

Pico Power Project

Appendix 7-A *Water Resources Will-Serve Letters*

- *City of Santa Clara Potable Water*
- *City of Santa Clara Sanitary Sewer*
- *South Bay Water Recycling Recycled Water*

October 2002



September 16, 2002

Mr. Michael J. Fox
Consultant to Silicon Valley Power
City Hall
1500 Warburton Avenue
Santa Clara, CA 95050

Re. Pico Power Project – “Will Serve” letter for Potable Water

Dear Mr. Fox:

We have reviewed your July 19, 2002 letter to us concerning the proposed Pico Power Project (Project) to be located at 850 Duane Avenue, Santa Clara, California. While the predicted infrequent use of potable water as a back up to recycled water will have insignificant impact to the groundwater supply in the local aquifers, such a high water demand (approximately 1.65 million gallons a day) would be impossible to serve by the City’s existing water distribution system. Therefore, the only viable solution would be to install a new water supply well in the vicinity of the Project that connects to the existing potable water distribution system at the same location as the proposed potable service to the Project.

Please accept this “Will Serve” letter for potable water as City of Santa Clara Water Utility’s commitment to the Project to provide 100% of the potable water requirements for the following services:

1. The City will serve 100% of the Project’s potable water demand for domestic water and fire protection needs.
2. The City will provide 100% of the back-up potable water requirements (up to 1.65 MGD) to supply process water during periods when the recycled water system is not available to serve the Project’s process water requirements.

This “Will Serve” letter is conditioned on the following:

1. The Project will use recycled water as its primary source of process water and may use potable water as a secondary source only when the primary source is interrupted or unavailable.
2. The Project must provide the necessary land and pay for a new potable water well and appurtenances.
3. The Project must satisfy the standard development fees for the public water improvements.

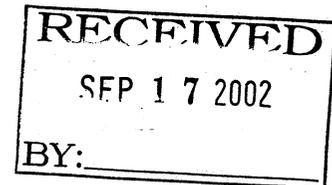
If you have any questions, please contact the undersigned at 615-2012.

Sincerely,


Dennis K. Ma, P.E.
Assistant Director of Water Utility

cc: Chron File
John Roukema, Silicon Valley Power

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Democracy ~ Diversity ~ Distinction
1852 - 2002*

1500 Warburton Avenue
Santa Clara, CA 95050
(408) 615-2000
FAX (408) 247-0784
www.ci.santa-clara.ca.us

SANTA CLARA
C A L I F O R N I A

A detailed black and white illustration of the City of Santa Clara, California, featuring a prominent church with a bell tower and a cross on top, surrounded by other buildings and trees.

THE CITY OF SANTA CLARA CALIFORNIA

ENGINEERING DEPARTMENT
CITY HALL
1500 WARBURTON AVE.
SANTA CLARA, CA 95050
(408) 615-3000
FAX (408) 985-7936

September 19, 2002

Michael J. Fox
Consultant
Silicon Valley Power
1500 Warburton Ave.
Santa Clara, CA 95050

Re: Pico Power Project
City of Santa Clara Sanitary Sewer "Will Take" Letter

Dear Mr. Fox:

This letter is in response to your letter dated August 6, 2002 (Rev. 09/05/02), regarding your request for a "Will Take" letter from the City, stating the sanitary sewer capacity to accept the Project's maximum sanitary sewer discharge of 555,000 gallons per day.

Per our discussions, the sanitary sewer line, serving the Project, is planned to connect to the City's 27" sanitary sewer main at manhole 35 or 36 of Block Book Page 66 (Central Expressway and Lafayette Street).

The Sanitary Sewer flow downstream (manhole 18 of Block Book Page 67) of the proposed connection was continuously monitored for one week to determine the available capacity in the existing 27" sanitary sewer main. The added sanitary sewer discharge from the Project will bring the flow in the existing 27" sanitary sewer main to its functional limit. That is, additional flows, over the proposed Project flow, can only be accommodated if the existing sanitary sewer system is supplemented (i.e., up-sizing the main or constructing a new parallel sanitary sewer main).

