

DATE: March 13, 2017

AGENDA ITEM # 5

**TO**: Environmental Commission

**FROM**: J. Logan, Staff Liaison

**SUBJECT**: Receive report on water conservation and drought measures

#### **BACKGROUND**

The Environmental Commission determined methods for achieving the State's goals for reductions in water consumption. To this effort, the Commission continues to: 1) review and report on water conservation efforts within Santa Clara County; 2) explore model water conservation ordinances and enforcement procedures; 3) gather water consumption data from the City of Los Altos water retailer, Cal Water; 4) formulate water consumption data to display annual and monthly usage in the Climate Action Plan Dashboard; 5) provide education and outreach efforts to residents and commercial establishments in Los Altos; 6) utilize resources from the Santa Clara County Valley Water District; and 7) analyze the provisions in the current City of Los Altos Water Conservation Resolution to determine the effectiveness of water reduction efforts.

At the June 9, 2015 Council meeting, Council adopted Resolution No. 2015-15 for Water Conservation Measures. At the June 23, 2015 Council meeting, Council approved the City of Los Altos agency municipal operations water conservation efforts and approved Level 3 water reduction measures and prioritization.

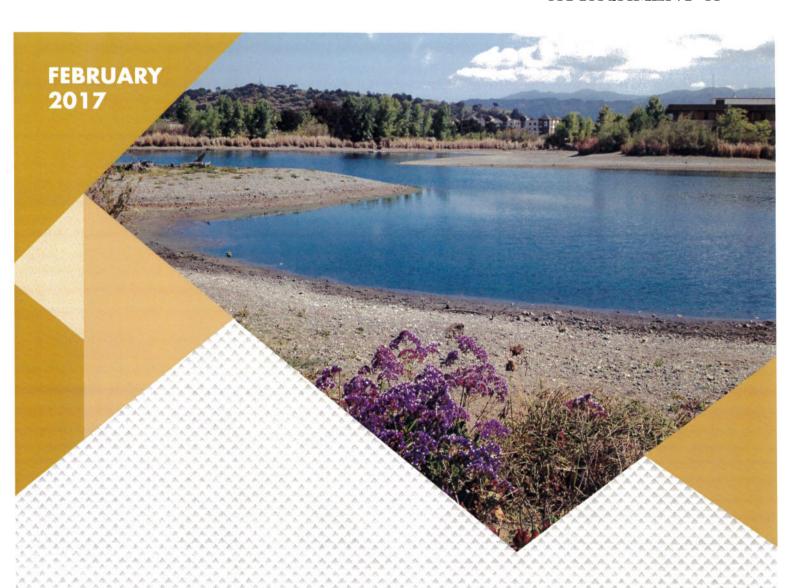
Effective June 1, 2015, California Water Service (CWD), the Los Altos local water retailer, commenced implementation of Rule 14.1 reduction mandates and monthly water budget allocations for individual water users along with enforcement measures for meeting a 32% reduction in water usage for residents, businesses and for City municipal operations.

#### **DISCUSSION**

The issue of Water Conservation and drought measures will continue to be reviewed. Reports and updates on status of the drought and water conservation efforts will be presented and, in addition, the Commission will monitor the status of water data metrics provided by CWS for use in the CAP Dashboard.

#### Attachment:

A. Santa Clara Valley Water District Monthly Drought Status Report – February 2017



# Drought 2016 Monthly Status Report

Santa Clara Valley Water District

## Section 2. Retailers' Water Use and Savings

This section contains detailed water use data from 2013 and 2017, summarizes cumulative water use saving percent, and illustrates cumulative and monthly trends in water use and savings at the water retailer level. [Please see Section 5, Data Collection Methodology for more information]

