



# COUNCIL MONTHLY REPORT

DEPARTMENT: PUBLIC WORKS

MONTH: SEPTEMBER 2016

## PUBLIC WORKS

During September, Public Works staff responded to 116 requests for service submitted through the City's E-Gov software. Of those requests for service 7% were generated from outside City Hall.

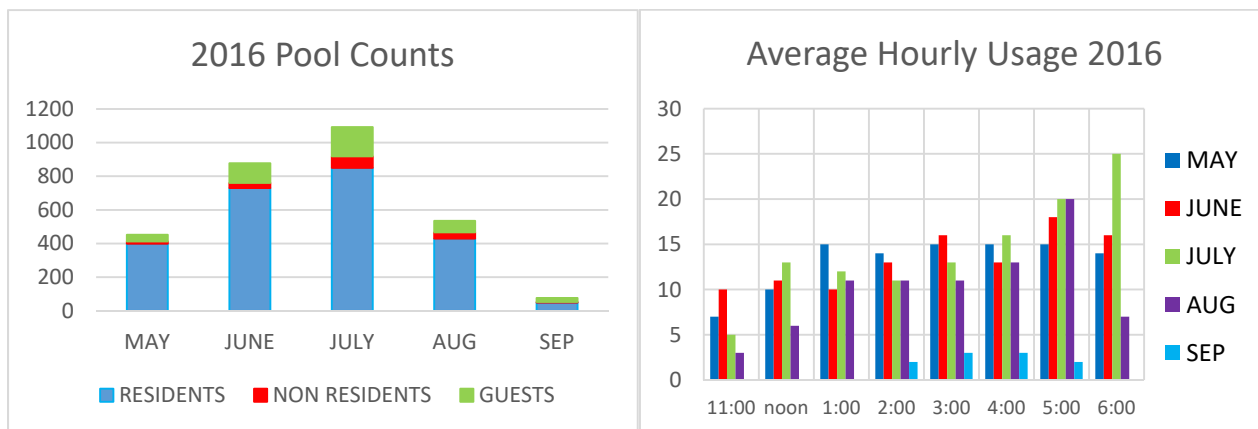
Public Works staff ran the street sweeper five times in September. The table below records the debris recovered, diesel used, hours swept, and the volume of water used.

Date Swept	Diesel Used (gallons)	Hours Swept	Collected Amount (cubic yards)	Water Used (gallons)
9/2/2016	11	3	4	150
9/8/2016	7	3	4	150
9/15/2016	11	3	4	150
9/22/2016	12	4	4	150
9/29/2016	13	4	8	150
<b>SEPTEMBER</b>	<b>54</b>	<b>17</b>	<b>24</b>	<b>750</b>

In September, 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 BrightView's staff checks these areas and picks up any debris.

Public Works staff performs two checks of the City Parks during the weekdays 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.

The pool's final day open for the year was on September 25<sup>th</sup>. Pool data is recorded in the following charts.

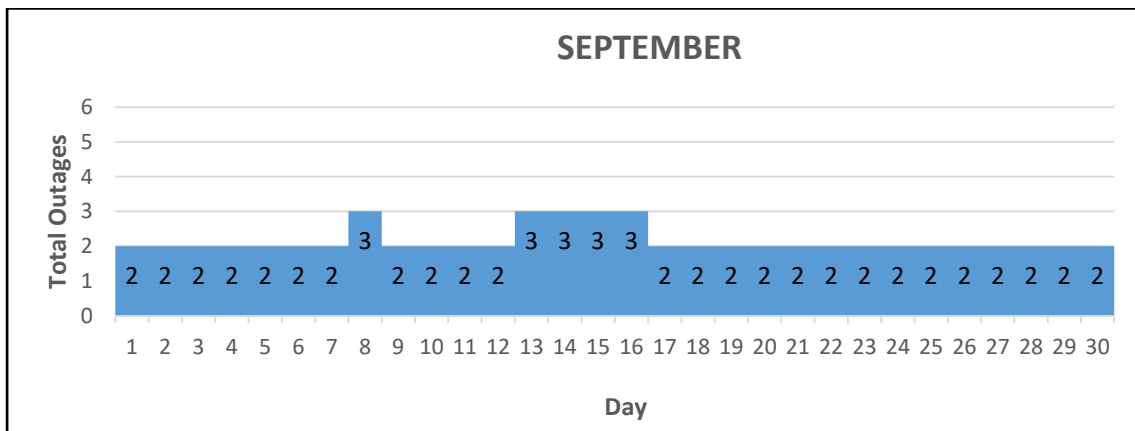


Solar streetlights were monitored during the month for outages, battery replacements, maintenance issues, and testing. The batteries recovered are those that showed a failure upon first testing when removed from the solar light, but staff was able to perform a 16V boost and recover some of the lost capacity.