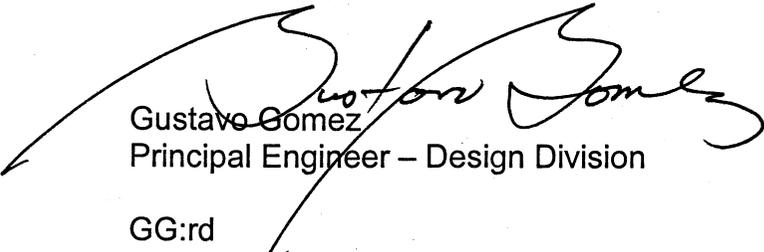
The proposed Project maximum sanitary sewer discharge of 555,000 gallons per day can be accommodated in the existing 27" sanitary sewer system at the proposed connection with the following condition:

In the future, if the sanitary sewer main, serving the Project, is required to be supplemented (i.e., up-sizing the main or constructing a new parallel sanitary sewer main) as determined by the City, each property served by said sanitary sewer system will be required to pay for the cost of supplementing the sanitary sewer system on a prorata share, based on site

acreage (for example, 2,450 gallons per acre per day for the Pico Power Project) as specified in the City's Design Criteria (1989).

The environmental impacts of any such future supplemental sanitary sewer system would be evaluated at the time the supplemental sanitary sewer system is proposed.

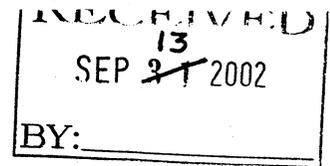
If you have any questions regarding this matter or need more information, please call me at (408)615-3011.



Gustavo Gomez
Principal Engineer – Design Division

GG:rd

Cc: Rajeev Batra, City Engineer
Robin Saunders, Director of Water and Sewer Department



Environmental Services Department

DIRECTOR'S OFFICE

September 11, 2002

Michael J. Fox
Consultant
Silicon Valley Power
1500 Warburton Ave
Santa Clara, CA 95050

RE: Recycled Water Will-Serve,
Proposed Pico Power Plant at 850 Duane Road, Santa Clara CA.

Dear Mr. Fox:

South Bay Water Recycling (SBWR), administered by the City of San Jose and the City of Santa Clara Water Department as the recycled water wholesaler and retailer respectively are willing and able to provide recycled water to the proposed Pico Power Plant to be located at 850 Duane Road in Santa Clara. Based on the service requirements stated in your letter of July 12, 2002, the Pico Power Plant will require a recycled water service capable of providing an average of 1.6 million gallons per day (MGD) for cooling with a peak demand of 1.8 MGD. This volume is in addition to, and separate from, domestic and fire protection demands, which will be served with potable water.

These estimated service requirements would be satisfied from the SBWR 24" recycled water main located adjacent to your project in Pico Way. The 24" pipeline currently has adequate hydraulic capacity to serve your facility without any adverse affect on the system. However, a recycled water service connection will have to be constructed by the applicant to establish service from the recycled water main to the Pico Power Plant.

The recycled water provided by SBWR meets current regulations of the California Department of Health Services ("Title 22") for unrestricted use. This designation allows for the use of recycled water for irrigation and industrial use within specific guidelines such as the use of drift eliminators on cooling towers utilizing recycled water and the addition of disinfecting agents such as chlorine or bromine to re-circulated recycled water. The final permit for the use of recycled water at this facility will be contingent on the review and approval of an engineer's report by the California Department of Health Services. The applicant must provide or prepare this report, and the use must be approved, prior to having the recycled water service activated to the facility.

