



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: Dennis Hawkins, CMC
City Clerk

DATE: 09-28-12

A handwritten signature in black ink, appearing to read "Dennis Hawkins", is written over the printed name and title.

**SUBJECT: MEASURE B – THE SANTA CLARA VALLEY WATER DISTRICT’S
“SAFE, CLEAN, WATER PROGRAM**

RECOMMENDATION

As recommended by Rules and Open Government Committee on September 26, 2012, and outlined in the attached memorandum previously submitted to the Rules and Open Government Committee:

It is recommended that the City Council support the Santa Clara Valley Water District’s Measure B on the November 6, 2012 General Election ballot.



Memorandum

TO: RULES AND OPEN
GOVERNMENT COMMITTEE

FROM: Betsy Shotwell

SUBJECT: SEE BELOW

DATE: September 18, 2012

Approved

Date

9/19/12

**SUBJECT: MEASURE B – THE SANTA CLARA VALLEY WATER DISTRICT’S
“SAFE, CLEAN, WATER PROGRAM”**

RECOMMENDATION

It is recommended that:

1. The City Council support the Santa Clara Valley Water District’s Measure B on the November 6 General Election ballot.
2. The Committee provide a one-week turnaround for Mayor and City Council review as there is no regularly scheduled Council meeting on October 9.

BACKGROUND

If passed by the voters, the Santa Clara Valley Water District’s (SCVWD) Measure B would continue the existing special parcel tax known as the “Clean, Safe Creeks and Natural Flood Protection Plan” for an additional 15 years. The original measure was passed by County voters in November 2000 and expires in 2016. The proposed renewal of the special parcel tax would not increase tax rates, and requires two-thirds voter support. The “Safe, Clean Water and Natural Flood Protection Program” is the District’s blueprint for spending the funds that would be raised by the measure.

ANALYSIS

The Measure B ballot measure reads as follows:

Safe, Clean Water Program

To:

- Ensure safe, reliable water supply;
- Reduce toxins, hazards and contaminants in waterways;
- Protect water supply and dams from earthquakes and natural disasters;

- Restore wildlife habitat and provide open space;
- Provide flood protection to homes, schools and businesses;
- Provide safe, clean water in creeks and bays,

Shall Santa Clara Valley Water District renew an existing, expiring parcel tax without increasing rates, and issue bonds, described in Resolution 12-62, with independent citizen oversight and annual audits?

A fact sheet, analysis, and the staff recommendation of Measure B are attached.

PUBLIC OUTREACH

- Criteria 1:** Requires Council action on the use of public funds equal to \$1 million or greater. **(Required: Website Posting)**
- Criteria 2:** Adoption of a new or revised policy that may have implications for public health, safety, quality of life, or financial/economic vitality of the City. **(Required: E-mail and Website Posting)**
- Criteria 3:** Consideration of proposed changes to service delivery, programs, staffing that may have impacts to community services and have been identified by staff, Council or a Community group that requires special outreach. **(Required: E-mail, Website Posting, Community Meetings, Notice in appropriate newspapers)**

This document will be posted on the City's website for the September 26, Rules and Open Government Committee where Council and the public will have the opportunity to comment.

COORDINATION

This memorandum was coordinated with: Environmental Services, Public Works, Parks, Recreation and Neighborhood Services, Planning, Building & Code Enforcement Departments and the City Attorney's Office.



BETSY SHOTWELL
Director, Intergovernmental Relations

For questions please contact Betsy Shotwell at 408-535-8270

Measure B: Safe, Clean Water Program

Recommended City Position: Support

Background and Analysis:

To ensure we have safe, clean water in Santa Clara County for years to come, the Santa Clara Valley Water District has placed a measure on the November 2012 ballot to renew expiring local funding for another 15 years. Funding from Measure B, would:

- Ensure a safe, reliable water supply
- Reduce toxins, hazards and contaminants, such as mercury and pharmaceuticals, in our waterways
- Protect our water supply and local dams from earthquakes and natural disasters
- Restore fish, bird and wildlife habitat and provide open space access
- Provide flood protection to homes, businesses, schools, streets and highways

Measure B includes independent fiscal oversight and accountability, requires all expenditures to be published annually, includes exemptions for low-income senior citizens, and requires external oversight by an independent monitoring committee.

