



## REPORT TO CITY COUNCIL

Approved by:

John Scarborough, Interim Public Works Director

Council Meeting of: March 6, 2019

Agenda Number: B-3

Arnoldo Rodriguez, City Manager

### SUBJECT:

Water Conservation Report for January 21<sup>st</sup> through February 17<sup>th</sup>

### RECOMMENDATION:

Staff recommends that City Council review the attached report of water conservation activities and progress in reducing residential water consumption. This monthly report is for informational purposes only.

### SUMMARY:

This report addresses four different areas of focus:

1. Water conservation and education
2. Water patrol activity
3. Water meter maintenance activity
4. Information on the overall capacity of the City's water wells, including the amount of production and reserve production capacity

### DISCUSSION:

As illustrated in the following chart, the City's average monthly water conservation rate for the period of January 21<sup>st</sup> through February 17<sup>th</sup> increased from 8.6 percent in 2018 to 25.9 percent this year. Below is the most current water conservation data.

**Monthly Conservation**

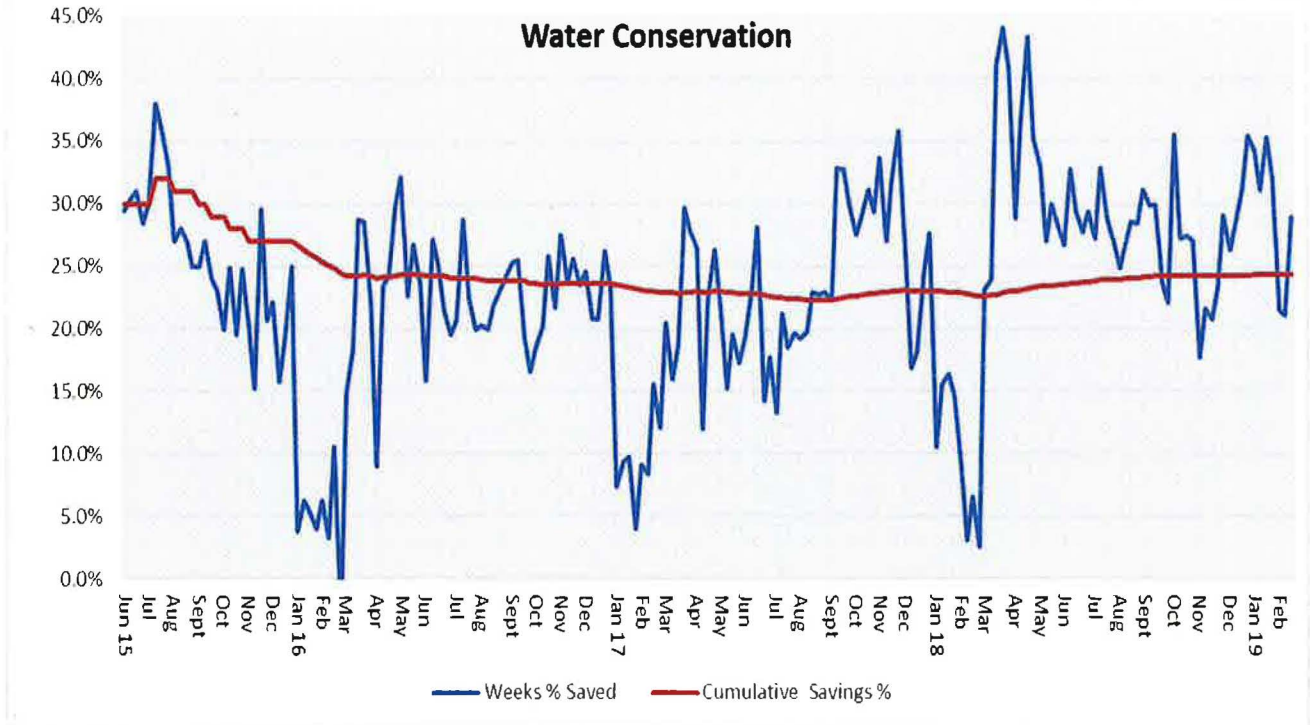
Jan. 21<sup>st</sup>  
Through  
Feb. 17<sup>th</sup>

**25.9%**

**Cumulative Conservation**

June 1<sup>st</sup>, 2015  
Through  
Feb. 17<sup>th</sup>, 2019

**24.4%**



**Water Conservation Outreach:** As part of the Division’s local outreach and education program, water conservation and rebate information presentations were made at the following events:

**Conservation Outreach**

**Facebook and Twitter Postings**  
Water conservation tips and rebate program info

**February Utility Billing Newsletter**  
Watering schedule and articles regarding water conservation helpful hints and rebate program

**Events**  
Virginia Lee Rose Elementary School – 1/31/19 – (175 students)

**Water Conservation Activities:** In an effort to encourage water conservation, staff conducts extensive outreach in an attempt to educate customers. While on occasion an infraction may be issued, the vast majority of contacts are in the form of warnings and notices informing customers of areas that may need to be addressed. The following table provides a summary of such contacts.