### SOLAR STREETLIGHT DATA

Item Monitored	Quantity
Average number of lights out per day	2.2
Number of lights with battery change outs	1
Number of batteries tested	40
Number of battery replaced (failures)	2
Number of batteries recovered	2
Number of controllers replaced	1
Number of fixtures replaced	0
Number of solar panels replaced	0
Number of drivers replaced	0
Number of wiring issues	1

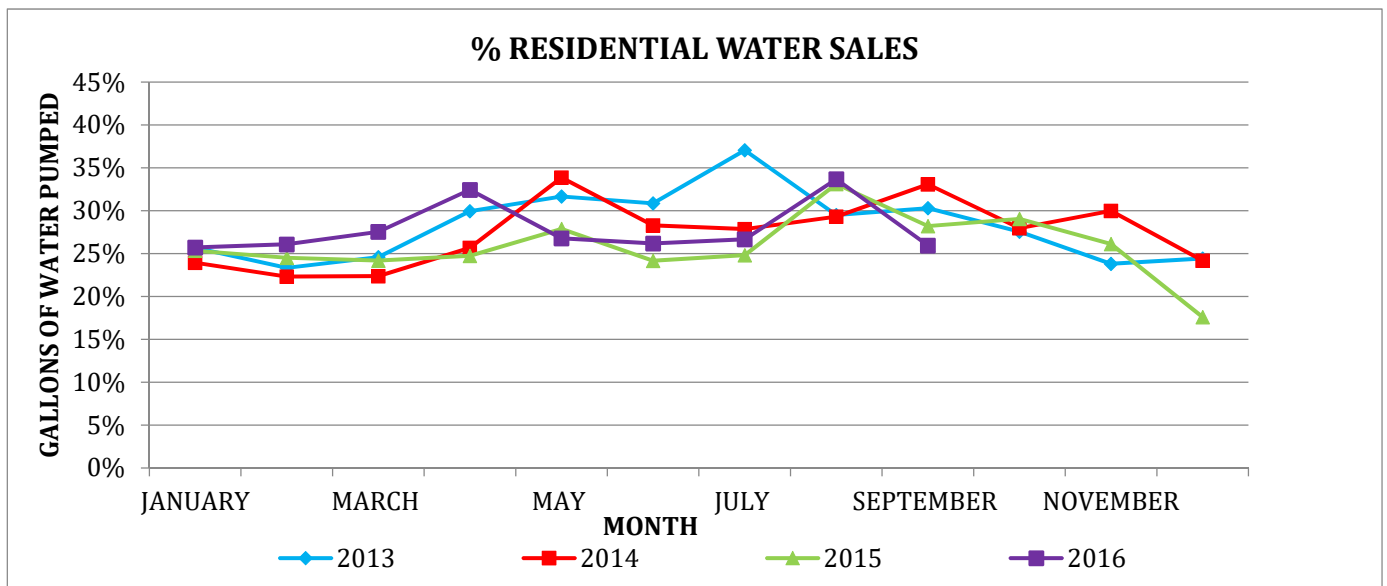
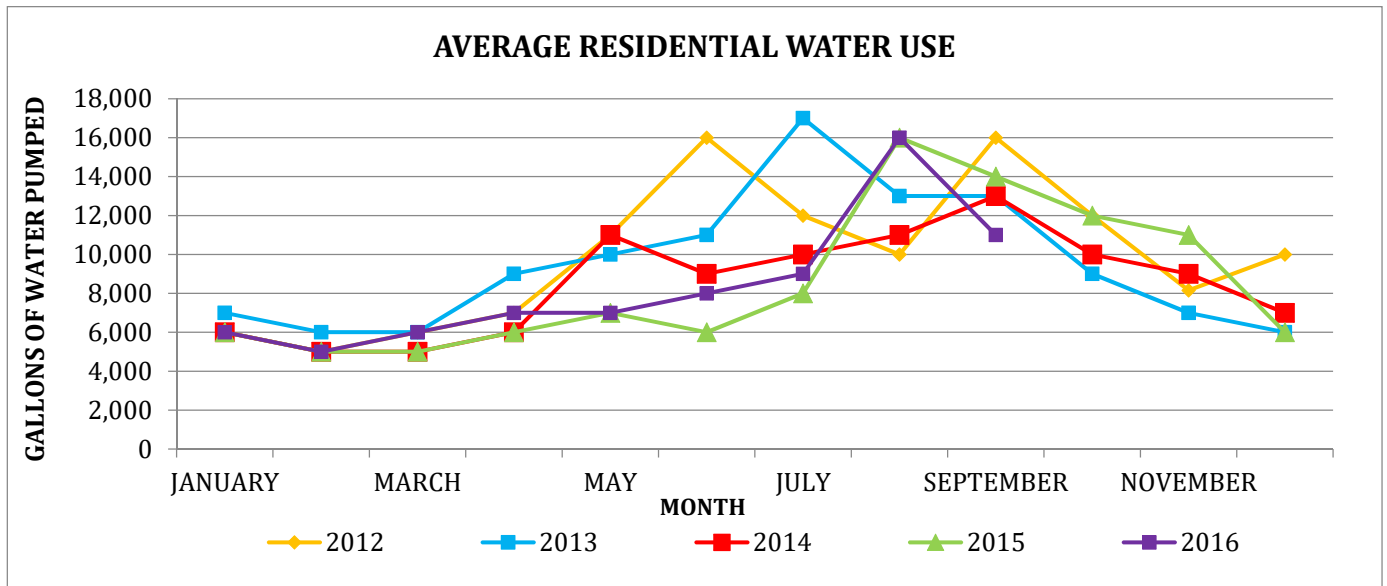
Light outages are recorded when either the light does not come on during the night or the light goes out sometime during the night. The chart below shows the number of street light outages per day for the month. This represents the total number of lights out each day and does not identify specifically which lights are out.



