



COUNCIL MONTHLY REPORT

DEPARTMENT: PUBLIC WORKS

MONTH: FEBRUARY 2016

PUBLIC WORKS

During February Public Works staff responded to 241 requests for service submitted through the City's E-Gov software. Of those requests for service 22% were generated from outside City Hall.

Public Works staff ran the street sweeper four times in February. 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)
2/4/2016	12	3	4	150
2/11/2016	11	3	4	150
2/18/2016	8	3	4	150
2/25/2016	14	4	4	150
FEBRUARY	45	13	16	600

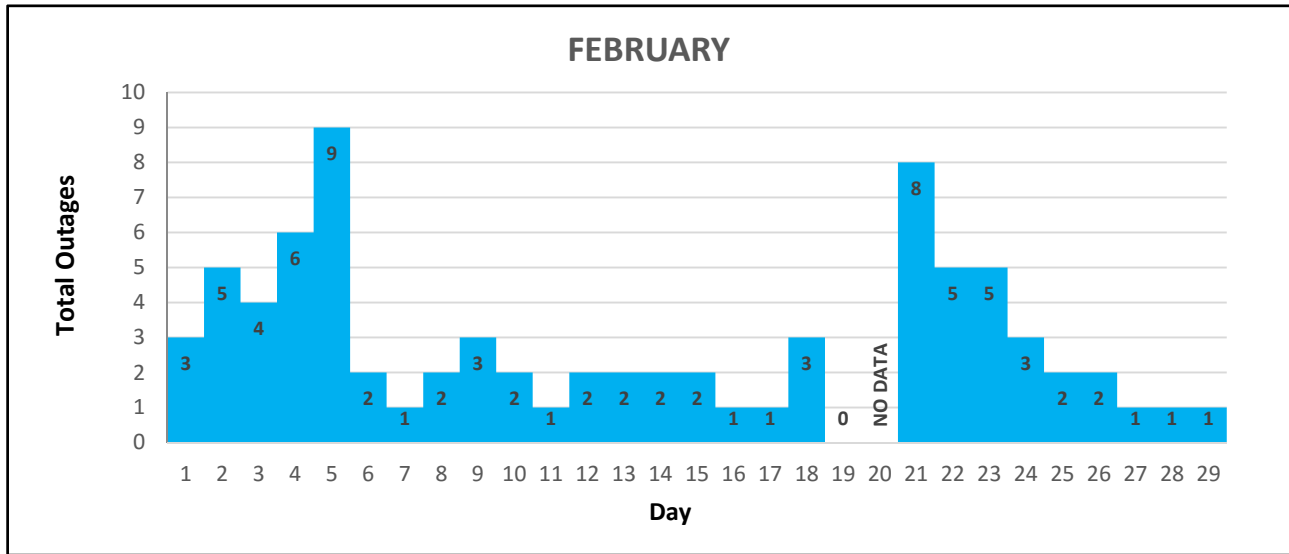
In February, there were two cuts of the irrigated areas (those areas of the City with sprinkler systems), one cut of the non-irrigated areas and one cut to the I-45 Feeder. Once a week Brickman's staff checks these areas and picks up any debris.

SOLAR STREETLIGHT DATA

Item Monitored	Quantity
Average number of lights out per day	3
Number of lights with battery change outs	4
Number of batteries tested	11
Number of battery replaced (failures)	11
Number of batteries recovered	2
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	5

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 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.



