



# COUNCIL MONTHLY REPORT

## DEPARTMENT: PUBLIC WORKS

MONTH: MAY 2016

### PUBLIC WORKS

During May, Public Works staff responded to 105 requests for service submitted through the City's E-Gov software. Of those requests for service 3% were generated from outside City Hall.

Public Works staff ran the street sweeper four times in May. The table below records the debris recovered, diesel used, hours swept, and the volume of water used.

Date Swept	Diesel Used (gallons)	Hours Swept	Collected Amount (cubic yards)	Water Used (gallons)
5/5/2016	13	4	4	150
5/12/2016	11	3	4	150
5/19/2016	13	4	4	150
5/26/2016	6	2	3	150
<b>MAY</b>	<b>43</b>	<b>13</b>	<b>15</b>	<b>600</b>

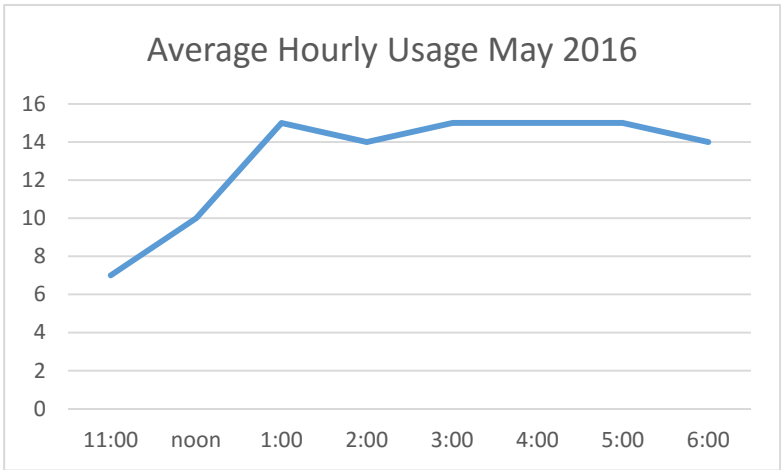
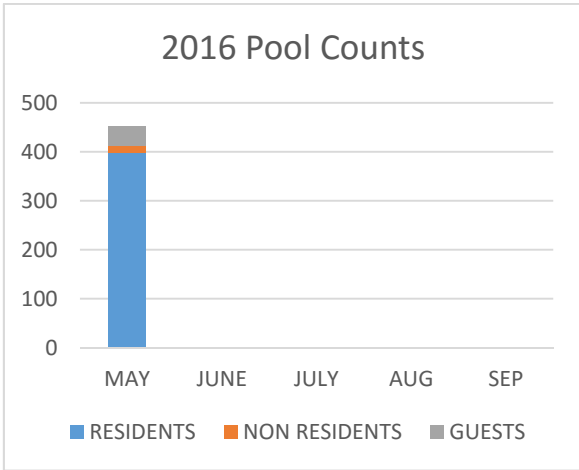
In May, there were four cuts of the irrigated areas (those areas of the City with sprinkler systems), two cuts of the non-irrigated areas and one cut to the I-45 Feeder. Once a week Brickman's staff checks these areas and picks up any debris.

Public Works staff performs two checks of the City Park during the week days and once on Saturday and Sunday. During the morning and afternoon checks, trash cans are emptied if needed, bathrooms are checked for cleanliness, and a general inspection is performed. Both splash pad sensors were replaced with new sensors that were provided by the manufacturer under warranty.

During the heavy rains, the public works department worked with the police department to barricade streets due to flooding. Also during the storm, fallen trees and tree limbs were cleared from the streets that presented a traffic hazard.

The Woodlands hosted the Ironman Texas 2016 on May 15<sup>th</sup>. The City provided the portable restroom trailer for the Ironman event. The restrooms were provided for the medical staff who worked on site to care for the Ironman participants. Public works staff monitored and cleaned the trailer during the event.

Prior to the event the city offered the use of our pool to some of the participants for training. Wednesday through Friday we had 6 event participants take advantage of the city's pool. The City pool opened for use on the weekends and Memorial Day during the month of May. Pool statistics are recorded in following charts.