## WATER & SEWER

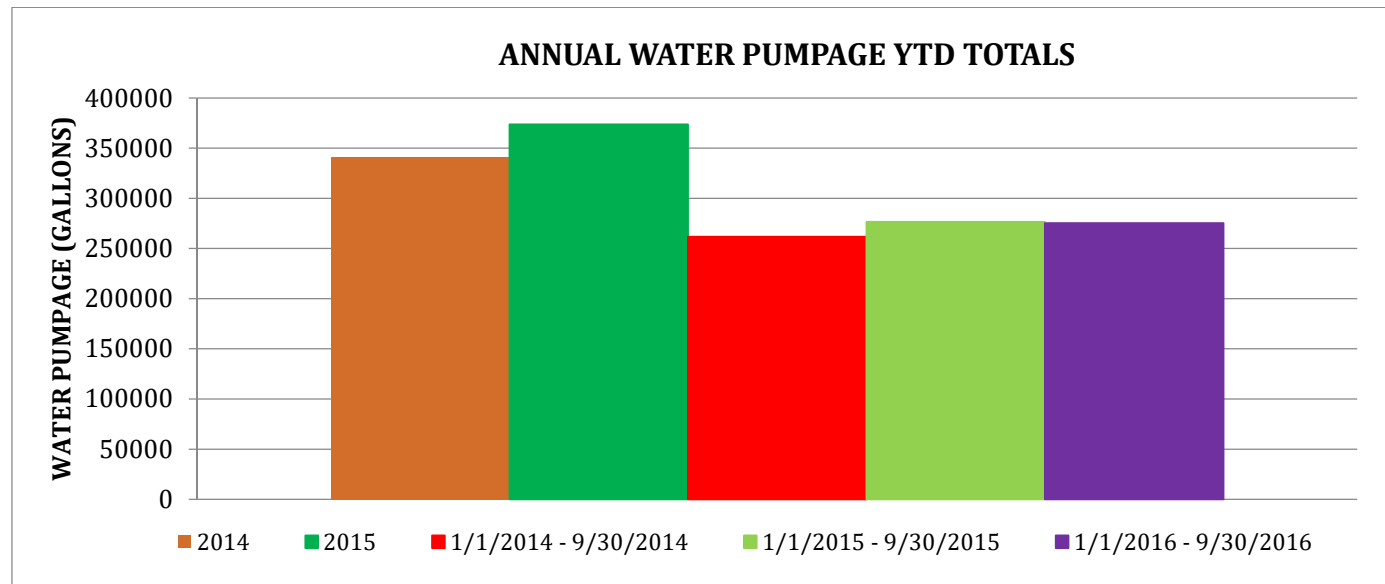
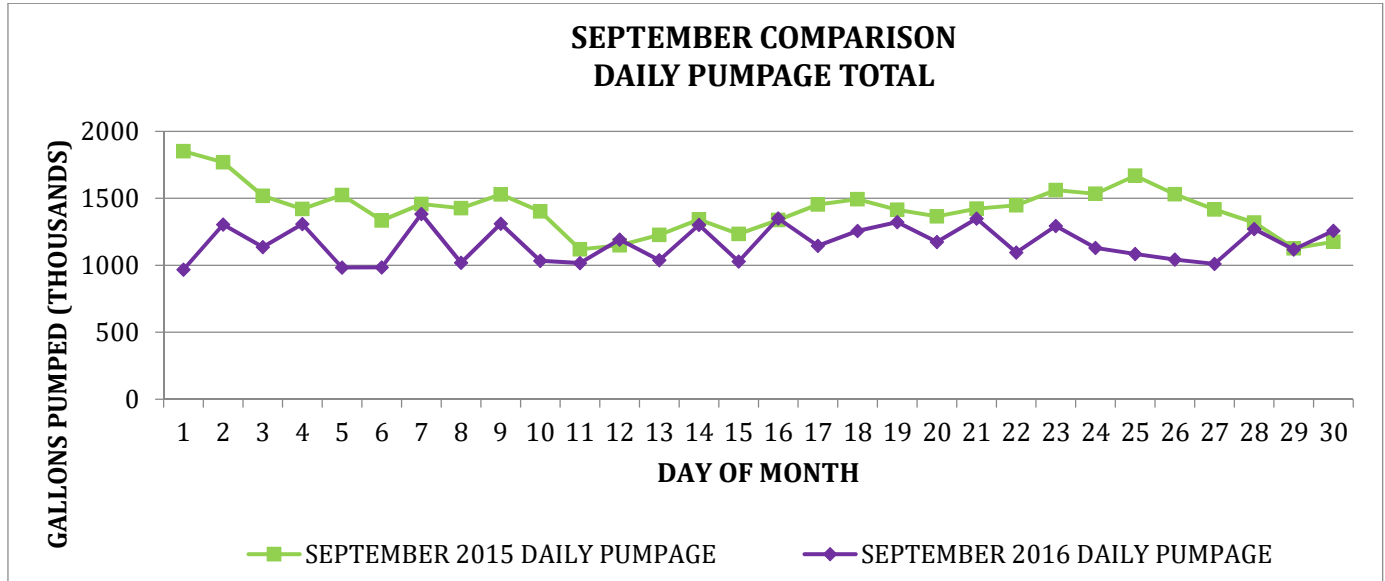
Water and sewer data is reported on monthly reports as calendar months except for the average residential water use and the water loss data which are reported for the billing month as these data points are based on use data which is only available on a billing month cycle. Data reported with the utility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

Groundwater production for the calendar month of September was approximately 34.91 million gallons with an average daily use of 1,164,000 gallons. The average residential water use for the billing month was 11,000 gallons. The next chart shows the average residential water use for each month compared to previous months.