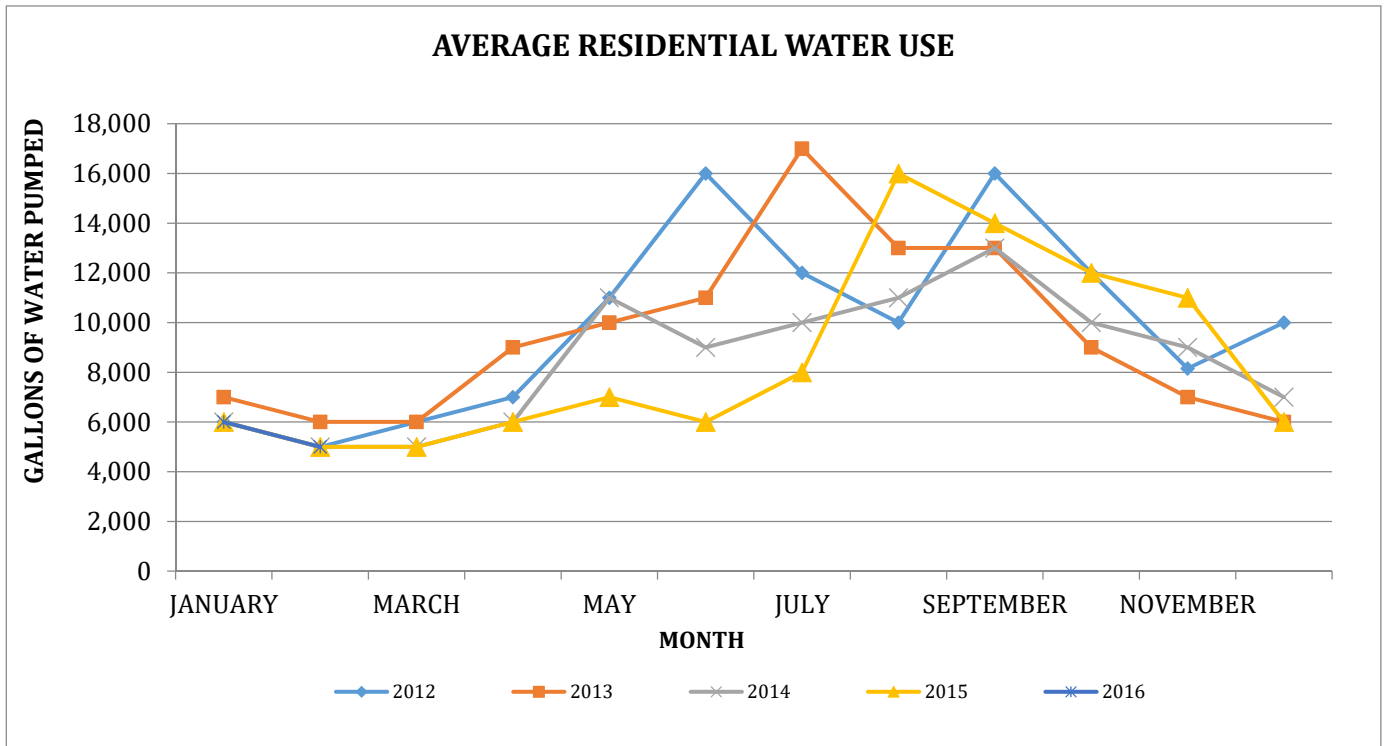
Public Works staff performs two checks of the City Park during the weekdays and once on Saturday and Sunday. During the morning and afternoon checks, trash cans are emptied if needed, bathrooms are checked for cleanliness, and a general inspection is performed. Each Monday a more thorough inspection is completed encompassing exercise equipment, courts, spray ground, and playground equipment.

The exercise equipment had missing bolts, replacements were located and the equipment was repaired. One of the automatic paper towel dispensers was missing a component. A replacement piece was purchased and repairs made.