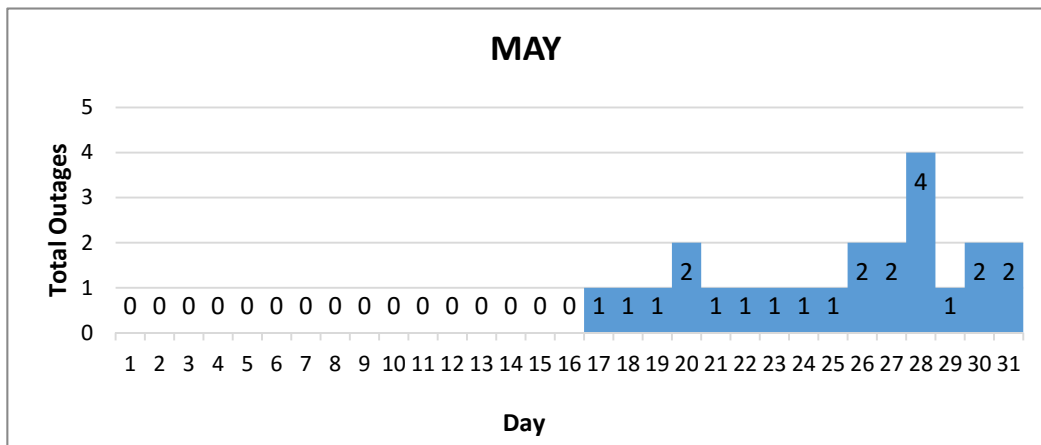


Solar streetlights were monitored during the month for outages, battery replacements, maintenance issues, and testing. The batteries recovered are those that showed a failure upon first testing when removed from the solar light, but staff was able to perform a 16V boost and recover some of the lost capacity. The security bolts to light #82 stripped, because they have rusted.

### SOLAR STREETLIGHT DATA

Item Monitored	Quantity
Average number of lights out per day	.74
Number of lights with battery change outs	5
Number of batteries tested	37
Number of battery replaced (failures)	5
Number of batteries recovered	0
Number of controllers replaced	0
Number of fixtures replaced	0
Number of solar panels replaced	0
Number of drivers replaced	0
Number of wiring issues	0

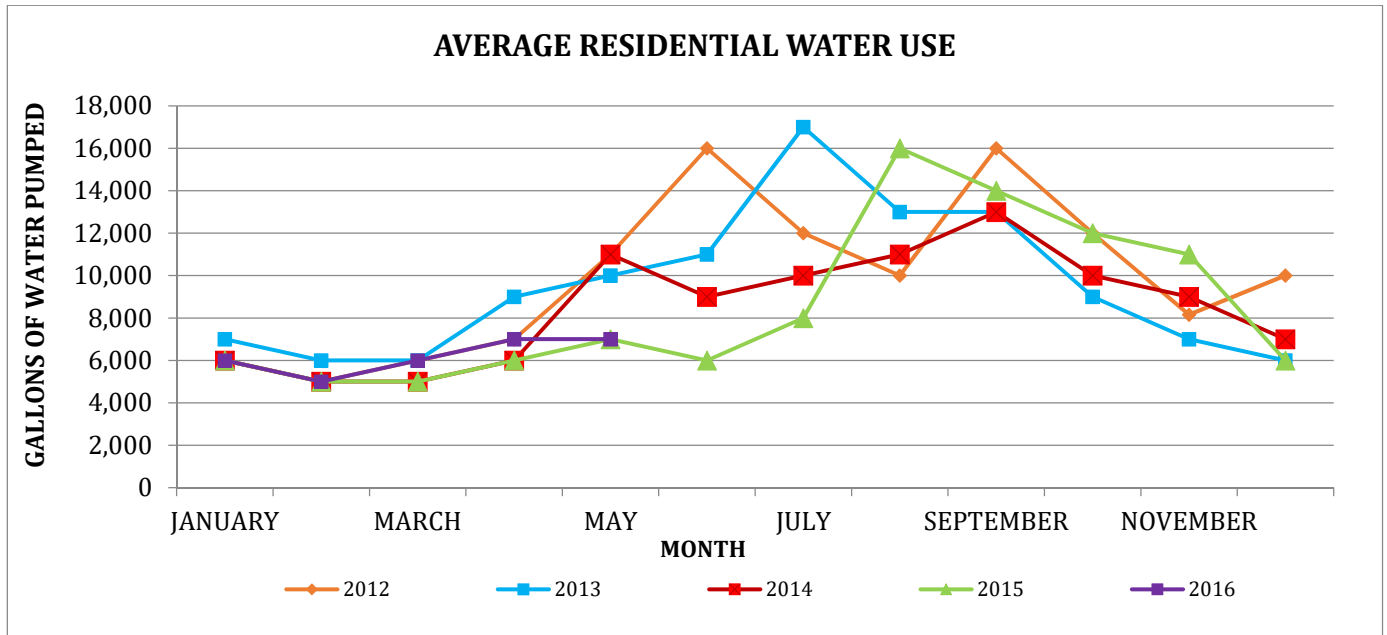
The chart below shows the number of street light outages per day for the month. This represents the total number of lights out each day and does not identify specifically which lights are out.