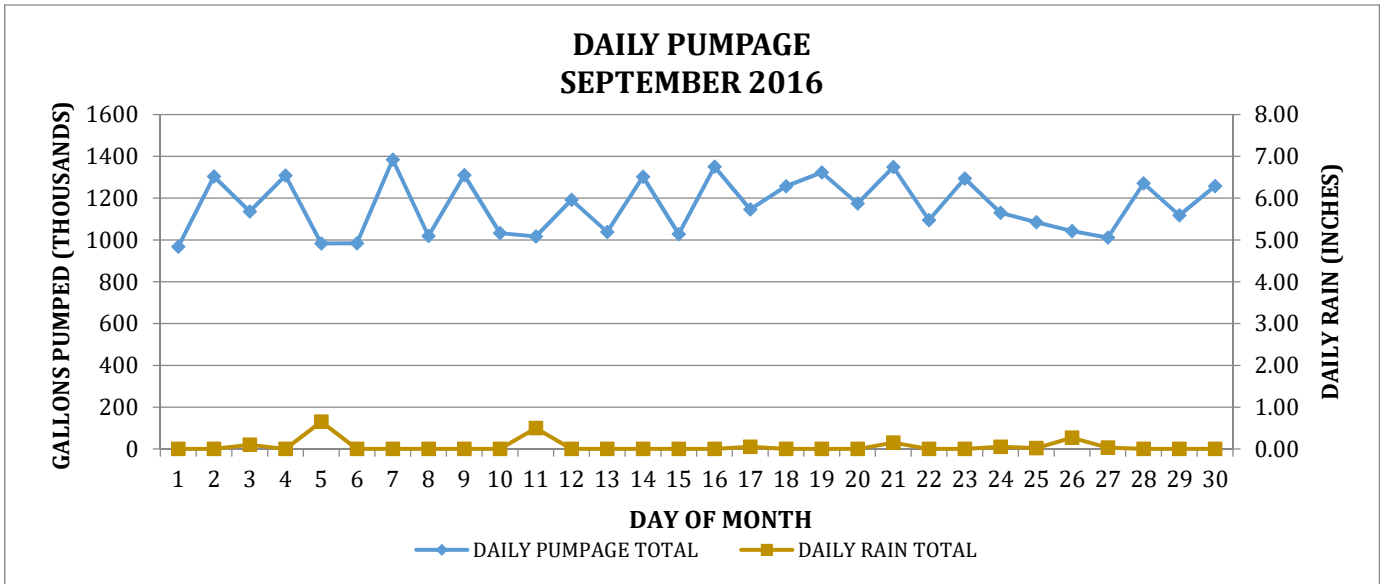


The chart below shows how much residential water sales have accounted for. In September 2015 residential water sales accounted for 28.21 % of all water sales compared to 25.94 % for the current month.

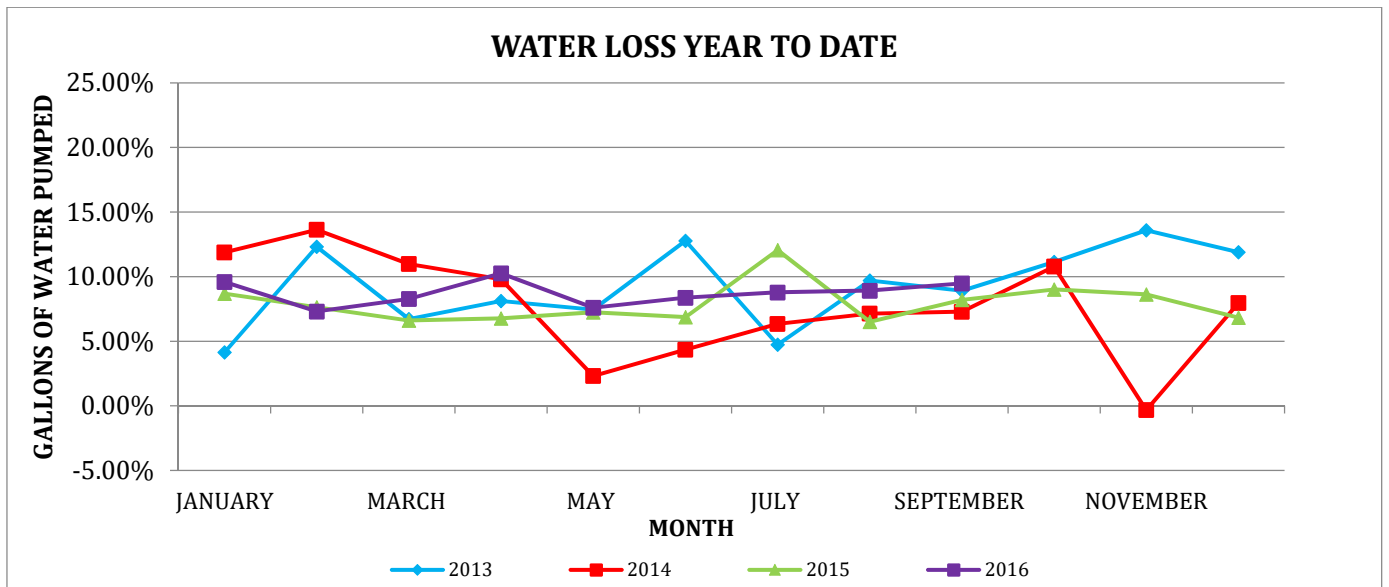
The next two charts show the daily pumpage data compared to previous years. Through September the City has pumped 275.3 million gallons of water this year. Last year during the same period the City pumped 276.5 million gallons.



