

REPORT TO CITY COUNCIL

Approved by:

Council Meeting of: May 15, 2019

John Scarborough, Interim Public Works Director

Agenda Number: B-3

Arnoldo Rodriguez, City Manager

SUBJECT:

Water Conservation Report for March 18th through April 21st

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 March 18th through April 21st increased from 37.5 percent in 2018 to 38 percent. Below is the most current water conservation data.

Monthly Conservation

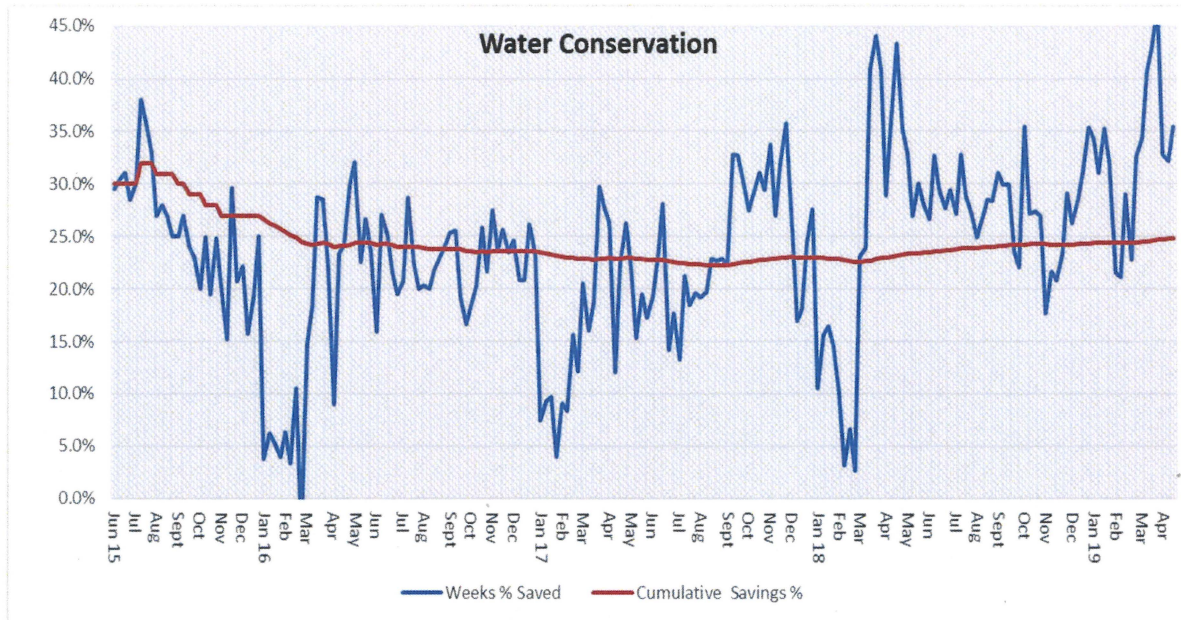
Mar. 18th
Through
Apr. 21st

38%

Cumulative Conservation

June 1st, 2015
Through
Mar. 21st, 2019

24.8%



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

April Utility Billing Newsletter
Watering schedule and articles regarding rebate program and leak detection

Events

Sierra Vista Event – 3/21/19- 200 participants
MCCC Spring Extravaganza 4/11/19 – 250 participants
MCSOS Life Games Event – 4/11/19 – 300 participants
Neighborhood Watch Events – 3/19, 3/26, 4/6, 4/11,
Earth Day 4/12/19 – 250 participants
Sugar Pine Smokehouse Grand Opening Event – 4/20/19 – 100 participants

Water Conservation Activities:

To encourage water conservation, staff conducts extensive outreach 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.

Enforcement			
Individual Contacts	213	1st offense (\$75)	18
Verbal Warnings	23	2nd offense (\$200)	3
Maintenance Notices	44	3rd or more offenses (\$500)	0

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 83 properties. Customer concern investigations were conducted and resulted in the discovery of leaks at 8 properties and need for adjustments to irrigation systems at 1 property. Courtesy leak notifications were sent to an additional 26 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 Madeirans through innovative reclamation, conservation and education on water use.