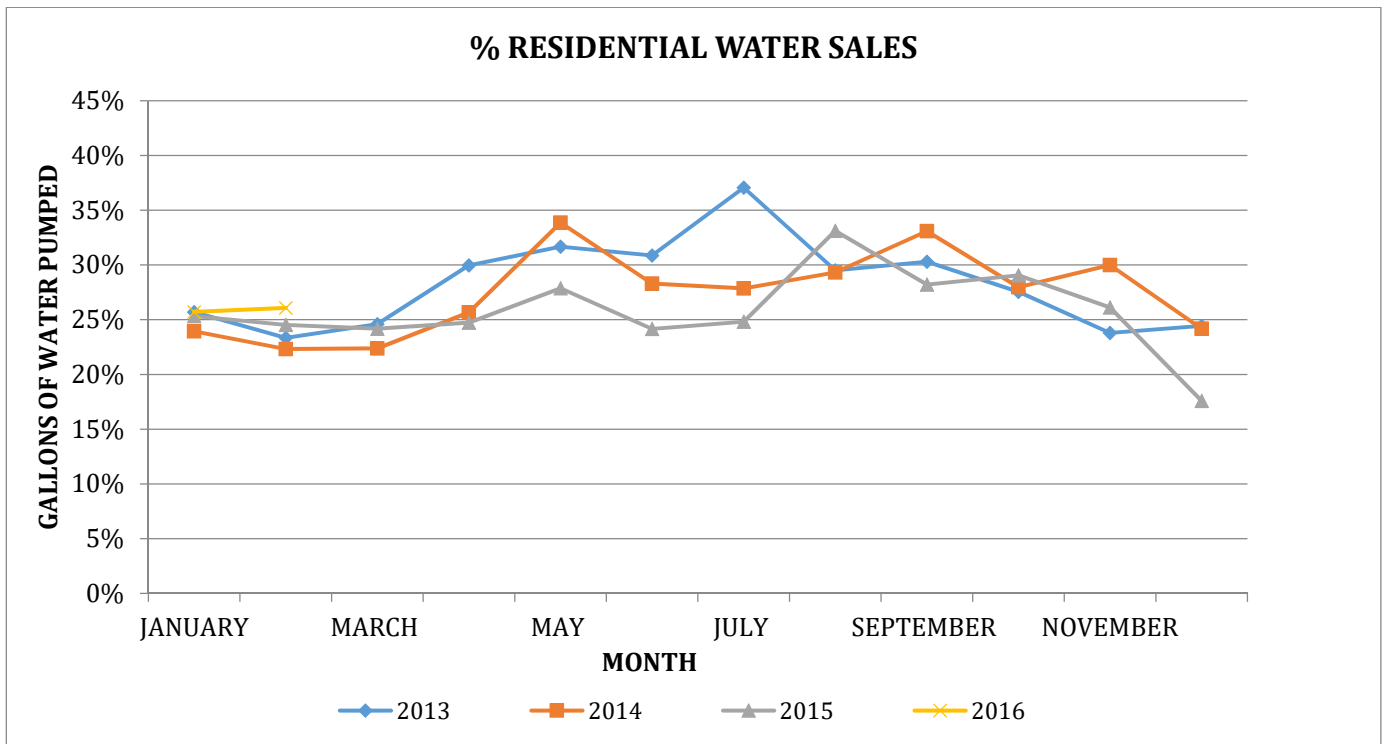
WATER & SEWER

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 February was approximately 22.6 million gallons with an average daily use of 779,000 gallons. The average residential water use for the billing month was 5,000 g allons. The next chart shows the average residential water use for each month compared to previous months.