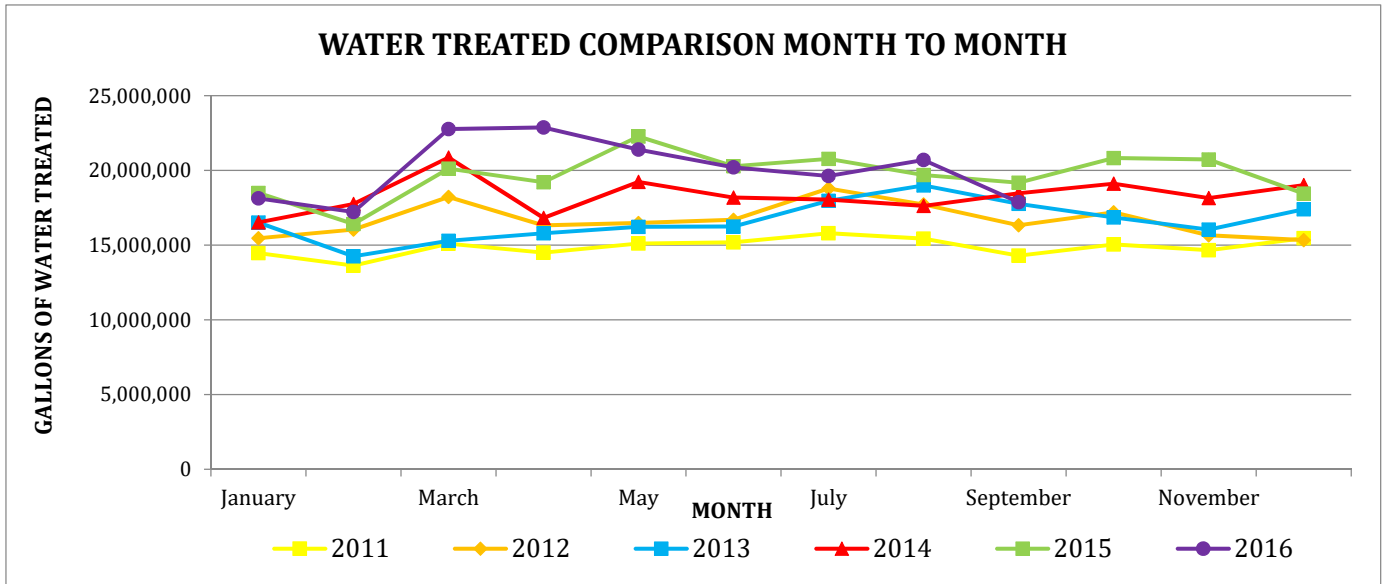
The next chart shows the daily pumpage compared with rain.