We anticipate that the facility will require sufficient potable water service to provide an equivalent flow of water in the event there is an interruption in delivery of water from the recycled system. The



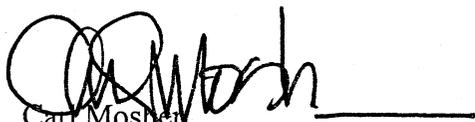
recycled water system (pumps and piping) are inherently not as reliable as the City's potable water system, outages or supply curtailment as long as 48 hours are anticipated in the event of a mainline breakage.

Provision of potable and recycled water services are contingent upon the completion of the necessary arrangements in accordance with SBWR, City of Santa Clara and Department of Health Services (DOHS) rules and regulations regarding the use of recycled water.

In addition, payment must be made of applicable fees, rates and charges. These fees rates and charges may include but are not limited to charges for major facilities described above, sewer capacity fees and delivery charges for the recycled water used at the site. We anticipate that the terms and conditions for the provision of recycled water to your project will be further clarified in a detailed Cost Analysis for Development, which will be prepared by the City of Santa Clara Department of Public Works.

South Bay Water Recycling and the City of Santa Clara look forward to working with and serving the Pico Power Plant recycled water requirements.

Sincerely,



Carl Mosher
Director, Environmental Services Department
City of San Jose

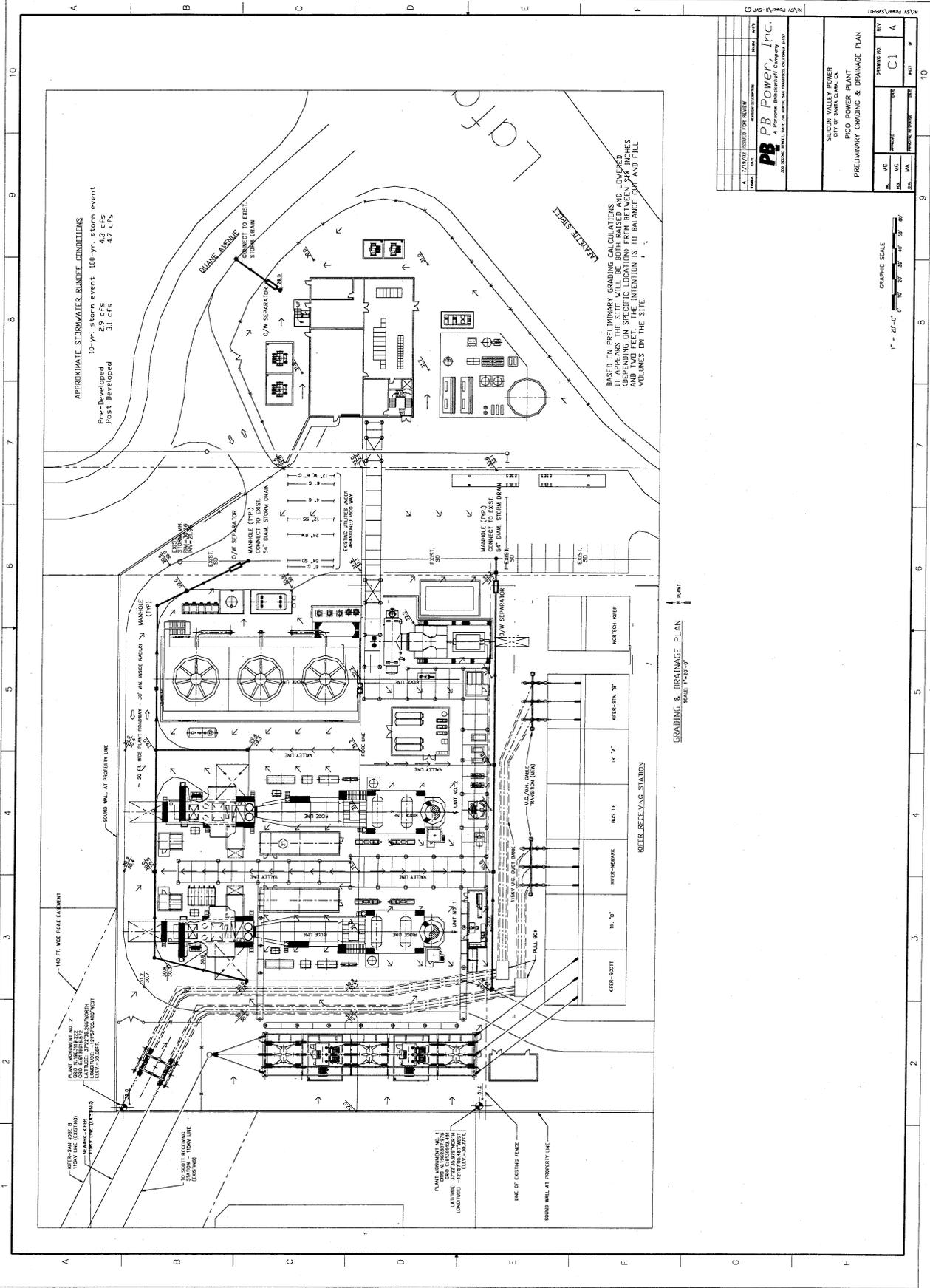


Robin Saunders
Director, Water & Sewer Utilities
City of Santa Clara

Pico Power Project

***Appendix 7-B
Preliminary Grading and Drainage Plan***

October 2002



APPROXIMATE STORMWATER RUNOFF CONDITIONS
 10-yr storm event 100-yr storm event
 Pre-Developed 2.9 cfs 4.3 cfs
 Post-Developed 3.1 cfs 4.7 cfs

BASED ON PRELIMINARY GRADING CALCULATIONS
 IT APPEARS THE SITE WILL BE BOTH RAISED AND LOWERED
 DEPENDING ON SPECIFIC LOCATION FROM BETWEEN SIX INCHES
 TO ONE FOOT. THE CONVENTION IS TO BALANCE CUT AND FILL
 VOLUMES ON THE SITE

GRAPHIC SCALE
 1" = 20'-0"

GRADING & DRAINAGE PLAN
 SCALE: 1"=20'-0"

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Computation Sheet

Made By: MG

Date: 14 Jul 02

Checked By: LG

Date: 16 Jul 02

Subject: SVP Pico Power Project Stormwater runoff