Measure B would continue the existing special parcel tax known as the "Clean, Safe Creeks and Natural Flood Protection Plan" for an additional 15 years. The original measure was passed by County voters in November 2000 and expires in 2016. The proposed renewal of the special parcel tax would not increase tax rates, and requires two-thirds voter support. The tax currently costs \$54 a home and would increase by 3 percent a year.

The following projects are among the Safe, Clean Water projects that would benefit the City of San Jose :

Anderson Dam Seismic Retrofit – To conduct Anderson Dam seismic retrofit design and construction to improve the safety and reliability of the reservoir in case of earthquakes.

Upper Penitencia Creek Flood Protection- (Coyote Creek to Dorel Drive, San Jose) To protect more than 5,000 homes, schools and businesses from flooding, while improving stream habitat and providing open space access opportunities.

Pipeline Reliability Project – To improve the reliability of drinking water pipelines by improving scheduled maintenance or for repairs following a catastrophic event such as a major earthquake.

Good Neighborhood Program: Illegal Encampment Cleanup Program – To reduce trash and other pollutants from entering waterways from illegal encampments by continuing to coordinate with cities through District activities.

Interagency Urban Runoff Program – To reduce pollution in urban runoff by continuing participation in the Santa Clara Valley Urban Runoff Pollution Prevention Program.

Grants and Partnerships – To restore wildlife habitat and provide access to trails in partnership with local organizations.

Supporters:

The cities of Morgan Hill, Palo Alto, and Saratoga. The Chambers of Commerce of Campbell, Cupertino, Gilroy, Milpitas, Morgan Hill, Mountain View, Palo Alto, San Jose Silicon Valley, Santa Clara, and Sunnyvale. NAACP San Jose/Silicon Valley Branch. The Silicon Valley Leadership Group. Save the Bay.

Opponents:

The Silicon Valley Taxpayers' Association, which filed a lawsuit on September 7 to nullify Measure B. The lawsuit alleges that the SCVWD violated California's open meetings law by failing to provide adequate public notice of a special meeting it held on August 8 to shorten the text of the measure by two words.

Policy Alignment:

This analysis is consistent with the Council adopted 2012 Legislative Guiding Principles as stated under the "promote livability, sustainable development and environmental protection" section.

A summary of the SCVWD's "Safe, Clean Water and Natural Flood Protection Community Recommended Plan" is attached.

Safe, Clean Water and Natural Flood Protection

Community-recommended plan details

Long-term priorities

- A** Ensure a Safe, Reliable Water Supply
- B** Reduce Toxins, Hazards and Contaminants in Our Waterways
- C** Protect Our Water Supply and Dams from Earthquakes and Natural Disasters
- D** Restore Wildlife Habitat and Provide Open Space
- E** Provide Flood Protection to Local Homes, Businesses, Schools, Streets and Highways

A Ensure a Safe, Reliable Water Supply

Projects under Priorities B and C also specifically support the goal to "Ensure a Safe, Reliable Water Supply for the Future."

PROJECT A1	Main and Madrone Pipeline Restoration
GOAL	To upgrade aging transmission systems to ensure a reliable supply of safe, clean water.
DESCRIPTION	Restore Main and Madrone pipelines to full operating capacity of 37 cubic feet per second from Anderson Reservoir.
BENEFITS	<ul style="list-style-type: none"> ▪ Increase groundwater recharge by about 5,000 acre-feet per year in the Llagas Groundwater Sub-basin ▪ Improve operational flexibility ▪ Maximize the supply of imported water to the treatment plants supplying drinking water to North County ▪ Save energy, reduce operation costs and cut CO2 emission by reducing dependence on Coyote Pumping Plant
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$5.4 million



Ensure a Safe, Reliable Water Supply

PROJECT A2

Safe, Clean Water Partnerships and Grants

GOAL	To improve drinking water quality, and preserve future water resources.
DESCRIPTION	<p>Among the grants and partnerships covered under this project are:</p> <ol style="list-style-type: none"> 1. Grants to develop new water conservation programs. The grants would be for agencies and organizations to study and pilot-test new water conservation programs. In Fiscal Year 2010, water conservation stood at 50,600 acre feet (AF). 2. Grants to help schools in the county provide drinking water dispensers and other potable water devices for students. California Senate Bill 1413 requires that schools provide access to free, fresh drinking water during meal times in school food service areas. 3. Rebates to private well water users for the installation of point-of-use treatment systems to remove excess nitrate from their drinking water.
BENEFITS	<ul style="list-style-type: none"> ■ Help the District exceed the conservation level of 98,500 acre-feet per year by 2030 ■ Reduce water demands and, therefore, the need to invest in new or expanded water supply sources and associated infrastructure ■ Increase water supply reliability ■ Help schools provide safe, clean drinking water to students and comply with state mandate ■ Assist well water users to maintain the quality of their drinking water
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$2.2 million