TABLE 5: 2017 RETAILER CONSERVATION ACTIONS AND SAVINGS SUMMARY

Water Retailer	Call for Savings	Cumulative Water Use (AF)	Monthly Savings January 2017	Cumulative Savings Jan to January 201	
San Jose Water Co.	20%	6,477	14%	14%	
Santa Clara (City)	20%	1,067	18%	18%	
Sunnyvale	15%	1,049	6%	6%	
San Jose Municipal	20%	951	11%	11%	
California Water Service	20%	483	33%	33%	
Palo Alto	10%	495	29%	29%	
Mountain View	10%	516	20%	20%	
Great Oaks	20%	558	15%	15%	
Milpitas	20%	591	12%	12%	
Gilroy	20%	408	5%	5%	
Morgan Hill	20%	314	3%	3%	
Purissima Hills Water	10%	48	53%	53%	
Stanford	10%	N/A¹	N/A¹	N/A <sup>1</sup>	
Total		12,956	15%	15%	

Values may not add up due to rounding

<sup>&</sup>lt;sup>1</sup> Current month data not available as of 02/19/2017

TABLE 6: 2017 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

<b>Cumulative Water</b>	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to
Retailer Savings	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
San Jose Water Company	14%											
Santa Clara, city	18%											
Sunnyvale	6%											
San Jose Municipal Water	11%											
California Water Service	33%											
Palo Alto	29%											
Mountain View	20%											
Great Oaks	15%											
Milpitas	12%											
Gilroy	5%											
Morgan Hill	3%											
Purissima Hills Water	53%											
Stanford	1											
Combined Cumulative Savings	15%			0				10 5				
Month to Month Water Retailer Savings	Jan to Jan	Feb to Feb	Mar to Mar	April to April	May to May	June to June	July to July	Aug to Aug	Sept to Sept	Oct to Oct	Nov to Nov	Dec to Dec
San Jose Water Company	14%					-						
Santa Clara (City of)	18%											
Sunnyvale	6%											
San Jose Municipal Water	11%											
California Water Service	33%											
Palo Alto	29%											
Mountain View	20%											
Great Oaks	15%											
Milpitas	12%											
Gilroy	5%											
Morgan Hill	3%											
Purissima Hills Water	53%											
Stanford	1											
Combined Month to Month 2015	15%											

<sup>1.</sup> Stanford data not available due to late month meter read by SFPUC

TABLE 7: 2016 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

<b>Cumulative Water</b>	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to
Retailer Savings	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	<u>Dec</u>
San Jose Water Company	16%	17%	22%	27%	29%	29%	29%	29%	28%	29%	29%	29%
Santa Clara, city	19%	16%	18%	20%	23%	23%	22%	22%	20%	21%	21%	21%
Sunnyvale	14%	18%	21%	23%	27%	26%	26%	25%	23%	23%	24%	24%
San Jose Municipal Water	11%	16%	22%	26%	29%	28%	28%	28%	27%	27%	27%	27%
California Water Service	35%	33%	37%	39%	38%	35%	33%	31%	30%	31%	32%	32%
Palo Alto	24%	29%	27%	30%	31%	29%	27%	28%	26%	27%	27%	27%
Mountain View	30%	31%	28%	31%	34%	33%	32%	31%	29%	29%	29%	29%
Great Oaks	19%	20%	25%	29%	32%	30%	31%	30%	29%	29%	30%	29%
Milpitas	17%	18%	16%	18%	22%	21%	21%	21%	19%	20%	20%	19%
Gilroy	8%	11%	20%	25%	26%	27%	26%	26%	25%	25%	25%	25%
Morgan Hill	5%	13%	24%	31%	34%	31%	30%	28%	27%	28%	29%	30%
Purissima Hills Water	59%	45%	49%	40%	39%	32%	29%	29%	26%	29%	30%	31%
Stanford	34%	39%	36%	39%	38%	37%	35%	35%	34%	34%	35%	35%
<b>Combined Cumulative</b>	18%	19%	23%	27%	29%	29%	28%	28%	27%	27%	28%	28%
Savings	10%	1570	25%	2170	25%	2570	20%	20%	2170	2170	20%	28%
Month to Month	Jan to	Feb to	Mar	April	May	June	July to	Aug to	Sept	Oct to	Nov to	Dec
Water Retailer Savings	Jan	<u>Feb</u>	<u>to</u>	to	to	to	July	Aug	to	Oct	Nov	to
	1.00/	1.00/	Mar	April	May	June	2004	200/	Sept	2204	2.40/	Dec
San Jose Water Company	16%	18%	31%	36%	36%	28%	28%	28%	26%	33%	34%	31%
Santa Clara (City of)	19%	12%	22%	26%	29%	23%	17%	25%	5%	27%	23%	14%
Sunnyvale	14%	22%	25%	28%	36%	22%	26%	20%	12%	25%	30%	19%
San Jose Municipal Water	11%	22%	31%	33%	38%	25%	29%	25%	19%	30%	32%	26%
California Water Service	35%	31%	44%	42%	37%	26%	24%	23%	24%	37%	41%	42%
Palo Alto	24%	34%	23%	37%	35%	19%	14%	34%	11%	35%	30%	24%
Mountain View	30%	32%	23%	35%	42%	27%	28%	27%	10%	34%	32%	19%
Great Oaks	19%	21%	33%	38%	37%	26%	31%	26%	26%	29%	33%	25%
Milpitas	17%	20%	12%	24%	31%	18%	22%	21%	5%	23%	21%	12%
Gilroy	8%	13%	34%	33%	31%	28%	23%	23%	21%	27%	27%	21%
Morgan Hill	5%	19%	38%	43%	41%	21%	27%	19%	22%	34%	43%	35%
Purissima Hills Water	59%	26%	54%	22%	36%	11%	22%	25%	15%	45%	53%	47%
Stanford	34%	43%	31%	44%	38%	30%	25%	35%	29%	36%	47%	25%
Combined Month to Month 2015	18%	21%	29%	35%	36%	26%	26%	26%	21%	31%	32%	27%