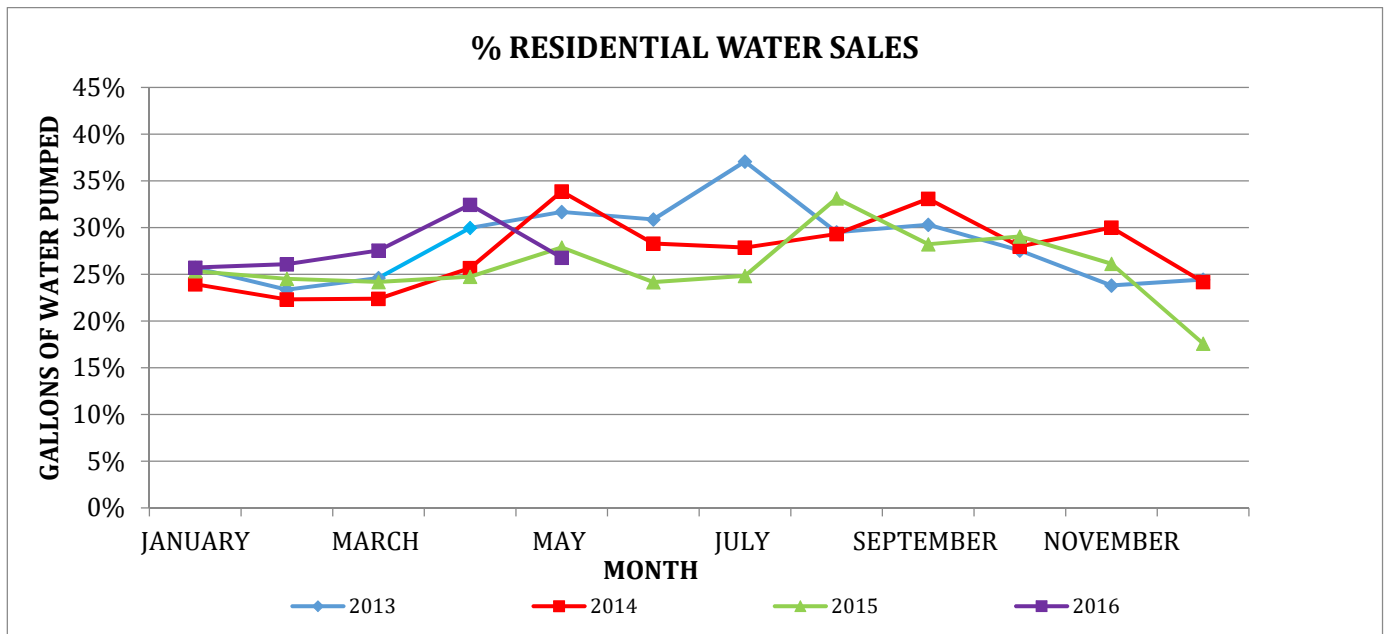
## WATER & SEWER

Water and sewer data is reported on monthly reports as calendar months except for the average residential water use and the water loss data which are reported for the billing month as these data points are based on use data which is only available on a billing month cycle. Data reported with the utility billing report is reported as a billing month.