ALTERNATIVES:

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

ATTACHMENTS:

1. Status Report March 18, 2019 through April 21, 2019 - Water Production and Reserve Fire Flow Capacity

STATUS REPORT March 18th to APRIL 21ST, 2018
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
3/18/2019	Mon	83	4.563	12pm-1pm	44	780,000	16	6	10	11220	Yes	Yes	Yes	Yes
3/19/2019	Tue	78	4.555	8pm-9pm	45	820,000	16	6	10	12130	Yes	Yes	Yes	Yes
3/20/2019	Wed	65	4.484	12pm-1pm	45	780,000	16	5	11	12041	Yes	Yes	Yes	Yes
3/21/2019	Thu	66	4.421	7pm-8pm	45	780,000	16	6	10	11731	Yes	Yes	Yes	Yes
3/22/2019	Fri	67	4.250	8pm-9pm	45	780,000	16	5	11	13020	Yes	Yes	Yes	Yes
3/23/2019	Sat	65	4.523	4pm-5pm	46	780,000	16	4	12	13841	Yes	Yes	Yes	Yes
3/24/2019	Sun	68	4.808	8pm-9pm	45	780,000	16	7	9	10620	Yes	Yes	Yes	Yes
3/25/2019	Mon	78	4.288	7pm-8pm	43	780,000	16	6	10	11820	Yes	Yes	Yes	Yes
3/26/2019	Tue	73	4.599	8pm-9pm	45	780,000	16	6	10	11820	Yes	Yes	Yes	Yes
3/27/2019	Wed	68	4.497	8pm-9pm	45	780,000	16	6	10	11820	Yes	Yes	Yes	Yes
3/28/2019	Thu	69	4.503	8pm-9pm	44	820,000	16	6	10	11820	Yes	Yes	Yes	Yes
3/29/2019	Fri	68	4.324	7pm-8pm	43	780,000	16	16	0	11820	Yes	Yes	Yes	Yes
3/30/2019	Sat	71	4.838	1pm-2pm	45	780,000	16	6	10	11530	Yes	Yes	Yes	Yes
3/31/2019	Sun	76	5.133	12pm-1pm	43	780,000	16	7	9	10020	Yes	Yes	Yes	Yes
4/1/2019	Mon	79	4.437	8pm-9pm	44	820,000	16	6	10	12315	Yes	Yes	Yes	Yes
4/2/2019	Tue	76	4.713	7pm-8pm	45	780,000	16	5	11	13197	Yes	Yes	Yes	Yes
4/3/2019	Wed	71	4.873	9pm-10pm	43	780,000	16	7	9	11198	Yes	Yes	Yes	Yes
4/4/2019	Thu	67	4.778	8pm-9pm	45	780,000	16	6	10	11850	Yes	Yes	Yes	Yes
4/5/2019	Fri	69	4.761	8pm-9pm	43	780,000	16	6	10	12213	Yes	Yes	Yes	Yes
4/6/2019	Sat	77	5.442	1pm-2pm	45	820,000	16	7	9	10860	Yes	Yes	Yes	Yes
4/7/2019	Sun	81	6.099	7pm-8pm	45	780,000	16	6	10	12462	Yes	Yes	Yes	Yes
4/8/2019	Mon	80	4.643	6pm-7pm	45	820,000	16	6	10	11985	Yes	Yes	Yes	Yes
4/9/2019	Tue	69	5.402	9pm-10pm	42	600,000	16	6	10	12287	Yes	Yes	Yes	Yes
4/10/2019	Wed	72	5.953	7pm-8pm	44	780,000	16	6	10	12564	Yes	Yes	Yes	Yes
4/11/2019	Thu	67	5.574	5pm-6pm	45	780,000	16	5	11	13197	Yes	Yes	Yes	Yes
4/12/2019	Fri	72	5.516	7pm-8pm	43	820,000	16	7	9	11050	Yes	Yes	Yes	Yes
4/13/2019	Sat	80	7.253	7pm-8pm	44	780,000	16	7	9	10948	Yes	Yes	Yes	Yes
4/14/2019	Sun	83	7.195	7pm-8pm	43	780,000	16	8	8	9698	Yes	Yes	Yes	Yes
4/15/2019	Mon	76	5.091	1pm-2pm	44	780,000	16	6	10	12374	Yes	Yes	Yes	Yes
4/16/2019	Tue	68	6.565	7pm-8pm	45	820,000	16	6	10	11883	Yes	Yes	Yes	Yes
4/17/2019	Wed	76	6.833	8pm-9pm	44	780,000	16	9	7	8848	Yes	Yes	Yes	Yes
4/18/2019	Thu	89	6.608	9pm-10pm	43	820,000	16	8	8	10098	Yes	Yes	Yes	Yes
4/19/2019	Fri	91	6.445	8pm-9pm	45	820,000	16	7	9	11050	Yes	Yes	Yes	Yes
4/20/2019	Sat	77	7.273	8pm-9pm	44	780,000	16	7	9	11050	Yes	Yes	Yes	Yes
4/21/2019	Sun	74	6.534	7pm-8pm	45	780,000	16	7	9	11050	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**