PROJECT A3

Pipeline Reliability Project

GOAL	To improve the reliability of drinking water distribution system.
DESCRIPTION	Construct four line valves at various locations along the East, West and Snell treated water pipelines in Saratoga, Cupertino and San Jose. It will allow the District to isolate sections of pipelines for scheduled maintenance or for repairs following a catastrophic event such as a major earthquake.
BENEFITS	<ul style="list-style-type: none"> ■ Improve drinking water reliability ■ Promote a shorter system outage time following pipeline breaks ■ Provide operational flexibility for pipeline maintenance work



Ensure a Safe, Reliable Water Supply

GEOGRAPHIC AREA OF BENEFIT

Mountain View, Sunnyvale, Santa Clara, Cupertino, Saratoga, Los Gatos, Los Altos, Campbell, San Jose and Milpitas

ESTIMATED FUNDING FROM
SAFE, CLEAN WATER PLAN

\$7.3 million

B Reduce Toxins, Hazards and Contaminants in Our Waterways

Project and programs under this priority also support the Priority A goal to "Ensure a Safe, Reliable Water Supply for the Future."

PROJECT B1 Impaired Water Bodies Improvement

GOAL	To reduce and remove sources of regulated contaminants, such as mercury, in our local streams, reservoirs, lakes and wetlands and improve surface water quality.
DESCRIPTION	Helps District meet surface water quality standards and reduce pollutants in streams, groundwater, lakes and reservoirs. This would be carried out in compliance with the Regional Water Quality Control Board (RWQCB) Total Maximum Daily Loads (TMDL) standards as they continue to evolve. TMDLs are the maximum amount of a pollutant that a water body can receive and still safely meet water quality standards. Under the program, the District would also create realistic plans and expectations for reducing contaminant loads by engaging in the development process with RWQCB for new regulated contaminants, and employ treatment systems in reservoirs to reduce methylation of mercury.
BENEFITS	<ul style="list-style-type: none"> ■ Reduce contamination in creeks and reservoirs ■ Improve water quality, including water going to drinking water treatment plants ■ Reduce mercury in reservoirs that may otherwise be integrated into the food chain ■ Meet regulatory compliance with TMDL requirements ■ Improve fisheries as a result of reduced contamination
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$21.0 million

PROJECT B2 Inter-agency urban runoff program

GOAL	To reduce toxins and contaminants in streams, reservoirs, wetlands and lakes, and maintain District compliance with the regulatory requirements for stormwater-related issues.
DESCRIPTION	Partnerships to reduce pollution in urban runoff by continuing participation in Santa Clara Valley Urban Runoff Pollution Prevention (SCVURPP) and South County programs, and help the District maintain compliance with the regulatory requirements for stormwater-related issues, while reducing contaminants in surface water. In addition, the District would provide review, analysis and comments on various basin plan amendments, TMDL, and listings of water bodies as impaired or threatened by a pollutant, under the federal Clean Water Act in order to effectively represent the District's interest in the regulatory development process; and participate in regional stormwater pollution prevention public

B

Reduce Toxins, Hazards and Contaminants in Our Waterways

outreach activities.

BENEFITS	<ul style="list-style-type: none"> ■ Reduce contaminants and improve surface water quality in our streams, reservoirs, lakes and wetlands through partnerships ■ Maintain District compliance with RWQCB and National Pollutant Discharge Elimination System (NPDES) permits ■ Continue participation in Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) and South County urban runoff programs ■ Increase public engagement in stormwater pollution prevention through outreach
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$11.4 million