Grading and Drainage

The site grading and drainage will be designed to comply with all applicable federal, state and local regulations. The general site grading will establish a working surface for construction and plant operating areas, provide positive drainage from buildings and structures, and provide adequate ground coverage for subsurface utilities.

Onsite drainage will be accomplished through gravity flow. The surface grading will direct stormwater runoff to the proposed collection system via overland flow at a minimum of 0.5%. The main plant complex area will be graded with moderate slopes (1 percent minimum preferred) for effective drainage. A storm water collection system of underground pipes and inlets rather than open channels is provided due to site space constrictions. Inlets will be constructed of cast-in-place or pre-cast concrete. The underground pipes will be sized to limit flow velocities to a maximum of 8 feet per second (fps) and a minimum, self-scouring velocity of 2 fps.

The buildings and structures will be located with the ground floor elevation a minimum of 6 inches above the finished grade. The preferred slope of the graded areas away from the structures will be one percent.

In accordance with the latest City of Santa Clara Design Criteria, the Site drainage facilities will be designed to convey the 10-year storm event flow. If a storm drain pump station becomes necessary, the drain system would be required to convey the 100-year event flow.

According to generally accepted engineering practice, surface pollution from vehicles and other sources is washed into the drainage system during the first 0.5 inches of rainfall from storms. The project drainage system will include oil-water separators that will receive stormwater runoff from areas that are subject to oil contamination, including parking lots and gravel areas. The separators will be underground vaults with baffles to collect oils and solids. Stormwater is routed through the baffles, allowing oils to rise to the surface and solids to settle to the bottom. The vault(s) will be pumped out each fall prior to the winter season. Oils will be removed using oil-absorbent pillows or other acceptable methods and transported to an approved disposal facility.

