra Park Recreation Building	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5817 Serra Pump Station	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5818 Wright Ave Tank / Pump Station complex	1	Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5819 Wright Ave Reservoir 1		Outside WUI fire hazard area	Moderate	500 Year	Not Affected
5820 Wright Ave Reservoir 2	1	Outside WUI fire hazard area	Moderate		Not Affected
5821 Sunnyvale Landfill	0	Outside WUI fire hazard area	Moderate		Not Affected
5822 Water Pollution Control Plant-PGF		Outside WUI fire hazard area	Moderate		Not Affected
5823 Water Pollution Control Plant-Primary	0	Outside WUI fire hazard area	Moderate		Not Affected
				+	

			Wildland-Urban Interface (WUI)			
ID	Critical Facility	# of Dams	Fire Threat	Threat	FEMA Flood Zone	Tsunami
5825	Water Pollution Control Plant-Reactors		Outside WUI fire hazard area	Moderate		Not Affected
	Water Pollution Control Plant-Media Filters		Outside WUI fire hazard area	Moderate	100 Year	Not Affected
	Water Pollution Control Plant-Chlorine Tanks		Outside WUI fire hazard area	Moderate	100 Year	Not Affected
5828	Water Pollution Control Plant-Dewatering System		Outside WUI fire hazard area	Moderate	100 Year	Not Affected
5829	Water Pollution Control Plant-Admin.	0	Outside WUI fire hazard area	Moderate	100 Year	Not Affected
	SMaRT Station		Outside WUI fire hazard area	Moderate	100 Year	Not Affected
5831	Storm Pump House 2	0	Outside WUI fire hazard area	Moderate		Not Affected
ID	Critical Facility	Existing Landslide Areas	EQ-Induced Landslide	EQ Shake Potential	Liquefaction Susceptibility	EQ-Induced Liquefaction
1	· · · · · · · · · · · · · · · · · · ·		N/A			N/A
2			N/A			N/A
3	Losse Well and Motor Control Center		N/A	N/A	N/A	N/A
4			N/A			N/A
5			N/A			N/A
6	,		N/A			N/A
7	, 1		N/A			N/A
8			N/A			N/A
9	, ,		N/A			N/A
10	•	N/A	N/A	N/A	N/A	N/A
11	SCADA Operation	N/A	N/A	N/A	N/A	N/A
12	Ortega Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
13	Serra Well and Motor Control Ceter	N/A	N/A	N/A	N/A	N/A
14	Wolf-Evelyn Tank/Pump Station	N/A	N/A	N/A	N/A	N/A
15	Borregas Hetch Hetcy Turn Outs	N/A	N/A	N/A	N/A	N/A
16		N/A	N/A	N/A	N/A	N/A
17	Lawrence Hetch Hetchy Turn Outs	N/A	N/A	N/A	N/A	N/A
18	Raynor Well and Motor Control Center	N/A	N/A	N/A	N/A	N/A
19	Fairwood Park Buildings	N/A	N/A	N/A	N/A	N/A
5766	Corporation Yard Garage & Whse	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Outside of CGS Liquefaction Zone
5767	Corporation Yard Main Building	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Outside of CGS Liquefaction Zone
5768	Corporation Annex	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Outside of CGS Liquefaction Zone
5769	Corporation Yard Utility Building	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Outside of CGS Liquefaction Zone
5770	Lakewood Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5771	Fire Station #5- Lockheed Wy	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5772	Fire Station #4- Wolfe / Maria Ln	Surficial Deposits	Outside of CGS Landslide Zone	55	Low	Outside of CGS Liquefaction Zone
5773	Mary-Carson Tank / Pump Station complex	Surficial Deposits	Outside of CGS Landslide Zone	55	Moderate	Liquefaction Hazard Zone
5774	Mary-Carson Reservoir 1	Surficial Deposits	Outside of CGS Landslide Zone	55	Moderate	Liquefaction Hazard Zone
5775	Fire Station #6- Lawrence Sta.	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5776	San Lucar -Kifer Lift Station Reservoir	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5777	Lawrence Lift Station	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5778	Baylands Park Recreation Building / Office	Surficial Deposits	Outside of CGS Landslide Zone		Moderate	Liquefaction Hazard Zone
5779	Storm Pump House 1	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5780	Columbia Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
5781	Fair Oaks Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone			Liquefaction Hazard Zone
5782	Fire Station #2- Arques	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
	Fire Station #1- Calif/Mathilda	Surficial Deposits	Outside of CGS Landslide Zone		Moderate	Liquefaction Hazard Zone
5784	Murphy Park Recreation Building	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
5785 Schroeder Pump Station	Surficial Deposits	Outside of CGS Landslide Zone			Liquefaction Hazard Zone