PROJECT B3

Pollution Prevention Partnerships and Grants

GOAL	To help community partners reduce toxins and contaminants in surface water (streams, reservoirs, wetlands and lakes).
DESCRIPTION	<p>Provide grants to local agencies, non-profit groups, schools, etc. every other year, totaling \$400,000 per cycle, and partner with municipalities on designated projects or specific programs, totaling \$200,000 a year, to reduce emerging contaminants in surface water, and reduce contaminants in surface or groundwater.</p> <p>Examples of projects/programs might include providing grants to reduce pharmaceuticals entering local waterways, technical assistance to growers for groundwater protection, and partnerships to reduce litter and graffiti.</p>
BENEFITS	<ul style="list-style-type: none"> ■ Reduce contaminants, such as pharmaceuticals/household wastes and trash, entering our waterways ■ Meet regulatory requirements for reducing contaminants listed under the Impaired water bodies listing of the federal Clean Water Act ■ Reduce contaminant source loads in groundwater or surface water ■ Protect local watersheds from contaminants or emerging contaminants ■ Reduce contaminants in our waterways through public outreach ■ Leverage community resources
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$7.3 million

B

Reduce Toxins, Hazards and Contaminants in Our Waterways

PROJECT B4

Good Neighbor Program: Illegal Encampment Cleanup Program

GOAL	To reduce trash and other pollutants from entering local creeks and reduce damage to District facilities from illegal encampments.
DESCRIPTION	Continue to coordinate with cities and through District activities for the cleanup of large illegal encampments, including coordinating with police departments for cleanups, and conducting illegal encampment cleanups to reduce pollutants in waterways.
BENEFITS	<ul style="list-style-type: none">▪ Reduce trash and other pollutant load in surface water, including streams, reservoirs and wetlands▪ Improve aesthetics of creeks in neighborhoods and parks▪ Coordinate efforts among local agencies
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$4.1 million

PROJECT B5

Hazardous Materials Management and Response

GOAL	To improve hazardous material removal response and protect streams, groundwater and reservoirs from hazardous material releases
DESCRIPTION	Maintain District capacity to provide a local, toll-free number to report spills; respond to hazardous materials incidents within two hours of report; initiate cleanup when a spill is on District right-of-way; and inform the appropriate agencies when the spill is not on District right-of-way property.
BENEFITS	<ul style="list-style-type: none">▪ Prevent and reduce contaminants in surface and groundwater▪ Prompt a systematic response to hazardous materials releases
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$0.5 million

B

Reduce Toxins, Hazards and Contaminants in Our Waterways

PROJECT B6

Good Neighbor Programs: Remove Graffiti and Litter

GOAL To remove trash from creeks; repair/install fencing and remove graffiti on District facilities; and protect local watersheds from contamination.

DESCRIPTION Respond to complaints regarding illegal dumping, trash and graffiti; hold quarterly cleanups of problem sites to remove trash from the creeks; keep headwalls, concrete embankments, signs, structures and other District assets clean of graffiti; and keep District fences and gates in a safe and aesthetic condition.

BENEFITS

- Reduce contaminants, such as trash, in our local waterways
- Improve appearance of waterways in neighborhoods and parks by removing trash and graffiti, etc.
- Prevent illegal dumping of waste in waterways by repairing/installing fencing on District property
- Coordinate a response to specific community concerns regarding trash and graffiti

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$7.8 million

PROJECT B7

Support Volunteer Cleanup Efforts and Education

GOAL To reduce toxins and contaminants from entering our streams and the bay.

DESCRIPTION Support volunteer efforts, through grants and partnerships, for cleanup, education, outreach and watershed stewardship activities. Under this program, the District would also continue to provide support to cleanup activities such as Coastal Cleanup Day, National River Cleanup Day, and Adopt-A-Creek. It would support Creek Connections Action Group and creekwise education.

BENEFITS

- Reduce contaminants entering our waterways or groundwater
- Engage community
- Leverage community resources

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$2.2 million



Protect Our Water Supply and Dams from Earthquakes and Natural Disasters

Project and programs under this priority also support the Priority A goal to "Ensure a Safe, Reliable Water Supply for the Future."

PROJECT C1

Anderson Dam Seismic Retrofit

GOAL

To protect our water supply and dams from the impacts of natural disasters, like earthquakes.

DESCRIPTION

Conduct Anderson Dam seismic retrofit design and construction to improve its reliability and safety in case of earthquakes.

Anderson Dam, which creates the county's largest surface water reservoir, captures local rainfall runoff and can also be used to store imported water from the Central Valley Project. Water from Anderson Reservoir is used to supply water to treatment plants and to recharge the groundwater basin.

Anderson reservoir is currently limited to 68 percent of its actual capacity because of seismic concerns, which costs Santa Clara County valuable drinking water resources.