<b>Enforcement</b>			
<b>Individual Contacts</b>	<b>115</b>	<b>1<sup>st</sup> offense (\$75)</b>	<b>3</b>
<b>Verbal Warnings</b>	<b>11</b>	<b>2<sup>nd</sup> offense (\$200)</b>	<b>0</b>
<b>Maintenance Notices</b>	<b>24</b>	<b>3<sup>rd</sup> or more offenses (\$500)</b>	<b>0</b>

**Water Meters:** In addition to the monthly reading of the manual read meters and the service interruptions due to delinquency, the water meter staff performed various repairs and/or meter programming at 79 properties. Customer concern investigations were conducted at 15 properties and resulted in the discovery of leaks at 12 properties, notification of need for irrigation adjustments at 1 property and provided requested usage or other information at 2 properties. Courtesy leak notifications were sent to an additional 27 properties.

**System Capacity:** The system has continued to produce adequate flows to meet our peak demand and maintain reserve fire flow capacity. This information is summarized in the Status Report on the following page.

**FINANCIAL IMPACT:**

The expenses for implementing and administering water conservation activities occur within the Water Fund and have no impact the General Fund.

**CONSISTENCY WITH THE VISION MADERA 2025 PLAN:**

The report is consistent with the Madera Vision Plan, specifically Strategy 434: Water Quality and Usage – Ensure continued water supplies to meet the demands of all Maderans through innovative reclamation, conservation and education on water use.

**ALTERNATIVES:**

This is an informational report; no alternatives have been identified.

**ATTACHMENTS:**

1. Status Report January 21, 2019 through February 17, 2019 - Water Production and Reserve Fire Flow Capacity

**STATUS REPORT January 21<sup>st</sup> - FEBRUARY 17TH, 2019  
WATER PRODUCTION AND RESERVE FIRE FLOW CAPABILITY**

**ATTACHMENT#1**

Dates	Day	Peak Temp	MG Pumped	Peak Hour	Lowest Pressure*	Lowest Tank Storage **	Wells Available	Wells On During Peak Hours	Wells in Reserve During Peak Hours	Reserve GPM at Peak	Reserves Meets Fire flow for			
											Residential 1,500 GPM	Commercial 2,500 GPM	Industrial 3,500 GPM	Hospital 4,500 GPM
1/21/2019	Mon	59	3.718	6pm-7pm	46	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/22/2019	Tue	58	3.608	6pm-7pm	45	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/23/2019	Wed	61	3.594	7pm-8pm	45	780,000	16	4	12	12922	Yes	Yes	Yes	Yes
1/24/2019	Thu	63	3.580	6pm-7pm	46	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/25/2019	Fri	66	3.565	2pm-3pm	46	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/26/2019	Sat	66	3.822	12pm-1pm	45	780,000	16	5	11	12450	Yes	Yes	Yes	Yes
1/27/2019	Sun	68	4.068	5pm-6pm	44	780,000	16	6	10	11850	Yes	Yes	Yes	Yes
1/28/2019	Mon	67	3.867	12pm-1pm	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
1/29/2019	Tue	66	4.107	7pm-8pm	45	780,000	16	5	11	13050	Yes	Yes	Yes	Yes
1/30/2019	Wed	69	4.331	6pm-7pm	44	780,000	16	6	10	11850	Yes	Yes	Yes	Yes
1/31/2019	Thu	59	4.120	6pm-7pm	44	780,000	16	6	10	11761	Yes	Yes	Yes	Yes
2/1/2019	Fri	64	4.198	12pm-1pm	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
2/2/2019	Sat	64	4.328	10pm-11pm	45	780,000	16	5	11	12071	Yes	Yes	Yes	Yes
2/3/2019	Sun	65	4.299	4pm-5pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
2/4/2019	Mon	60	4.359	9pm-10pm	45	780,000	16	5	11	12071	Yes	Yes	Yes	Yes
2/5/2019	Tue	54	4.272	6pm-7pm	44	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
2/6/2019	Wed	55	4.168	8pm-9pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
2/7/2019	Thu	58	4.208	7pm-8pm	44	820,000	16	4	12	13871	Yes	Yes	Yes	Yes
2/8/2019	Fri	60	4.385	12pm-1pm	46	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
2/9/2019	Sat	60	4.177	1pm-2pm	45	780,000	16	5	11	13020	Yes	Yes	Yes	Yes
2/10/2019	Sun	53	4.368	12pm-1pm	45	780,000	16	5	11	12071	Yes	Yes	Yes	Yes
2/11/2019	Mon	57	4.588	10am-11am	44	780,000	16	5	11	13050	Yes	Yes	Yes	Yes
2/12/2019	Tue	60	4.331	4pm-5pm	46	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
2/13/2019	Wed	66	4.300	8pm-9pm	45	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
2/14/2019	Thu	71	4.309	3pm-4pm	45	780,000	16	4	12	13841	Yes	Yes	Yes	Yes
2/15/2019	Fri	59	3.974	3pm-4pm	46	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
2/16/2019	Sat	55	4.281	12pm-1pm	45	780,000	16	6	10	11250	Yes	Yes	Yes	Yes
2/17/2019	Sun	54	3.817	5pm-6pm	45	680,000	16	3	13	15441	Yes	Yes	Yes	Yes

\* Goal is to keep system above 30 psi., below 20 cause regulatory issue.

\*\* Elevated tank has a 1,000,000 gallon maximum capacity.

19 **Total Wells**

2 **Wells Not Available**

#16 Being Retrofitted for Submersible Pump to Gain 500 gpm

#27 Redevelopment in process

17 **Number of Wells Available**