5786 Mary-Carson Reservoir 2	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Liquefaction Hazard Zone
5787 Fire Station #3 Ticonderoga	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5788 Community Center - Recreation Center	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5789 Community Center - Sports Center	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5790 Jackpine pump site	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5791 National Guard Armory	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5792 City Hall	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5793 City Hall Annex	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5794 Jamestown (Losse) Pump Station	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5795 Las Palmas Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5796 Library	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5797 Public Safety Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5798 Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5799 Braly Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5800 Ponderosa Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5801 Raynor Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5802 Washington Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5803 Central Well site	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5804 Central Reservoir 1	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5805 Central Reservoir 2	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5806 Community Center - Performing Arts	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5807 Community Center - Creative Arts Center	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5808 Community Center - Arboretum	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5809 Senior Center	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5810 De Anza Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5811 Hamilton Tank / Pump Station complex	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Outside of CGS Liquefaction Zone
5812 Hamilton Reservoir 1	Surficial Deposits	Outside of CGS Landslide Zone	55 Mc	oderate	Outside of CGS Liquefaction Zone
5813 Hamilton Reservoir 2	Surficial Deposits	Outside of CGS Landslide Zone	55 Mc	oderate	Outside of CGS Liquefaction Zone
5814 Hamilton Reservoir 3	Surficial Deposits	Outside of CGS Landslide Zone	55 Mc	oderate	Outside of CGS Liquefaction Zone
5815 Ortega Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone	55 Lo		Outside of CGS Liquefaction Zone
5816 Serra Park Recreation Building	Surficial Deposits	Outside of CGS Landslide Zone	65 Lo		Outside of CGS Liquefaction Zone
5817 Serra Pump Station	Surficial Deposits	Outside of CGS Landslide Zone	65 Lo	DW	Outside of CGS Liquefaction Zone
5818 Wright Ave Tank / Pump Station complex	Surficial Deposits	Outside of CGS Landslide Zone	65 Lo	DW	Outside of CGS Liquefaction Zone
5819 Wright Ave Reservoir 1	Surficial Deposits	Outside of CGS Landslide Zone	65 Lo		Outside of CGS Liquefaction Zone
5820 Wright Ave Reservoir 2	Surficial Deposits	Outside of CGS Landslide Zone	65 Lo		Outside of CGS Liquefaction Zone
5821 Sunnyvale Landfill	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Liquefaction Hazard Zone
5822 Water Pollution Control Plant-PGF	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5823 Water Pollution Control Plant-Primary	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5824 Water Pollution Control Plant-Digesters	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5825 Water Pollution Control Plant-Reactors	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Liquefaction Hazard Zone
5826 Water Pollution Control Plant-Media Filters	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5827 Water Pollution Control Plant-Chlorine Tanks	Surficial Deposits	Outside of CGS Landslide Zone		oderate	Liquefaction Hazard Zone
5828 Water Pollution Control Plant-Dewatering System	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5829 Water Pollution Control Plant-Admin.	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5830 SMaRT Station	Surficial Deposits	Outside of CGS Landslide Zone	75 Mc	oderate	Liquefaction Hazard Zone
5831 Storm Pump House 2	Surficial Deposits	Outside of CGS Landslide Zone			Liquefaction Hazard Zone