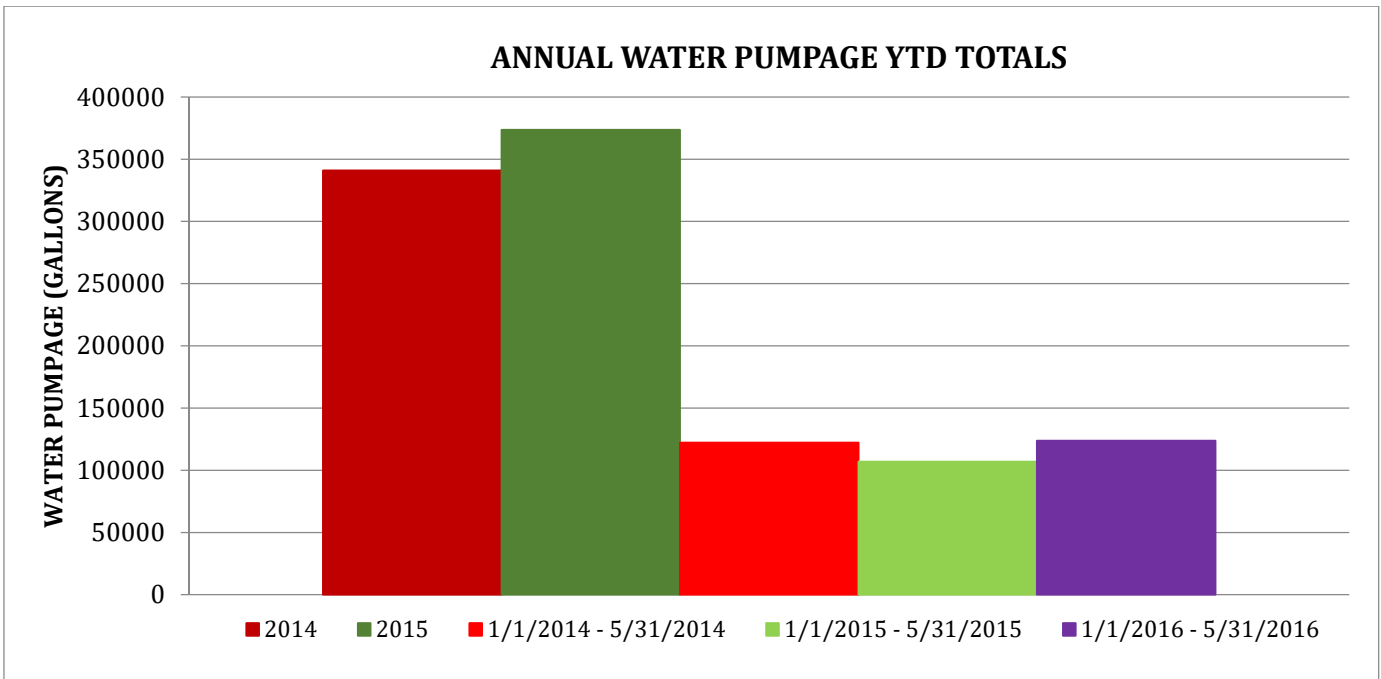
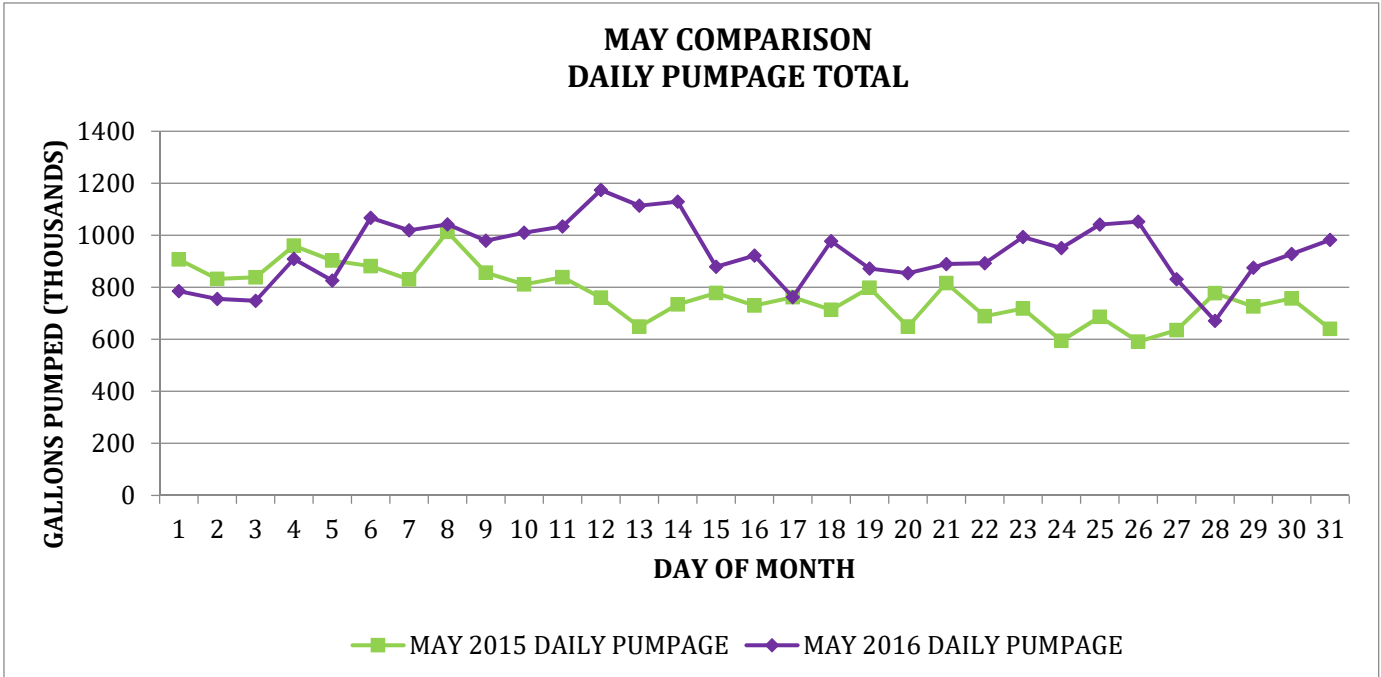
Groundwater production for the calendar month of May was approximately 28.96 million gallons with an average daily use of 934,000 gallons. The average residential water use for the billing month was 7,000 g allons. The next chart shows the average residential water use for each month compared to previous months.



