SAN FRANCISCO PUBLIC UTILITIES COMMISSION
PLANNING BUREAU
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June 1, 2005

City of Santa Clara
Robin Saunders
1500 Warburton Avenue
Santa Clara, CA 95050

Dear Ms. Saunders:

On May 27, 2005, the San Francisco Public Utilities Commission (SFPUC) sent you a letter with information pertaining to the SFPUC's water supply reliability to assist you with the development of your Urban Water Management Plan.

Upon review of the 2005 wholesale purchase projections used in the analysis, it was determined that there was a miscommunication on the figures used for the 2005 water purchase projections. The SFPUC used the average purchase estimate rather than the FY 03-04 purchase estimate shown in BAWSCA's *Attachment A-3 Sample Calculation.* Enclosed is the revised projection of FY 03-04 and is reflected in Table 1.

We apologize for any inconvenience this may have caused. Please do not hesitate to contact me if you have any questions or comments. I can be reached at (415) 554-0792.

Sincerely,

Paula Kehoe/TK
Manager of Water Resources Planning

cc: Nicole Sandkulla

Table 1

Projected Santa Clara, City of Deliveries for Three Multiple Dry Years Given Year 2005 Purchase Request

	Purchase Request Year 2005 mgd	One Critical Dry Year	Current Deliveries during Multiple Dry Years in mgd		
			Year 1	Year 2	Year 3
System-Wide Shortage in Percent	0%	10%	10%	20%	20%
BAWSCA Allocation mgd	177.9	157.4	157.4	136.8	136.8
Santa Clara, City of	3.59	2.69	2.69	2.34	2.34

Table 2

UWMP Studies: Water Supply Reliability

Water Supply Options for Years 2010 through 2030

	2010	2015	2020	2025	2030
Crystal Springs Reservoir (22bg)	x	x	x	x	x
Westside Basin Groundwater afa	4,500	7,000	8,100	8,100	8,100
Calaveras Reservoir Recov. (31.5 bg)		x	x	x	x
Districts' Transfer afa	23,200	23,200	29,000	29,000	29,000

Table 3

Allocation	SFPUC Purchase: Santa Clara, City of mgd					SFPUC Purchase: All Wholesale Customers mgd				
Delivery for Year beginning July 1	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
	Projected Delivery in mgd					Projected System-wide Delivery in mgd				
	2010	2015	2020	2025	2030	2010	2015	2020	2025	2030
1920	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1921	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1922	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1923	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1924	4.91	4.91	4.91	4.91	3.43	188.9	191.6	197.5	203.6	185.7
1925	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1926	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1927	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1928	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1929	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1930	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1931	3.09	3.14	3.24	3.34	3.00	167.3	169.7	175.0	180.5	161.9
1932	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1933	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1934	3.09	4.91	4.91	4.91	3.43	167.3	191.6	197.5	203.6	185.7
1935	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1936	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1937	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1938	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1939	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1940	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1941	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1942	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1943	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1944	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1945	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1946	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1947	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1948	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1949	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1950	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1951	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1952	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1953	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1954	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1955	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1956	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1957	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1958	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1959	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1960	4.91	4.91	4.91	4.91	3.43	188.9	191.6	197.5	203.6	185.7
1961	3.09	3.14	3.24	2.91	3.00	167.3	169.7	175.0	157.4	161.9
1962	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1963	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1964	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1965	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1966	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1967	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1968	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1969	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1970	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1971	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1972	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1973	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1974	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1975	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1976	4.91	4.91	4.91	4.91	3.43	188.9	191.6	197.5	203.6	185.7
1977	2.69	3.14	3.24	2.91	3.00	145.6	169.7	175.0	157.4	161.9
1978	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1979	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1980	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1981	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1982	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1983	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1984	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1985	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1986	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1987	4.91	4.91	4.91	4.91	3.43	188.9	191.6	197.5	203.6	185.7
1988	3.09	3.14	3.24	3.34	3.00	167.3	169.7	175.0	180.5	161.9
1989	3.09	3.14	3.24	3.34	3.43	167.3	169.7	175.0	180.5	185.7
1990	2.69	3.14	2.82	2.91	3.00	145.6	169.7	152.5	157.4	161.9
1991	2.69	3.14	3.24	2.91	3.00	145.6	169.7	175.0	157.4	161.9
1992	2.69	2.73	2.82	2.91	3.00	145.6	147.8	152.5	157.4	161.9
1993	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1994	4.91	4.91	4.91	4.91	3.43	188.9	191.6	197.5	203.6	185.7
1995	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1996	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1997	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1998	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
1999	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
2000	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
2001	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4
2002	4.91	4.91	4.91	4.91	4.91	188.9	191.6	197.5	203.6	209.4