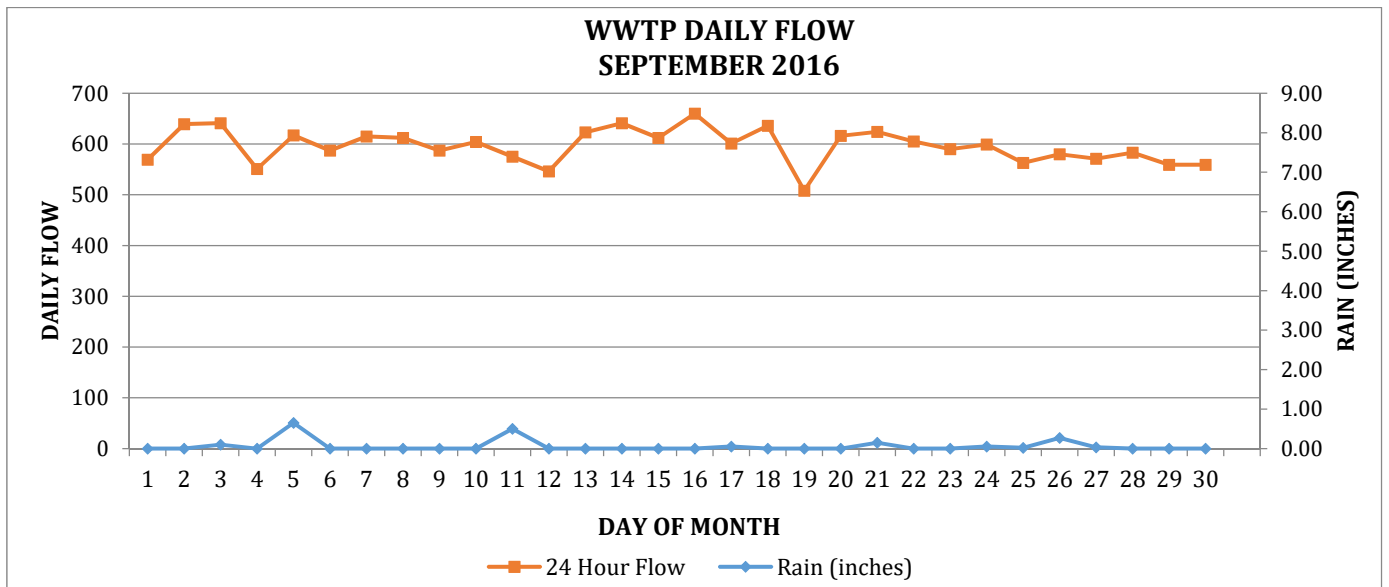
The water loss for the month of September was 9.48%. The chart below compares the loss rate to previous years.



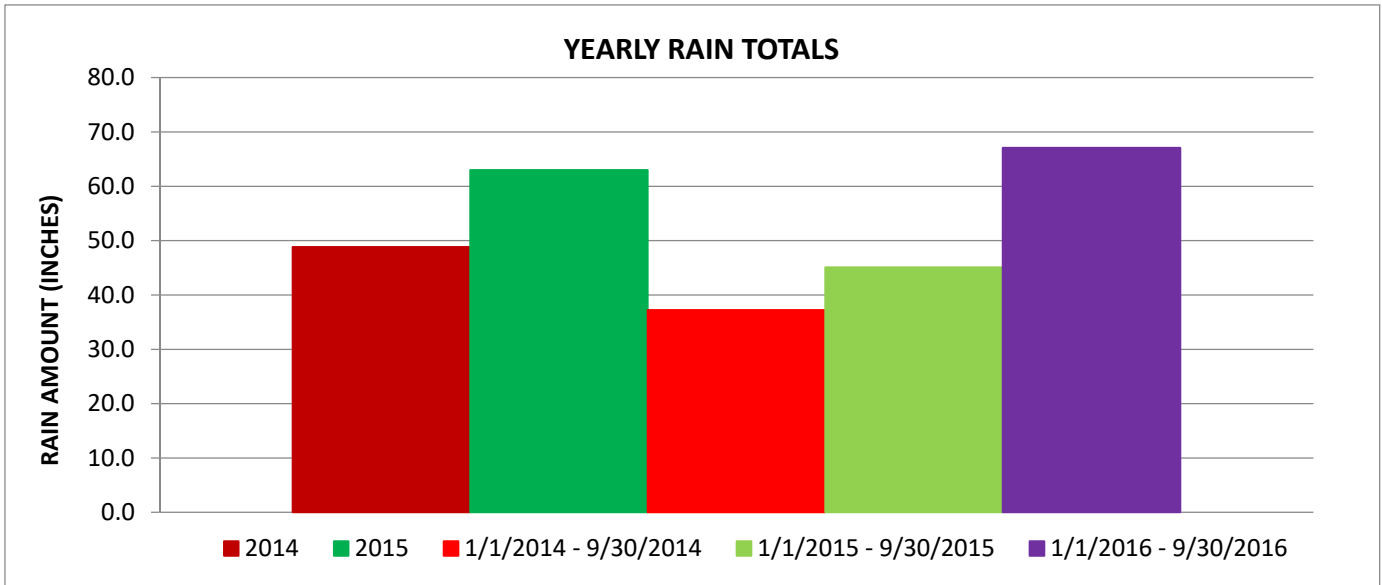
The next chart compares flow data at the wastewater treatment plant to previous years.