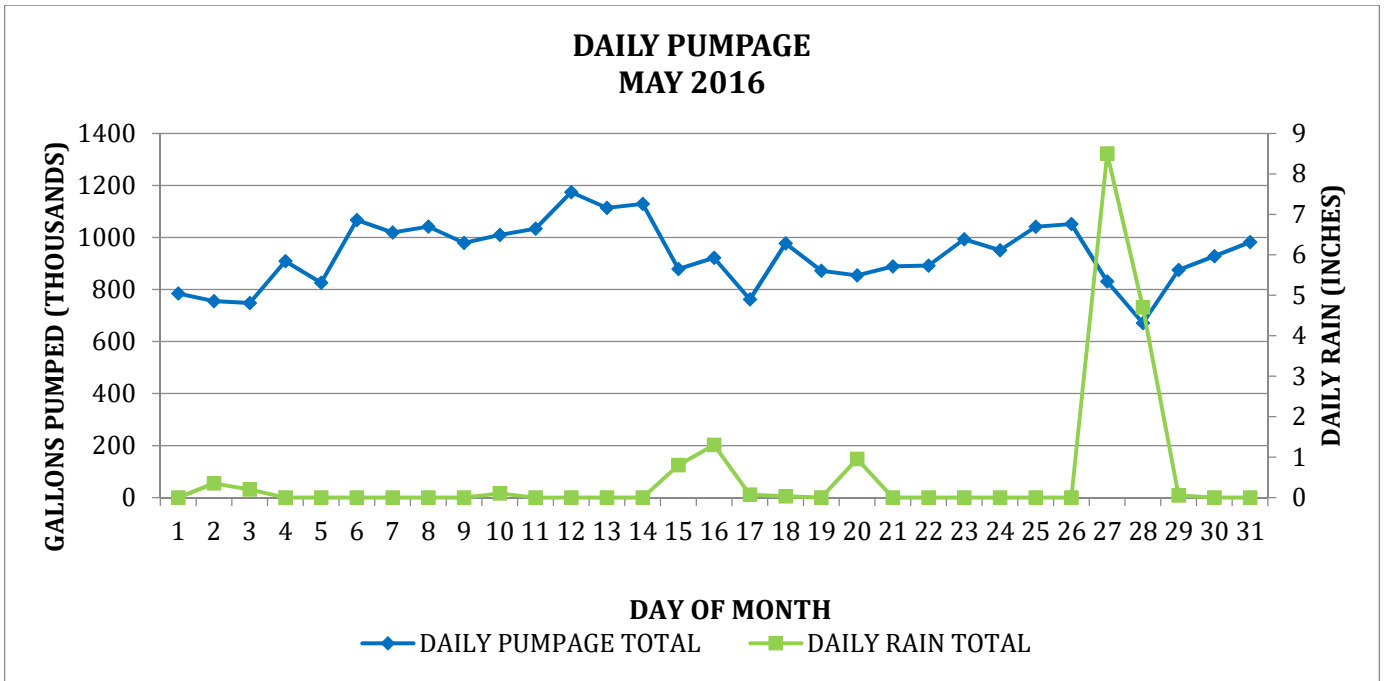
The chart below shows how much residential water sales have accounted for. In May 2015 residential water sales accounted for 27.87 % of all water sales compared to 26.78 % for the current month.



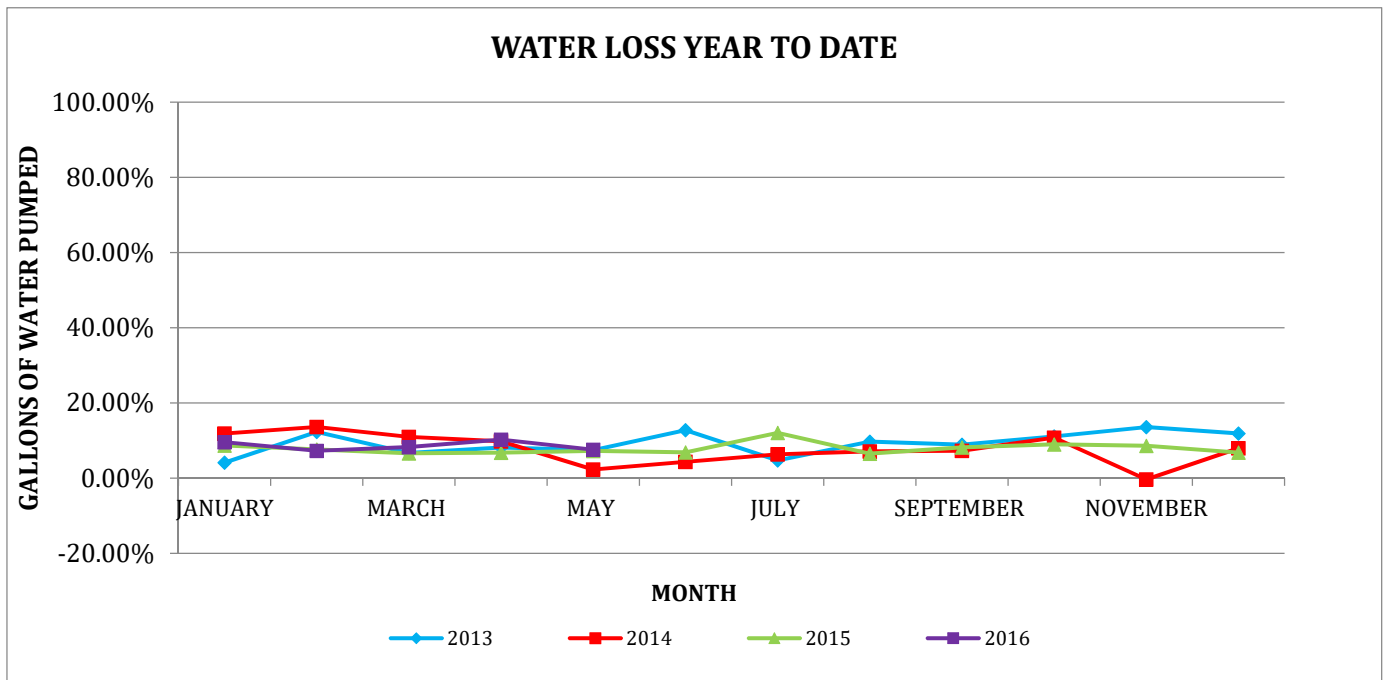
The next two charts show the daily pumpage data compared to previous years. Through May the City has pumped 123.7 million gallons of water this year. Last year during the same period the City pumped 106.9 million gallons.