In compliance with environmental laws, reservoir releases are also made to ensure appropriate flows and temperatures are maintained for downstream habitat. In addition, the District regulates reservoir releases to minimize the risk of uncontrollable releases from the reservoir that might exceed the flow capacity of downstream waterways and channels, which could result in downstream flooding.

A breach of Anderson Reservoir at full capacity could have catastrophic consequences, including the inundation of more than 30 miles northwest to San Francisco Bay and more than 40 miles southeast to Monterey Bay.

BENEFITS

- Bring the dam in compliance with today's seismic standards
- Increase reliability and safety of our area's largest reservoir in case of earthquakes
- Restore Anderson Reservoir to its full capacity of approximately 30 billion gallons, thus regaining 32 percent or 9.3 billion gallons of water storage capacity for our current and future supply
- Eliminate operational restrictions issued by the state Division of Safety of Dams
- Ensure regulatory compliance with environmental laws requiring reservoir releases to ensure appropriate flows and temperatures are maintained for downstream habitat
- Minimize the risk of uncontrollable releases from the reservoir in excess of the flow capacity of downstream waterways, which could result in downstream flooding

GEOGRAPHIC AREA OF BENEFIT

Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN

\$45 million



Protect Our Water Supply and Dams from Earthquakes and Natural Disasters

PROJECT C2

Emergency Response Upgrades

GOAL

To improve emergency response and reduce flood damages.

DESCRIPTION

Improve the overall emergency response by developing an automated flood-warning system that uses real-time rainfall data to predict stream flows, potential flood risk and timing. Disseminate information to emergency responders and to public via web, texting, auto-calls, etc., to alert proper entities about potential flooding.

BENEFITS

- Prepare for effective response to storm-related emergencies
- Provide flood frequency and forecast services
- Assist municipalities and citizens when needed to lessen potential flood impacts
- Work with municipalities to clearly identify roles and responsibilities for floodplain management and emergency management
- Maintain and make available technical resources to assist municipalities in floodplain management activities
- Promote community awareness of flood risks
- Implement risk reduction strategies consistent with FEMA's Community Rating System as appropriate

GEOGRAPHIC AREA OF BENEFIT

Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN

\$2.7 million



Restore Wildlife Habitat and Provide Open Space

PROJECT D1

Management of Revegetation Projects

GOAL To maintain existing and future revegetation projects to ensure regulatory compliance and sustain riparian habitats.

DESCRIPTION Provide for the District maintenance of at least 300 acres of existing revegetation projects throughout the five watersheds; provide for the maintenance of future revegetation sites; and ensure that design objectives of all revegetation projects are maintained.

- BENEFITS**
- Maintain 300 acres of existing revegetation
 - Comply with environmental laws
 - Maintain future revegetation projects related to flood protection and water supply
 - Monitor habitat functions

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$17.1 million

PROJECT D2

Revitalize Stream, Upland and Wetland Habitat

GOAL To revitalize stream, upland and wetland habitat by maintaining plants where needed and removing invasive species.

DESCRIPTION Remove non-native invasive plants that displace native plants and habitat; revegetate with native species when necessary; control populations of selected species, primarily Arundo, and pursue opportunities to educate stakeholder groups about invasive plant species.

- BENEFITS**
- Improve functionality of riparian and wetland habitat
 - Increase connectivity between creek reaches that have previously been improved
 - Improve function of existing habitat patches
 - Restore ecological functions as afforded by native plants
 - Improve terrestrial wildlife passage by increasing connectivity of habitat
 - Improve habitat by removing non-native species and planting tidal and riparian species
 - Increase viability of native riparian species by eliminating competition from exotic invasive species
 - Increase community awareness of invasive plant impacts to native ecosystems

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$14.2 million



Restore Wildlife Habitat and Provide Open Space

PROJECT D3

Grants and partnerships to restore wildlife habitat and provide access to trails

GOAL

To protect and restore stream and wetland habitat and provide open space access.

DESCRIPTION

Seven grant cycles held every other year and separate partnerships with local organizations. The grants and partnerships would be for activities such as developing a priority list of streams restoration projects, creating or enhancing wetland and riparian habitat, protecting special status species, removing fish migration barriers and installation of fish ladders, removing non-native invasive species, planting native species, and providing public access to creekside trails or trails that provide a significant link to the creekside trail network. Examples may include a bridge over Coyote Creek in the Rock Spring area.