Attachment A-3 Sample Calculation

23.6% Average Suburban Reduction from FY 03-04 Purchases

(Units in million gallons per day unless otherwise noted)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	Allocation Basis				Unadjusted Allocations					Allocations Adj. for Santa Clara & San José				
Suburban Purchasers	First Fixed Component	Second Fixed Component	Variable Component	Average	Allocation Factors	Initial Shortage Allocation	FY 03-04 Purchases	Initial Purchase Cutback		Subtotal Allocation Factors	Adjusted Shortage Allocation	Adjusted Purchase Cutback		Final Individual Share
ACWD	13.76	11.95	12.25	12.65	7.10%	9.65	12.31	-2.66	-21.63%	7.47%	9.76	-2.55	-20.72%	7.18%
Belmont	3.89	3.26	3.44	3.53	1.98%	2.69	3.52	-0.82	-23.43%	2.08%	2.72	-0.79	-22.55%	2.00%
Brisbane	0.46	0.30	0.39	0.38	0.22%	0.29	0.39	-0.10	-25.03%	0.23%	0.30	-0.09	-24.16%	0.22%
Burlingame	5.23	4.68	4.72	4.88	2.74%	3.72	4.77	-1.05	-22.07%	2.88%	3.76	-1.01	-21.17%	2.77%
Coastside	2.18	1.35	1.78	1.77	0.99%	1.35	1.89	-0.54	-28.70%	1.04%	1.36	-0.53	-27.87%	1.00%
Cordilleras	0.01	0.01	0.00	0.01	0.00%	0.00	0.01	0.00	-24.99%	0.00%	0.00	0.00	-24.12%	0.00%
CWS Total	35.50	33.51	36.21	35.07	19.68%	26.74	38.25	-11.51	-30.08%	20.70%	27.05	-11.20	-29.27%	19.90%
Daly City	4.49	4.49	4.72	4.57	2.56%	3.48	4.94	-1.46	-29.53%	2.70%	3.52	-1.42	-28.71%	2.59%
East Palo Alto	2.18	2.10	2.09	2.12	1.19%	1.62	2.19	-0.58	-26.22%	1.25%	1.64	-0.56	-25.37%	1.20%
Estero	7.23	5.45	5.49	6.06	3.40%	4.62	5.58	-0.96	-17.17%	3.58%	4.67	-0.90	-16.21%	3.44%
Guadalupe	0.52	0.27	0.33	0.38	0.21%	0.29	0.33	-0.04	-13.01%	0.22%	0.29	-0.04	-12.00%	0.21%
Hayward	24.00	17.56	18.30	19.95	11.19%	15.22	19.59	-4.38	-22.35%	11.78%	15.39	-4.20	-21.45%	11.32%
Hillsborough	4.09	3.60	3.78	3.82	2.14%	2.92	3.91	-1.00	-25.53%	2.26%	2.95	-0.97	-24.67%	2.17%
Los Trancos*														0.00%
Menlo Park	4.24	3.43	3.58	3.75	2.10%	2.86	3.84	-0.98	-25.56%	2.21%	2.89	-0.95	-24.69%	2.13%
Millbrae	3.15	2.64	2.39	2.73	1.53%	2.08	2.58	-0.50	-19.25%	1.61%	2.11	-0.47	-18.31%	1.55%
Milpitas	9.23	6.80	6.94	7.66	4.30%	5.84	7.10	-1.27	-17.83%	4.52%	5.91	-1.20	-16.87%	4.34%
Mountain View	13.46	10.36	10.91	11.58	6.50%	8.83	10.96	-2.13	-19.42%	6.83%	8.93	-2.03	-18.49%	6.57%
North Coast	3.84	3.29	3.48	3.54	1.98%	2.70	3.59	-0.89	-24.81%	2.09%	2.73	-0.86	-23.94%	2.01%
Palo Alto	17.07	12.96	13.06	14.37	8.06%	10.95	13.33	-2.38	-17.85%	8.48%	11.08	-2.25	-16.90%	8.15%
Purissima Hills	1.85	1.85	2.19	1.96	1.10%	1.49	2.31	-0.81	-35.22%	1.16%	1.51	-0.79	-34.47%	1.11%
Redwood City	10.93	10.92	11.73	11.19	6.28%	8.53	12.16	-3.63	-29.82%	6.61%	8.63	-3.53	-29.00%	6.35%
San Bruno	3.25	2.01	2.43	2.56	1.44%	1.95	2.41	-0.46	-18.97%	1.51%	1.97	-0.43	-18.03%	1.45%
Skyline	0.18	0.16	0.17	0.17	0.10%	0.13	0.18	-0.05	-28.57%	0.10%	0.13	-0.05	-27.74%	0.10%
Stanford	3.03	2.58	2.43	2.68	1.50%	2.04	2.51	-0.47	-18.78%	1.58%	2.07	-0.45	-17.83%	1.52%
Sunnyvale	12.58	10.73	9.56	10.95	6.14%	8.35	9.84	-1.49	-15.15%	6.46%	8.45	-1.39	-14.17%	6.22%
Westborough	1.32	0.98	1.01	1.10	0.62%	0.84	0.97	-0.13	-12.98%	0.65%	0.85	-0.12	-11.97%	0.63%
Subtotal	187.67	157.23	163.38	169.43		129.20	169.48	-40.28	-23.77%	100.00%	130.70	-38.78	-22.88%	
San José	2.68	4.10	4.65	3.81	2.14%	2.91	4.84	-1.94	-40.03%		2.91	-1.94	-40.03%	2.14%
Santa Clara	6.57	4.72	3.77	5.02	2.82%	3.83	3.59	0.23	6.51%		2.33	-1.27	-35.22%	1.71%
Total	196.92	166.06	171.80	178.26	100.00%	135.93	177.92	-41.99	-23.60%		135.93	-41.99	-23.60%	100.00%