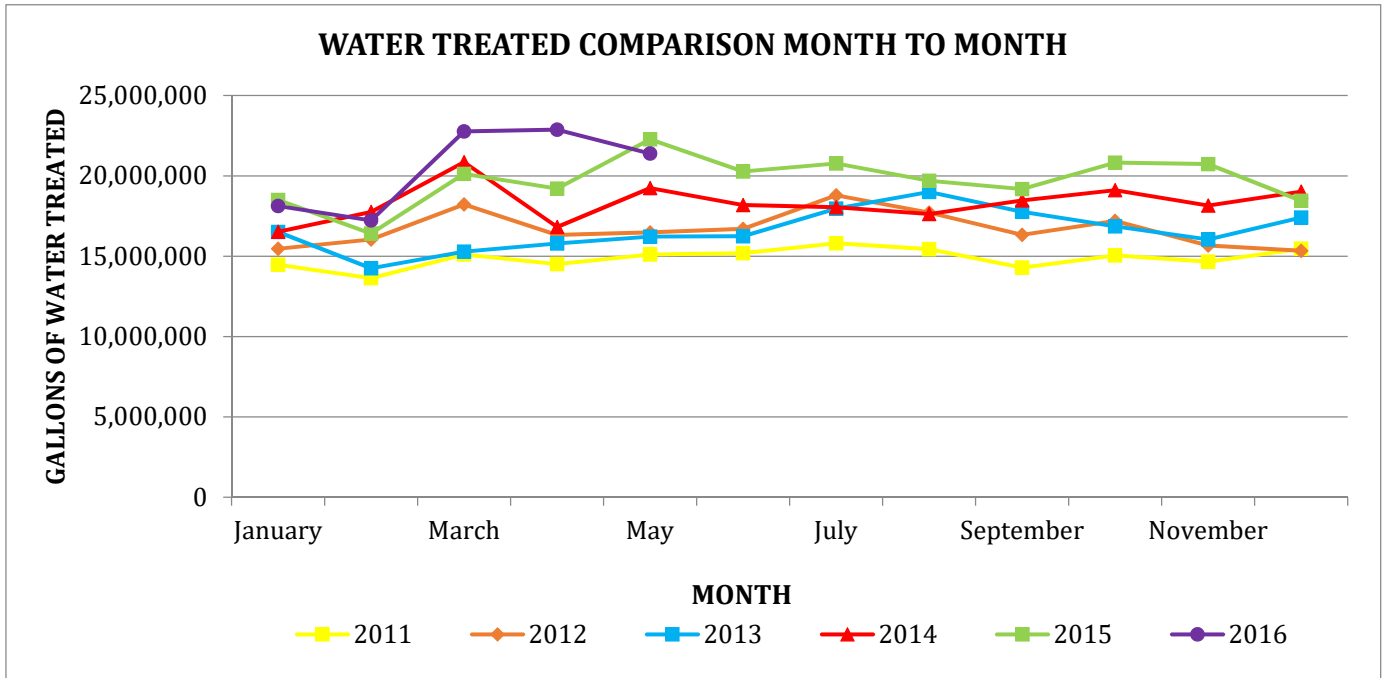
The next chart shows the daily pumpage compared with rain.