ID	Critical Facility	Sea Level Rise 16"	Sea Level Rise 55"		
1	·		N/A		
2	Hamilton Well Reservoir 1, 2, 3	N/A	N/A		
3	Losse Well and Motor Control Center		N/A		
4	Westmoor Wellsite and Motor Control Center		N/A		
5	Wolfe-Evelyn Reservoir 1		N/A		
6	San Lucar Tank/Pump Station Complex		N/A		
7	San Lucar Reservoir	N/A	N/A		
8	Mary Hetch Hetchy Turn Outs	N/A	N/A		
9	Lockheed Hetch Hetchy Turn Outs	N/A	N/A		
10	Palomar Hetch Hetchy Turn Outs	N/A	N/A		
11	SCADA Operation	N/A	N/A		
12	Ortega Well and Motor Control Center	N/A	N/A		
13	Serra Well and Motor Control Ceter	N/A	N/A		
14	Wolf-Evelyn Tank/Pump Station	N/A	N/A		
15	Borregas Hetch Hetcy Turn Outs	N/A	N/A		
16	Fair Oaks Hetch Hetchy Turn Outs		N/A		
17	Lawrence Hetch Hetchy Turn Outs	N/A	N/A		
18	Raynor Well and Motor Control Center	N/A	N/A		
19	Fairwood Park Buildings	N/A	N/A		
5766	Corporation Yard Garage & Whse	Not Affected	Not Affected		
5767	Corporation Yard Main Building	Not Affected	Not Affected		
5768	Corporation Annex	Not Affected	Not Affected		
5769	Corporation Yard Utility Building	Not Affected	Not Affected		
5770	Lakewood Park Recreation Building	Not Affected	Not Affected		
5771	Fire Station #5- Lockheed Wy	Not Affected	Not Affected		
5772	Fire Station #4- Wolfe / Maria Ln	Not Affected	Not Affected		
5773	Mary-Carson Tank / Pump Station complex	Not Affected	Not Affected		
5774	Mary-Carson Reservoir 1	Not Affected	Not Affected		
5775	Fire Station #6- Lawrence Sta.	Not Affected	Not Affected		
5776	San Lucar -Kifer Lift Station Reservoir	Not Affected	Not Affected		
5777	Lawrence Lift Station	Affected	Affected		
5778	Baylands Park Recreation Building / Office	Affected	Affected		
5779	Storm Pump House 1	Affected	Affected		
5780	Columbia Park Recreation Building	Not Affected	Not Affected		
5781	Fair Oaks Park Recreation Building	Not Affected	Not Affected		
5782	Fire Station #2- Arques	Not Affected	Not Affected		
	Fire Station #1- Calif/Mathilda	Not Affected	Not Affected		
5784	Murphy Park Recreation Building	Not Affected	Not Affected		
	Schroeder Pump Station		Not Affected		
5786	Mary-Carson Reservoir 2	Not Affected	Not Affected		
5787	Fire Station #3 Ticonderoga	Not Affected	Not Affected		
	Community Center - Recreation Center	Not Affected	Not Affected		
5789	Community Center - Sports Center		Not Affected		
	Jackpine pump site		Not Affected		
	National Guard Armory		Not Affected		
	City Hall		Not Affected		
	City Hall Annex		Not Affected		
5794	Jamestown (Losse) Pump Station	Not Affected	Not Affected		