TABLE 8: 2015 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

Cumulative Water	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	Jan to	<u>Jan to</u>	Jan to	Jan to	Jan to
Retailer Savings	<u>Jan</u>	<u>Feb</u>	Mar	April	May	June	July	Aug	<u>Sept</u>	Oct	Nov	Dec
San Jose Water Company	-3%	1%	3%	10%	18%	22%	25%	27%	27%	27%	28%	28%
Santa Clara, city	2%	5%	4%	6%	11%	15%	16%	19%	18%	18%	19%	18%
Sunnyvale	-6%	7%	6%	12%	20%	23%	26%	27%	27%	26%	27%	26%
San Jose Municipal Water	-8%	2%	4%	11%	19%	22%	25%	26%	26%	26%	26%	26%
California Water Service	8%	11%	10%	15%	23%	27%	29%	31%	31%	32%	32%	33%
Palo Alto	10%	15%	12%	16%	25%	26%	27%	29%	29%	29%	29%	29%
Mountain View	0%	13%	10%	15%	22%	24%	25%	28%	28%	28%	28%	28%
Great Oaks	0%	5%	7%	13%	20%	24%	26%	28%	28%	29%	29%	29%
Milpitas	1%	6%	4%	8%	14%	16%	18%	20%	19%	19%	19%	18%
Gilroy	-5%	0%	5%	12%	18%	22%	25%	26%	26%	26%	27%	26%
Morgan Hill	-8%	-2%	6%	19%	24%	26%	30%	31%	31%	32%	33%	33%
Purissima Hills Water	-4%	14%	7%	21%	25%	29%	31%	31%	29%	27%	28%	29%
Stanford	-3%	6%	7%	13%	22%	24%	24%	26%	25%	26%	28%	28%
Combined Cumulative Savings	-2%	4%	5%	11%	18%	22%	25%	26%	27%	27%	27%	27%
Month to Month Water Retailer Savings	Jan to Jan	Feb to Feb	Mar to Mar	April to April	May to May	June to June	July to July	Aug to Aug	Sept to Sept	Oct to Oct	Nov to Nov	Dec to Dec
San Jose Water Company	-3%	5%	7%	25%	36%	35%	38%	36%	31%	28%	33%	30%
Santa Clara (City of)	2%	7%	3%	11%	26%	29%	20%	33%	11%	17%	30%	16%
Sunnyvale	-6%	18%	4%	27%	38%	36%	37%	36%	25%	21%	29%	20%
San Jose Municipal Water	-8%	11%	7%	24%	39%	33%	35%	34%	25%	24%	30%	21%
California Water Service	8%	15%	8%	26%	40%	40%	39%	37%	34%	36%	42%	44%
Palo Alto	10%	19%	6%	25%	46%	31%	31%	38%	28%	32%	36%	26%
Mountain View	0%	24%	3%	27%	38%	33%	31%	41%	25%	27%	37%	19%
Great Oaks	0%	10%	10%	25%	38%	37%	36%	35%	33%	30%	34%	27%
Milpitas	1%	11%	-1%	17%	31%	24%	25%	32%	13%	16%	23%	10%
Gilroy	-5%	5%	13%	24%	34%	33%	35%	32%	28%	27%	30%	24%
Morgan Hill	-8%	3%	17%	39%	35%	35%	42%	34%	36%	35%	46%	38%
Purissima Hills Water	-4%	25%	-3%	40%	37%	40%	41%	27%	19%	8%	37%	47%
Stanford	-3%	13%	8%	29%	44%	35%	19%	42%	18%	37%	43%	37%
Starriora	-370	1370	0 /0	23/0								