It should be noted that hazardous material containment areas (those areas with walls or dams built to contain spillage) will utilize an independent collection and treatment system meant to eventually release treated effluent to the sanitary sewer system of the city. This system is separate from the stormwater collection and treatment described in the prior paragraph.

No drainage improvements are anticipated at the "pistol range" site at the intersection of Comstock and Lafayette Street. The site is entirely improved/paved in its current condition. The installation of additional power plant amenities will neither increase nor decrease the amount of stormwater runoff from the site. Further, the site is presently improved with catch basins and underground pipes which will remain in the post-construction condition.

Pre- and Post-Development Runoff Conditions

The peak flow associated with the 10 and 100 year storm events at the site prior to construction (pre-development) will be compared to the post-development (after construction) conditions. Calculations reveal that the post development runoff will slightly exceed the pre-development runoff conditions.

The runoff conditions prior to development have been determined utilizing the guidelines contained in the latest City of Santa Clara Design Criteria. The existing site drains roughly north/south, with an indistinct ridge splitting

13586A

Computation Sheet

Made By: MG

Date: 14 Jul 02

Checked By: LG

Date: 16 Jul 02

Subject: SVP Pico Power Project Stormwater runoff

Hydraulic Design

The Manning formula shall be used to determine the flow of closed conduits.

$$Q = A \frac{1.486 R^{2/3} S^{1/2}}{n} \text{ cfs}$$

A = cross sectional flow area in ft²

n = for lined channels = .015
 for earth channels = .030
 for closed conduit = .013

R = hydraulic radius in ft

S = slope of gradient in ft/ft

Closed conduits shall be considered flowing full. Velocities shall range from 2 fps min to 10 fps max.

Unlined open channel velocities shall not exceed 3 fps to avoid erosion of the bottom or sides of the ditch. For higher velocities, ditches shall be protected with concrete lining.

Pre-Developed Stormwater Runoff

Use Rational Method

$$Q \text{ (cfs)} = CIA$$

A = Approximate area of construction disturbance = **3.23 acres**

0.94 acres = aggregate roadway/pavement = 29%

2.29 acres = loose, unpacked earth; poorly developed grass = 71%

Compute weighted Runoff Coefficient of C

0.90 for impervious surfaces such as roads/roofs = 29%

0.30 for gravel and open (lawn/earth) areas = 71%

Computation Sheet

Made By: MG

Date: 14 Jul 02

Checked By: LG

Date: 16 Jul 02

Subject: SVP Pico Power Project Stormwater runoff

C=0.47

I = Rainfall Intensity. Directly related to time of concentration. Assume minimum of 10 minutes for water to flow from most remote part of construction disturbance area to off-site.

For 10 minute peak duration of rainfall, **I = 1.92** for the 10-year storm event.

For 10 minute peak duration of rainfall, **I = 2.86** for the 100-year storm event.

Therefore $Q=(C)(I)(A) = (0.47)(1.92)(3.23) = \mathbf{2.91}$ cubic foot per second (cfs) rate of runoff for the 10-year storm event.

$$Q=(C)(I)(A) = (0.47)(2.86)(3.23) = \mathbf{4.34}$$
 cfs for the 100-year event.

Post-Developed Stormwater Runoff

Use Rational Method

$$Q \text{ (cfs)} = CIA$$

A = Approximate area of construction disturbance = 3.23 acres **minus** 12,971 square feet (0.30 acres) of area in the post-developed scenario that capture stormwater in containment dikes to be treated and directed to the oil-water separator(s).