ID	Critical Facility	Sea Level Rise 16"	Sea Level Rise 55"		
5795	Las Palmas Park Recreation Building	Not Affected	Not Affected		
5796	Library	Not Affected	Not Affected		
5797	Public Safety Building	Not Affected	Not Affected		
5798	Ajax / Liquidamber Tank site - Wolfe / Evelyn Pump Station	Not Affected	Not Affected		
5799	Braly Park Recreation Building	Not Affected	Not Affected		
5800	Ponderosa Park Recreation Building	Not Affected	Not Affected		
5801	Raynor Park Recreation Building	Not Affected	Not Affected		
5802	Washington Park Recreation Building	Not Affected	Not Affected		
5803	Central Well site	Not Affected	Not Affected		
5804	Central Reservoir 1	Not Affected	Not Affected		
5805	Central Reservoir 2	Not Affected	Not Affected		
5806	Community Center - Performing Arts	Not Affected	Not Affected		
5807	Community Center - Creative Arts Center	Not Affected	Not Affected		
5808	Community Center - Arboretum	Not Affected	Not Affected		
	Senior Center	Not Affected	Not Affected		
5810	De Anza Park Recreation Building	Not Affected	Not Affected		
5811	Hamilton Tank / Pump Station complex	Not Affected	Not Affected		
	Hamilton Reservoir 1	Not Affected	Not Affected		
5813	Hamilton Reservoir 2	Not Affected	Not Affected		
5814	Hamilton Reservoir 3	Not Affected	Not Affected		
5815	Ortega Park Recreation Building	Not Affected	Not Affected		
5816	Serra Park Recreation Building	Not Affected	Not Affected		
	Serra Pump Station	Not Affected	Not Affected		
5818	Wright Ave Tank / Pump Station complex	Not Affected	Not Affected		
5819	Wright Ave Reservoir 1	Not Affected	Not Affected		
5820	Wright Ave Reservoir 2	Not Affected	Not Affected		
	Sunnyvale Landfill	Affected	Affected		
5822	Water Pollution Control Plant-PGF	Affected	Affected		
5823	Water Pollution Control Plant-Primary	Affected	Affected		
5824	Water Pollution Control Plant-Digesters	Affected	Affected		
5825	Water Pollution Control Plant-Reactors	Affected	Affected		
5826	Water Pollution Control Plant-Media Filters	Affected	Affected		
5827	Water Pollution Control Plant-Chlorine Tanks	Affected	Affected		
5828	Water Pollution Control Plant-Dewatering System	Affected	Affected		
	Water Pollution Control Plant-Admin.	Affected	Affected		
5830	SMaRT Station	Affected	Affected		
5831	Storm Pump House 2	Affected	Affected		

22.7.4 Sunnyvale Attachment 4: Sunnyvale Repetitive Loss This correspondence demonstrates the removal of the City of Sunnyvale's only repetitive loss property from future concern for damage since it has been mitigated.							

From:

"Harper, Sherry" <SHarper@iso.com>

To:

"Michael Chan" <MChan@ci.sunnyvale.ca.us>

Date:

10/3/2007 4:09 PM

Subject:

RE: RL Properties - Sunnyvale, CA

Technically, the property is removed. Per FEMA's policy and procedure, the property will continue to be shown as a mitigated repetitive loss property, and the information relayed to the city.

----Original Message----

From: Michael Chan [mailto:MChan@ci.sunnyvale.ca.us]

Sent: Wednesday, October 03, 2007 10:05 AM

To: Harper, Sherry

Subject: RE: RL Properties - Sunnyvale, CA

Ms. Harper, is it possible to have this property removed from future lists, or does it need to show as mitigated and a packet sent to the City each year? Thanks for the quick followup.

>>> On 10/2/2007 at 5:33 PM, "Harper, Sherry" <SHarper@iso.com> wrote: Dear Mr. Chan:

Records indicate the 1 repetitive loss property in the City of Sunnyvale has been updated as mitigated. There should be a note at the bottom of the AW501 that states this is no longer considered a repetitive loss property. Accordingly, since it has been mitigated, you need do nothing further.

----Original Message----

From: Michael Chan [mailto:MChan@ci.sunnyvale.ca.us]

Sent: Tuesday, October 02, 2007 5:55 PM

To: Harper, Sherry

Subject: RL Properties - Sunnyvale, CA

Dear Ms. Harper, I am writing to request the removal of the one repetitive loss property shown under the jurisdiction of the City of Sunnyvale, California.

In 2003, I sent Mr. Henry Gambrill documentation that showed the factors that caused the loss had been rectified through a Public Works stormwater project. Mr. Gambrill in May 2003 agreed with our findings and was to remove the property from future RL listings. Unfortunately, we have been receiving these lists for several years now with the RL still showing. Would you please help remove this item from future listings? Thanks.