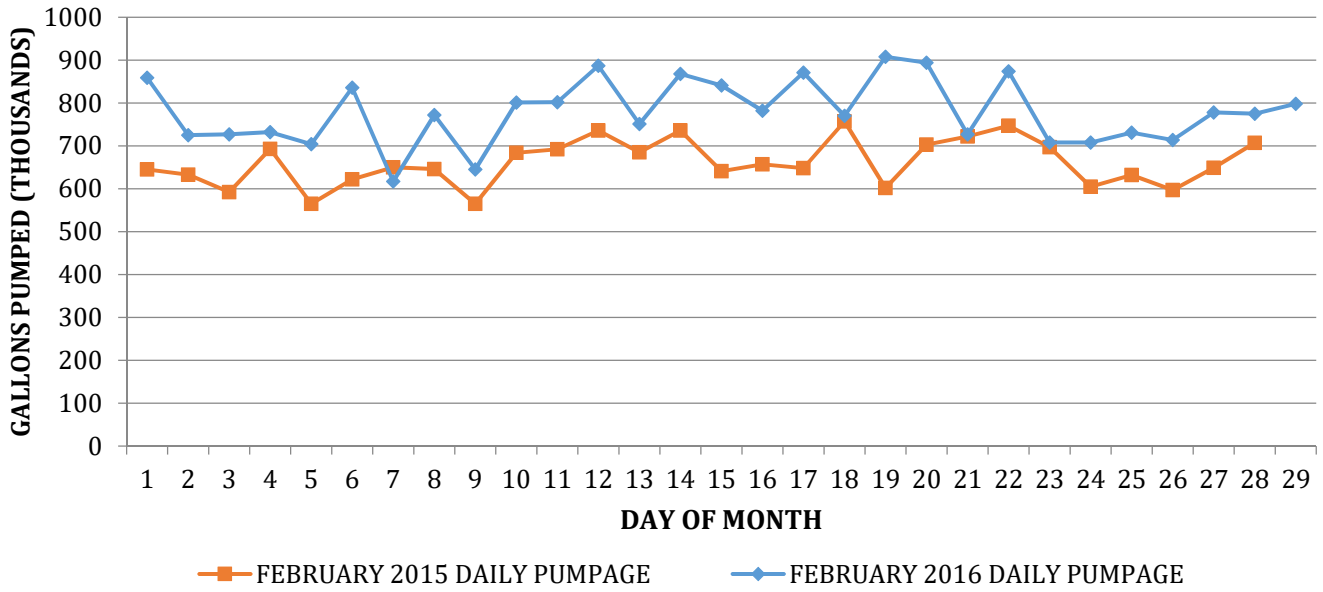


The chart below shows how much residential water sales have accounted for. In February 2015 residential water sales accounted for 24.52% of all water sales compared to 26.08% for the current month.

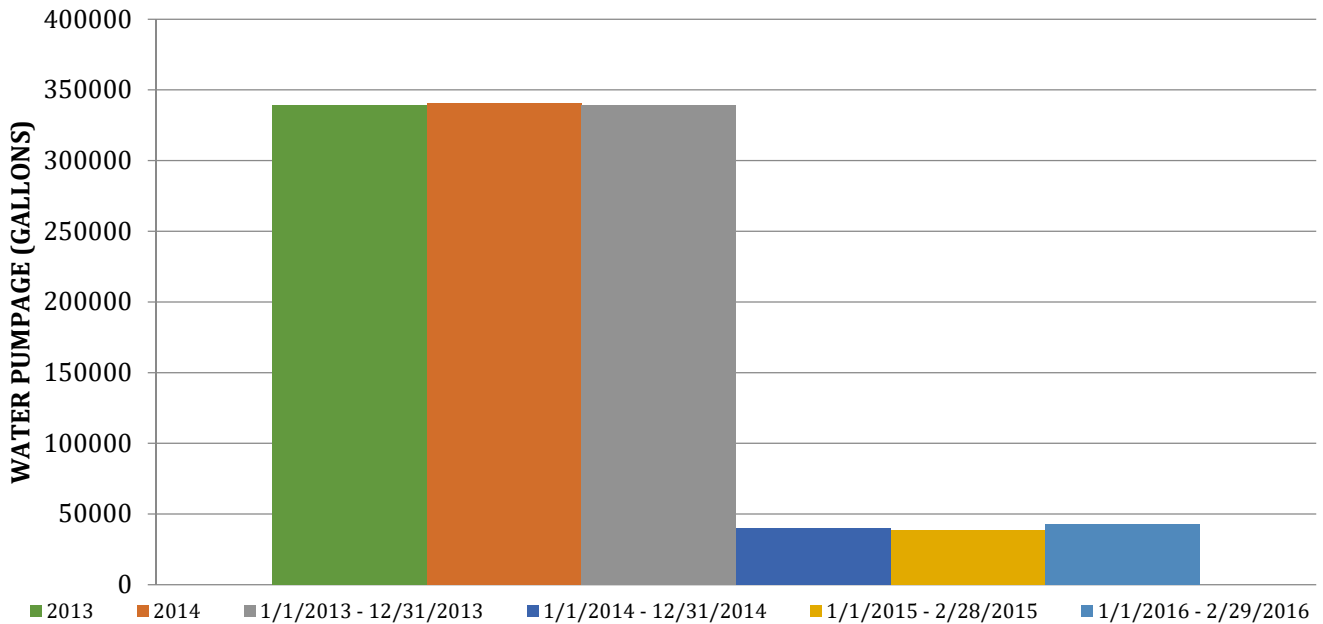


The next two charts show the daily pumpage data compared to previous years. Through February the City has pumped 42.7 million gallons of water this year. Last year during the same period the City pumped 38.3 million gallons.