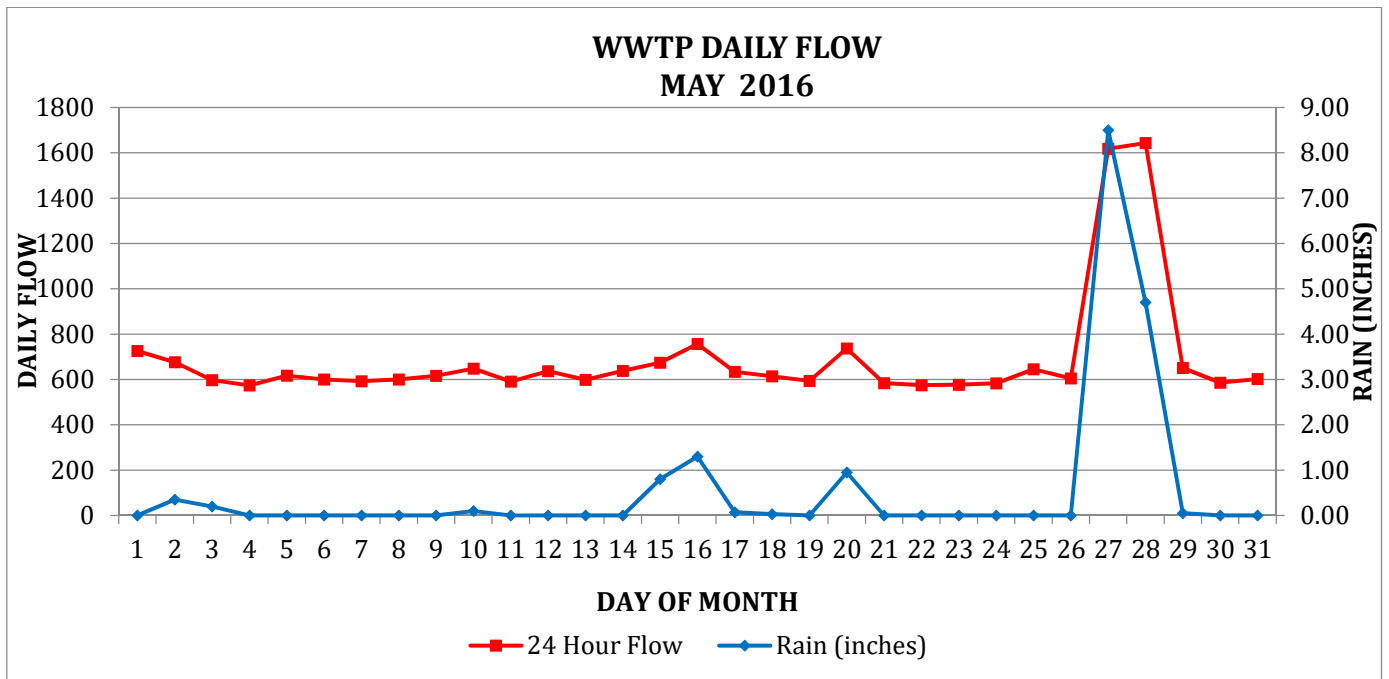
The water loss for the month of April was 10.26%. The chart below compares the loss rate to previous years.



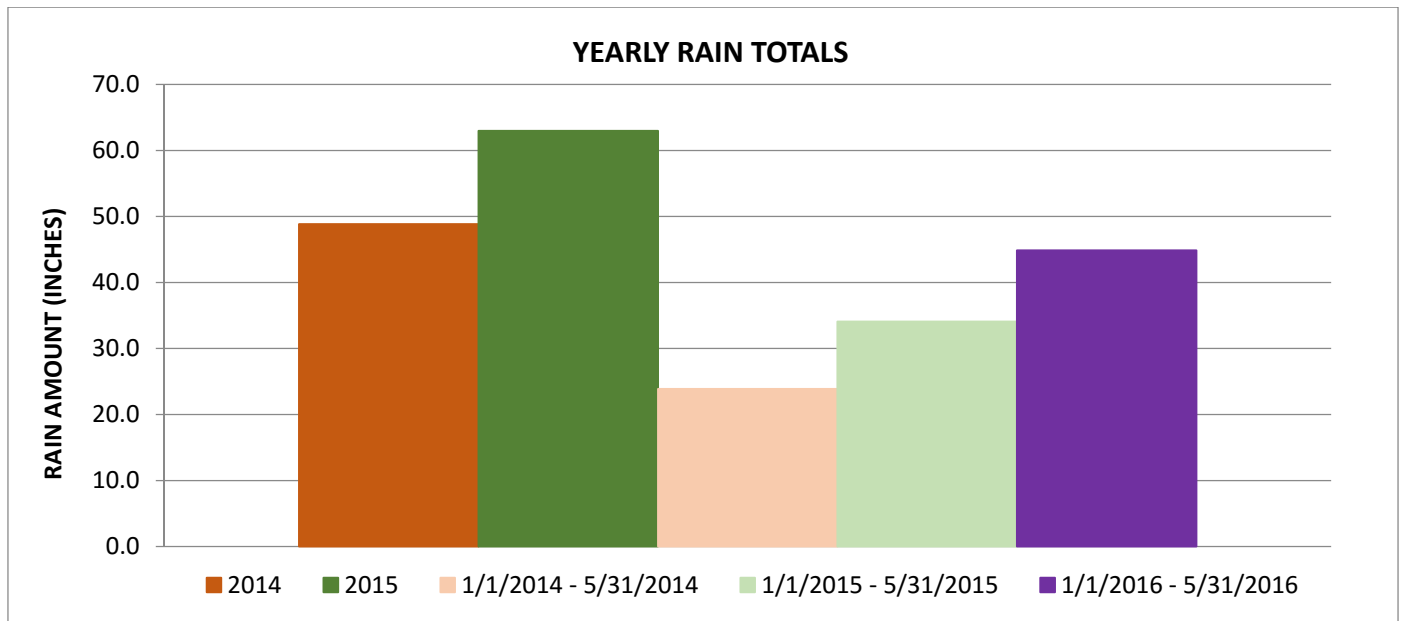
The next chart compares flow data at the wastewater treatment plant to previous years.