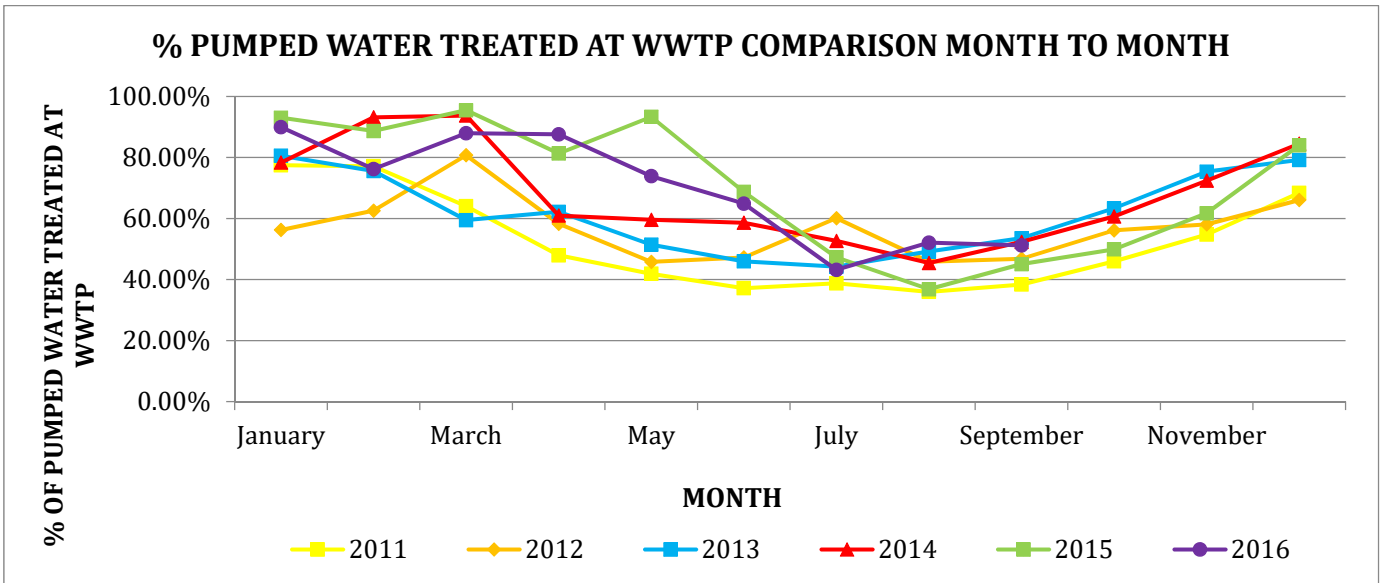
The City's wastewater treatment plant flowed 17.9 million gallons this month for an average of 595,767 gallons per day. Through the year, the City has treated 180.8 million gallons. The chart below shows the daily flow at the treatment plant and daily.



Through September 30th the City has registered 67.1 inches of rain at the treatment plant compared to 45.1 and 37.23 inches in previous years. The next chart summarizes rainfall from previous years.



The City “recovered” over 51.20 % of the water pumped at the treatment plant. The chart below compares the monthly percent recovery to previous years.



On June 22<sup>nd</sup> TCEQ performed an inspection of the City’s water system. Our water system was reviewed by TCEQ and rated to be a Superior water system.