BENEFITS

- Enhance creek and bay ecosystem
- Improve fish passage and habitat
- Enhance trail and open space access
- Leverage community funding through grants
- Increased collaboration/partnerships with stakeholders (including cities, county, non-profit organizations and schools) for stewardship activities
- Contribute to the environmental objectives related to flood protection and water supply

GEOGRAPHIC AREA OF BENEFIT

Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN

\$23.5 million

PROJECT D4

Fish Habitat and Passage Improvement

GOAL

To restore and maintain healthy steelhead trout population by improving fish passage and habitat.

DESCRIPTION

Implement measures to improve fish habitat and passage, which could include improvements at Alamos Creek at Lake Almaden and Ogier Ponds; and conduct studies of steelhead streams in Santa Clara County with consideration for improvement of fish habitat, including use of large woody debris.

BENEFITS

- Improve spawning and rearing habitat within the Coyote and Guadalupe watersheds
- Improve steelhead trout population
- Contribute toward current efforts to mitigate environmental impacts of reservoir and recharge operations

GEOGRAPHIC AREA OF BENEFIT

San Jose

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN

\$15.0 million



Restore Wildlife Habitat and Provide Open Space

PROJECT D5

Ecological Data Collection and Analysis

GOAL To develop comprehensive watershed baseline information on stream ecosystem conditions to help make informed watershed and asset management decisions.

DESCRIPTION Continue to implement the District's ecological monitoring and assessment framework on an on-going basis; integrate and enhance the District's stewardship actions through a standardized, repeatable and defensible approach that guides, organizes and integrates information on ecological conditions of streams; and share stream ecosystem condition information with the public, land-use agencies and the environmental resource agencies.

- BENEFITS**
- Improve watershed and asset management decisions
 - Provide systematic and scientific information to guide decisions and actions to improve stream conditions
 - Provide design options for capital projects that integrate environmental enhancements
 - Provide information to make informed decisions on locating wetland and riparian mitigation and enhancement sites
 - Provide for habitat resources in support of water supply and flood protection programs

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$7.0 million

PROJECT D6

Creek Restoration and Stabilization

GOAL Increase the stability of stream channels and riparian system functions through improvement projects based on geomorphic data.

DESCRIPTION Collect geomorphic parameter data and construct projects, such as Corner Debris Basin removal on Calabazas Creek, and reduce/prevent incision and promote sediment balance in Stevens and Uvas creeks.

- BENEFITS**
- Restore creeks
 - Stabilize channels and protect constructed infrastructure (bridges, roads)
 - Improve recharge capability of channels
 - Reduce annual maintenance cost for sediment removal

GEOGRAPHIC AREA OF BENEFIT Saratoga, Mountain View, Sunnyvale, Gilroy

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$12.8 million



Restore Wildlife Habitat and Provide Open Space

PROJECT D7

Partnerships for the Conservation of Habitat Lands

GOAL	To acquire important habitat land to preserve local ecosystems.
DESCRIPTION	Partnerships to help implement the Valley Habitat Plan through the purchase of property for the conservation of habitat lands.
BENEFITS	<ul style="list-style-type: none"> ■ Fulfill a portion of the District's acre allocation to the Valley Habitat Plan ■ Protect, enhance and restore natural resources in the county ■ Contribute to the recovery of special status species ■ Provide for potential endangered species and wetlands mitigation bank resources related to water supply and flood protection programs
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$8.0 million

PROJECT D8

South Bay Salt Ponds Restoration Partnership

GOAL	Facilitate the South Bay Salt Ponds Restoration effort through beneficial reuse of local sediments from streams flowing into San Francisco Bay.
DESCRIPTION	Develop a long-term program in partnership with U.S. Fish and Wildlife Service to reuse clean sediment at environmentally appropriate locations to improve the success of the Salt Ponds Restoration activities.
BENEFITS	<ul style="list-style-type: none"> ■ Support and accelerate success of the regional tidal wetland restoration project ■ Eliminate annual disposal costs for sediment removed from local channels for flood capacity ■ Increase space availability in local landfills for other users
GEOGRAPHIC AREA OF BENEFIT	Countywide
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$4.2 million

Provide Flood Protection to Homes, Businesses and Schools

PROJECT E1 Vegetation Control and Sediment Removal for Flood Protection

GOAL To maintain design conveyance capacity of flood protection projects to reduce flood risks and provide access for maintenance activities.