TABLE 9: 2014 RETAILER CUMULATIVE SAVINGS SUMMARY (Savings calculated from February 2014 to December 2014)

Cumulative Water	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>	<u>Feb</u>
Retailer Savings	to	to	<u>to</u>	to	to	to	<u>to</u>	to	<u>to</u>	<u>to</u>	to
Ketaner Javings	Feb	Mar	<u>April</u>	May	June	July	Aug	Sept	Oct	Nov	<u>Dec</u>
San Jose Water Company	3%	6%	10%	10%	9%	9%	10%	11%	11%	12%	13%
Santa Clara, city	7%	8%	9%	7%	8%	8%	8%	8%	8%	9%	10%
Sunnyvale	16%	15%	17%	15%	14%	14%	14%	13%	13%	13%	14%
San Jose Municipal Water	15%	16%	18%	14%	12%	12%	12%	12%	12%	12%	13%
California Water Service	15%	18%	19%	15%	13%	13%	13%	13%	14%	14%	16%
Palo Alto	32%	25%	16%	17%	16%	13%	15%	15%	15%	16%	16%
Mountain View	24%	18%	18%	17%	14%	14%	14%	14%	14%	15%	16%
Great Oaks	7%	11%	16%	15%	13%	14%	14%	15%	15%	16%	16%
Milpitas	11%	11%	11%	11%	10%	10%	11%	11%	11%	11%	11%
Gilroy	2%	11%	17%	14%	13%	12%	12%	13%	13%	14%	14%
Morgan Hill	-7%	9%	15%	16%	16%	16%	15%	15%	16%	18%	19%
Purissima Hills Water	45%	34%	28%	14%	14%	12%	14%	14%	14%	16%	16%
Stanford	24%	21%	15%	10%	10%	7%	8%	8%	6%	8%	7%
Combined Cumulative Savings	9%	10%	13%	12%	11%	11%	11%	12%	12%	13%	13%
Month to Month	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Water Retailer Savings	to Feb	<u>to</u> Mar	<u>to</u> Apr	<u>to</u> May	<u>to</u> June	<u>to</u> July	to Aug	<u>to</u> Sept	to Oct	to Nov	to Dec
San Jose Water Company	3%	8%	16%	9%	7%	11%	13%	14%	16%	18%	26%
Santa Clara (City of)	7%	9%	9%	3%	12%	6%	12%	8%	8%	12%	24%
Sunnyvale	16%	14%	20%	12%	10%	13%	13%	12%	8%	20%	23%
San Jose Municipal Water	15%	16%	20%	8%	5%	10%	12%	12%	11%	18%	22%
California Water Service	15%	20%	20%	9%	8%	10%	13%	15%	19%	24%	40%
Palo Alto	32%	19%	3%	18%	16%	-1%	26%	14%	11%	33%	16%
Mountain View	5557755600	420/	100/	14%	5%	14%	17%	13%	13%	27%	22%
Widdittaili view	24%	13%	18%	14/0						_	-
Great Oaks	24% 7%	13%	22%	14%	8%	16%	17%	19%	17%	21%	22%
					0.50.00.00		17% 13%	19% 12%	17% 8%	21% 16%	10%
Great Oaks	7%	14%	22%	14%	8%	16%	6.555555.76579.6	7-92000000	100000 100000	967.09555	10%
Great Oaks Milpitas	7% 11%	14% 11%	22% 10%	14% 11%	8% 8%	16% 10% 12%	13% 12%	12%	8%	16%	10% 24%
Great Oaks Milpitas Gilroy	7% 11% 2%	14% 11% 18%	22% 10% 24%	14% 11% 10% 17%	8% 8% 7% 14%	16% 10%	13% 12% 13%	12% 17% 14%	8% 13% 24%	16% 23% 42%	10% 24% 36%
Great Oaks Milpitas Gilroy Morgan Hill	7% 11% 2% -7%	14% 11% 18% 20%	22% 10% 24% 23%	14% 11% 10%	8% 8% 7%	16% 10% 12% 17%	13% 12%	12% 17%	8% 13%	16% 23%	100000000000000000000000000000000000000