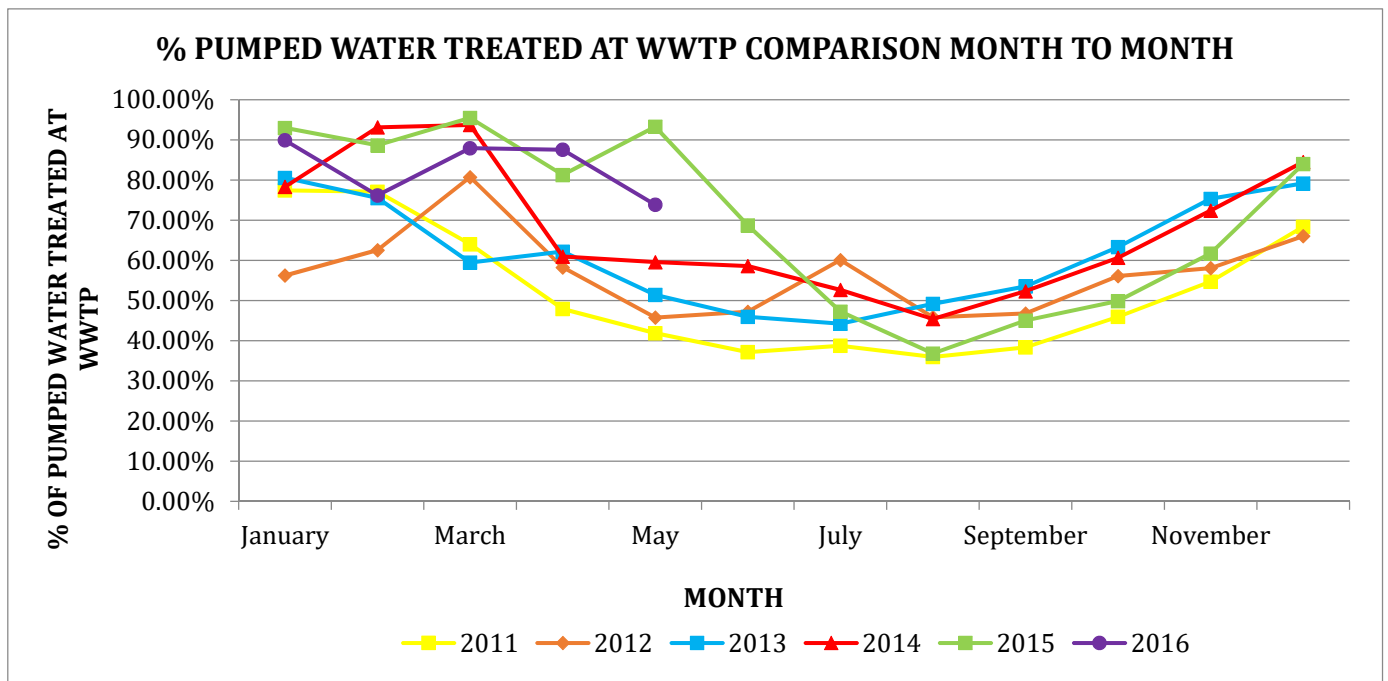
The City's wastewater treatment plant flowed 21.4 million gallons this month for an average of 690,000 gallons per day. Through the year, the City has treated 102.4 million gallons. The chart below shows the daily flow at the treatment plant and daily rainfall. During the heaviest of the rainfall the daily maximum flow was recorded at 1.643 million gallon per day (MGD) The City is permitted to process a 1.3 MGD maximum. Despite exceeding the maximum daily flow by more than 300,000 gallons the City maintained all of its permit requirements for the month. A complement to the water/wastewater operators.



Through May 31st the City has registered 44.87 inches of rain at the treatment plant compared to 34.07 and 23.88 inches in previous years. The next chart summarizes rainfall from previous years.



The City “recovered” over 73.86% of the water pumped at the treatment plant. The chart below compares the monthly percent recovery to previous years.



SUBMITTED BY: Joseph Peart