DESCRIPTION Maintain design conveyance capacity of flood-protection projects by in-stream vegetation control and sediment removal. This would entail controlling in-stream vegetation at appropriate intervals; pruning and removing hazardous trees; managing vegetation and providing access for equipment and personnel performing maintenance activities; providing weed abatement to establish firebreaks to maintain watershed assets and to meet fire code regulations; undertaking biological pre-construction surveys on facilities before carrying out in-stream vegetation control activities; and removing sediment deposits at appropriate intervals.

- BENEFITS**
- Provide flood protection
 - Improve water quality
 - Provide safe access for maintaining creek channels
 - Reduce fire risks along creeks

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$31.6 million

PROJECT E2 Emergency Response Planning

GOAL To improve emergency response planning and reduce flood damages.

DESCRIPTION Work with municipalities to clearly identify roles and responsibilities for floodplain management and emergency management; develop communication plans and web-based information that will be accessible before, during and after a flood event; coordinate outreach to residents and businesses throughout the county to send and support uniform messages; and develop written, site-specific flood fighting plans for watersheds.

- BENEFITS**
- Reduce flood damages
 - Provide effective coordinated response to storm-related emergencies
 - Provide flood frequency and forecast services
 - Improve community awareness about flood risks

GEOGRAPHIC AREA OF BENEFIT Countywide

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$3.1 million

Provide Flood Protection to Homes, Businesses and Schools

PROJECT E3 Flood Risk Reduction Studies

GOAL To develop engineering studies, including remapping flood-prone areas, to update flood risks for the county.

DESCRIPTION Develop engineering studies to understand the actual flood risk in high-priority flood-prone areas, and develop options for managing the flood risks. The studies would focus on Alamos Creek, upstream of Lake Almaden, in San Jose; Calera Creek, Milpitas High School to I-680, in Milpitas; tributaries to Lower Silver Creek (Ruby, Norwood, Quimby and Fowler creeks) in San Jose; and the Rock Spring area along Coyote Creek in San Jose. The study would include hydrology, hydraulics, geotechnical and remapping work of the floodplain areas. If appropriate, updated maps will be submitted to FEMA to more accurately reflect the floodplain.

BENEFITS

- May remove hundreds of parcels from FEMA regulatory floodplain, based on updated mapping standards
- Produce more accurate mapping of areas at risk of flooding
- Information can be integrated into flood-warning program to provide advance, real-time warnings of impending flood events
- Provide technical basis for developing future plans for flood protection

GEOGRAPHIC AREA OF BENEFIT Milpitas and San Jose

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$7.9 million

PROJECT E4 Upper Penitencia Creek Flood Protection – Coyote Creek to Dorel Drive in San Jose

GOAL To protect more than 5,000 homes, schools and businesses from flooding, while improving stream habitat and providing open space access opportunities.

DESCRIPTION This project partners with the Army Corps of Engineers to plan, design, and construct improvements along 4.2 miles of Upper Penitencia Creek from the confluence with Coyote Creek to Dorel Drive. Potential damages from a 100-year flood event are estimated at \$455 million.

The project includes:

- Open space/parkland to serve as a modified floodplain to preserve natural channel.
- Possible trail and park elements via collaborations with City of San José and Santa Clara County, consistent with Tri-Party agreement and City and County Park Master Plans.
- Possible sediment basins to reduce sediment load on Upper Penitencia Creek and through to Coyote Creek
- Possible modifications of existing water diversion structures to improve use of water rights and protect habitat

Provide Flood Protection to Homes, Businesses and Schools

BENEFITS	<ul style="list-style-type: none"> ▪ Provide 100-year flood protection to more than 5,000 homes, schools and businesses ▪ Improve stream habitat ▪ Reduce sedimentation and maintenance requirements ▪ Improve water quality in Coyote Creek ▪ Provide opportunities to integrate recreation improvements consistent with the City of San José and Santa Clara County Park master plan
GEOGRAPHIC AREA OF BENEFIT	San Jose
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$41.9 million

PROJECT E5

San Francisquito Creek Flood Protection – San Francisco Bay to Middlefield Road, Palo Alto