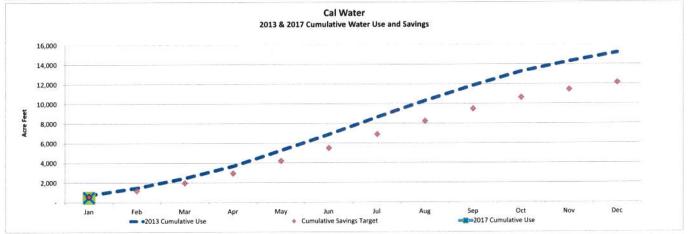
#### **California Water Service Company**

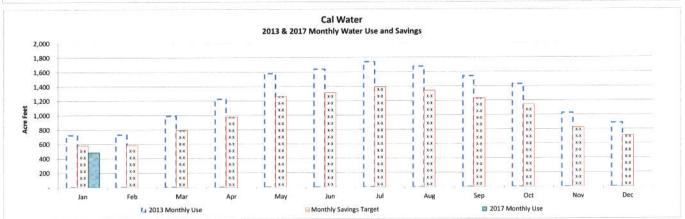
2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface	2013 Monthly Use
Jan	215.0	510.0			725.0
Feb	254.0	477.0		GP ( 35 15	731.0
Mar	446.0	544.0	1000		990.0
Apr	439.0	786.0	LE WILL	Or Solecuts	1,225.0
May	672.0	906.0	Acres (San	10 10 10 10	1,578.0
Jun	709.0	930.0		Toolsen in	1,639.0
Jul	690.0	1,049.0	forest specific	OF STREET	1,739.0
Aug	437.0	1,241.0		AND VALUE	1,678.0
Sep	321.0	1,221.0	THE OFFICE	11 3 10	1,542.0
Oct	363.0	1,068.0		VICTORY.	1,431.0
Nov	183.0	844.0		10.14.2	1,027.0
Dec	262.0	626.0		45 527	888.0
Jan to Current Month	215.0	510.0			725.0
January to December Total	4,991.0	10,202.0			15,193.0

2017	Groundwater	Treated Water	SFPUC	Surface	2017 Monthly Use
Jan	312.0	171.0			483.0
Feb	312.0	1/1.0			105.0
Mar			-		
Apr		2/10/2	in the mile	Williams.	-
May		-	in 17-2 1	100	
Jun	N 60 2 - 10 1	252183-05	2126		
Jul		707 S - 1	A THE A	The same	THE REAL PROPERTY.
Aug	-	1300		010070	
Sep		THE SELECTION			
Oct		50 CO 1- 25	17557		
Nov			0.1300		
Dec		100			1.5
Current Month	312.0	171.0			483.0
%Savings by Source of Supply	-45%	66%	A Suit		33%

Cumulative % Savings Jan to December  (+) = savings 33%
33%
+
-
2
2
7.





Notes

Current monthly water use data is preliminary and subject to change.

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013) Cumulative % Savings shows the target savings for all months combined at that period in time.

Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target. N/A = Not Applicable

'-' Not Available

Santa Clara Valley Water District