Therefore, A = **2.93 acres**

1.25 acres = impervious surface/pavement = 43%

1.68 acres = gravel areas = 57%

Compute weighted Runoff Coefficient of C

0.90 for impervious surfaces such as roads/roofs = 43%

0.30 for gravel and open (lawn/earth) areas = 57%

C=0.56

I = Rainfall Intensity. Directly related to time of concentration. Assume 10 minutes (shorter under development conditions) for water to flow to outlet point.

For 10 minute peak duration of rainfall, **I = 1.92** for the 10-year storm event.

Computation Sheet

Made By: MG

Date: 14 Jul 02

Checked By: LG

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Subject: SVP Pico Power Project Stormwater runoff

For 10 minute peak duration of rainfall, **I = 2.86** for the 100-year storm event.

Therefore $Q=(C)(I)(A) = (0.56)(1.92)(2.93) = 3.15$ **cubic foot per second (cfs)** rate of runoff for the 10-year storm event.

$Q=(C)(I)(A) = (0.56)(2.86)(2.93) = 4.69$ **cfs** for the 100-year event.

Comparing the pre-developed to post-developed runoff conditions.

	<i>10-yr. storm event</i>	<i>100-yr. storm event</i>
Pre-Developed	2.91 cfs	4.34 cfs
Post Developed	3.15 cfs	4.69 cfs

We would respectfully suggest that this is a negligible increase in the peak rate of stormwater runoff from the site for the major 10 and 100 year storm events.

PB Power

Project

Page 6 of 5

13586A

Computation Sheet

Made By: MG

Date: 14 Jul 02

Checked By: LG

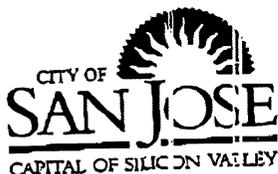
Date: 16 Jul 02

Subject: SVP Pico Power Project Stormwater runoff

Pico Power Project

***Appendix 7-C
Letter From the City of San Jose
Documenting Recycled Water Reliability***

October 2002



CITY OF SAN JOSE, CALIFORNIA
ENVIRONMENTAL SERVICES DEPARTMENT

Watershed Protection Division
4245 Zanker Road • San Jose, California 95134
Telephone: (408) 945-3000 • Fax: (408) 934-0476

September 27, 2002

Ms. Suzanne Burnell, P.G.
Foster Wheeler Environmental Corporation
North Creek Place 1
12100 NE 195th Street
Suite 200
Bothell, WA 98011

Dear Ms. Burnell,

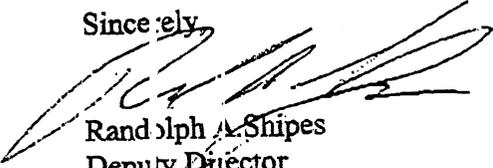
The City of San Jose operates the San Jose/Santa Clara Water Pollution Control Plant under a joint powers agreement with the City of Santa Clara that includes the participation of a number of communities in the Silicon Valley area of northern California. As operating agency, the City also supplies nonpotable water on a wholesale basis to water retailers in the cities of San Jose, Milpitas and Santa Clara through the South Bay Water Recycling system.

The South Bay Water Recycling (SBWR) system has been in operation since 1998 and currently provides about 10 million gallons per day (mgd) during the dry weather season to more than 360 customers. Although the branched distribution system does not provide the same level of reliability as a looped system, most customers have never experienced an unplanned interruption of service due to line breaks. However, on at least two instances within the last three years the main Transmission Pumping Station (TPS) was taken off line as the result of scheduled maintenance at the treatment plant or temporary unscheduled disruption of the treatment process.

In short, although outages are infrequent, for those customers that require uninterrupted service on a 24-hour per day, 7-day per week basis, we recommend a backup water supply to increase operational reliability.

Please contact me at (408) 945-5192 if you need additional information.

Sincerely,



Randolph A. Shipes
Deputy Director

Cc: Fobin Saunders (City of Santa Clara)
Doug Davy (Foster Wheeler, Sacramento)