GOAL	To protect more than 3,000 homes and businesses, and city infrastructure, while enhancing long-term water quality, wildlife habitat and recreational opportunities.
DESCRIPTION	Complete construction of projects that provide 100-year flood protection and ecosystem benefits from San Francisco Bay to Hwy-101, and construction of projects that provide approximately 50-year flood protection, ecosystem and recreational benefits, between Hwy-101 and Middlefield Road. The work will include modifying bridges at University Avenue, Newell Road, Middlefield Road and Pope/Chaucer Street, addressing additional channel constrictions upstream of Hwy-101, and setback levees and floodwalls downstream of Hwy-101. The project is sponsored by the San Francisquito Creek Joint Powers Authority, of which the District is a member agency, in partnership with the Army Corps of Engineers. Additional benefits may be realized if federal funding from the Army Corps is available. The project builds on the planning and design tasks initiated as part of the Clean, Safe Creeks program and are on track to be completed.
BENEFITS	<ul style="list-style-type: none"> ▪ Provide flood protection to more than 3,000 parcels in Palo Alto ▪ Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek ▪ Provide new or improved habitats for endangered species and enhanced recreational opportunities for the community ▪ Improve water quality
GEOGRAPHIC AREA OF BENEFIT	Palo Alto
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$35.5 million

Provide Flood Protection to Homes, Businesses and Schools

PROJECT E6

Upper Llagas Creek Flood Protection, from Buena Vista Ave. to Wright Ave. – Morgan Hill, San Martin, Gilroy

GOAL	To provide flood protection to 1,100 homes, 500 businesses, and 1,300 agricultural acres, while improving stream habitat.
DESCRIPTION	This project continues a Clean, Safe Creeks 2000 project, in partnership with the U.S. Army Corps of Engineers, to plan, design, and construct improvements along 13.6 miles of channel extending from Buena Vista Ave. to Wright Ave., including West Little Llagas Creek. Measures include channel modification and replacement of road crossings.
BENEFITS	<ul style="list-style-type: none"> ■ Provide 100-year flood capacity for four miles of channel in the downtown Morgan Hill, protecting 1,100 homes and 500 businesses ■ Provide 10-year flood protection to 1,300 agricultural acres in Morgan Hill, Gilroy and San Martin ■ Improve stream habitat values and fisheries ■ Create additional wetlands ■ Improve stream water quality ■ Identify opportunities to integrate recreation improvements
GEOGRAPHIC AREA OF BENEFIT	Morgan Hill, San Martin and Gilroy
ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN	\$39.1 million

PROJECT E7

San Francisco Bay Shoreline Study – Milpitas, Mountain View, Palo Alto, San Jose, Santa Clara and Sunnyvale

GOAL	To plan, design and complete construction documents for tidal flood protection measures along the south San Francisco Bay Shoreline.
DESCRIPTION	The project is a partnership with the California State Coastal Conservancy, the Army Corps of Engineers and stakeholders to produce a feasibility study, design, and to acquire land in anticipation of project construction to improve the San Francisco Bay Shoreline to provide tidal flood protection, restore and enhance tidal marsh and related habitats and provide recreational and public access opportunities throughout the tidal floodplain of Santa Clara County. The project will rely on federal funding for the Army Corps of Engineers to review and approve.
BENEFITS	<ul style="list-style-type: none"> ■ Provide for tidal flood protection improvements to the south bay shoreline that encompasses nearly 4,700 acres, including more than 5,000 structures and roads, highways, parks, airports and sewage treatment plants

Provide Flood Protection to Homes, Businesses and Schools

- Restore and enhance tidal marsh and related habitats
- Provide recreational and public access opportunities

GEOGRAPHIC AREA OF BENEFIT Milpitas, Mountain View, Palo Alto, San Jose, Santa Clara and Sunnyvale

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$20.0 million

PROJECT E8 Upper Guadalupe River Flood Protection – San Jose

GOAL To provide flood protection to 6,280 homes, 320 businesses, and 10 schools/institutions.

DESCRIPTION This project continues a Clean, Safe Creeks 2000 project, in partnership with the Army Corps, to plan, design and construct improvements along 5.5 miles of channel extending from I-280 to Blossom Hill Road. Measures include channel widening, construction of floodwalls and levees, replacement of road crossings and planting of stream-side vegetation.

- BENEFITS
- Provide 100-year flood conveyance capacity for 5.5 miles of channel in San Jose, protecting 6,280 homes, 320 businesses, and 10 schools/institutions
 - Improve stream habitat values and fisheries
 - Improve stream water quality
 - Allow for creek-side trail access

GEOGRAPHIC AREA OF BENEFIT San Jose

ESTIMATED FUNDING FROM SAFE, CLEAN WATER PLAN \$18.3 million