Derivation of the Santa Clara/San José adjustment:

1.	Largest permanent customer cutback:	-35.22%
2a.	Adjusted Santa Clara shortage allocation:	2.33 (Applying largest permanent customer cutback)
2b.	Santa Clara adjustment:	-1.50 (Difference between initial and adjusted alloc.)
3a.	Adjusted San José shortage allocation:	3.14 (Applying largest permanent customer cutback)
3b.	San José adjustment:	0.00 (Difference between initial and adjusted alloc.)
4.	Total Adjustment:	-1.50 (2b + 3b)

*All values associated with Los Trancos County Water District have been included within Cal Water value

Assumptions and Column Notes

Avg. Shortage for the Suburban Purchasers = 23.6%
Water available to the Suburban Purchasers = 135.93 mgd

Column notes:

Allocation Basis. The Allocation Basis is used for calculating Allocation Factors and is the average of the following three components:

1. First Fixed Component: The greater of either the Supply Assurance values or the three-year average of SFPUC purchases for FYs 1996-97, 1997-98, and 1998-99, with certain exceptions.
   a. Daly City's and Purissima Hill's values are based on their three-year averages, which is greater than their Supply Assurance values.
   b. Hayward's and Estero's values are based on their 2010-11 projected purchases, as reported in the BAWUA 1997-98 Annual Survey.
   c. San José's and Santa Clara's values are based on the water supply caps in their individual water supply contracts with the SFPUC.
2. Second Fixed Component: The average of SFPUC purchases for FYs 1996-97, 1997-98, and 1998-99.
3. Variable Component: The rolling three-year average, updated annually, beginning with FYs 1996-97, 1997-98, and 1998-99.
4. Average: The average of columns 1, 2, and 3.

Unadjusted Allocations. The initial shortage allocations in column 6 are adjusted for Santa Clara and San José in columns 10 through 13.

5. Allocation Factors: The ratio of each Suburban Purchaser's column 4 average to the column 4 total.
6. Initial Shortage Allocation: The product of each Suburban Purchaser's column 5 Allocation Factor times the column 6 total, which represents the assumed available water supply.
7. FY 2003-04 Purchases: The most recent year's purchases to which the Shortage Allocation can be compared to determine the effective cutback.
8. Purchase Cutback: Column 6 minus column 7, in mgd.
9. Purchase Cutback: The ratio of column 8 to column 7, in percent.

Allocations Adjusted for Santa Clara and San José. This adjustment is made so that Santa Clara's and San José's cutbacks are at least as great as the highest cutback by the permanent customers. In this example, there is no adjustment required for San José because the formula results in an unadjusted cutback that is already greater than the highest cutback by a permanent customer.

10. Subtotal Allocation Factors: The ratio of each permanent Suburban Purchaser's column 4 average to the column 4 subtotal.
11. Adjusted Shortage Allocation: The product of each Suburban Purchaser's column 10 Subtotal Allocation Factor times the Column 11 subtotal.
    a. The column 11 subtotal is the sum of the column 6 subtotal plus the Santa Clara adjustment.
    b. The Santa Clara adjustment is the difference between its column 6 Initial Shortage Allocation and its Adjusted Shortage Allocation.
    c. Santa Clara's Adjusted Shortage Allocation is the product of its column 4 average and the largest Purchase Cutback received by the permanent Suburban Purchasers.
12. Adjusted Purchase Cutback: Column 11 minus column 7, in mgd.
13. Adjusted Purchase Cutback: The ratio of column 12 to column 7, in percent.