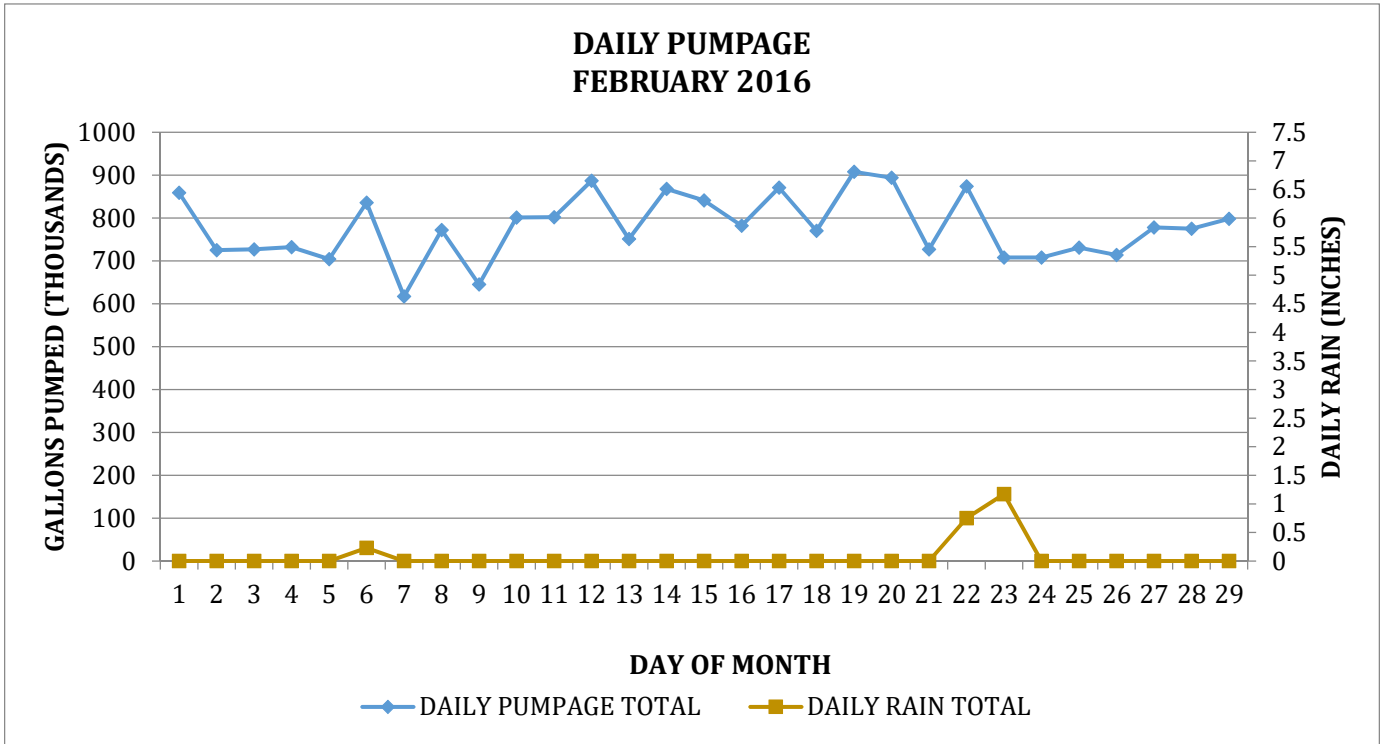
FEBRUARY COMPARISON DAILY PUMPAGE TOTAL



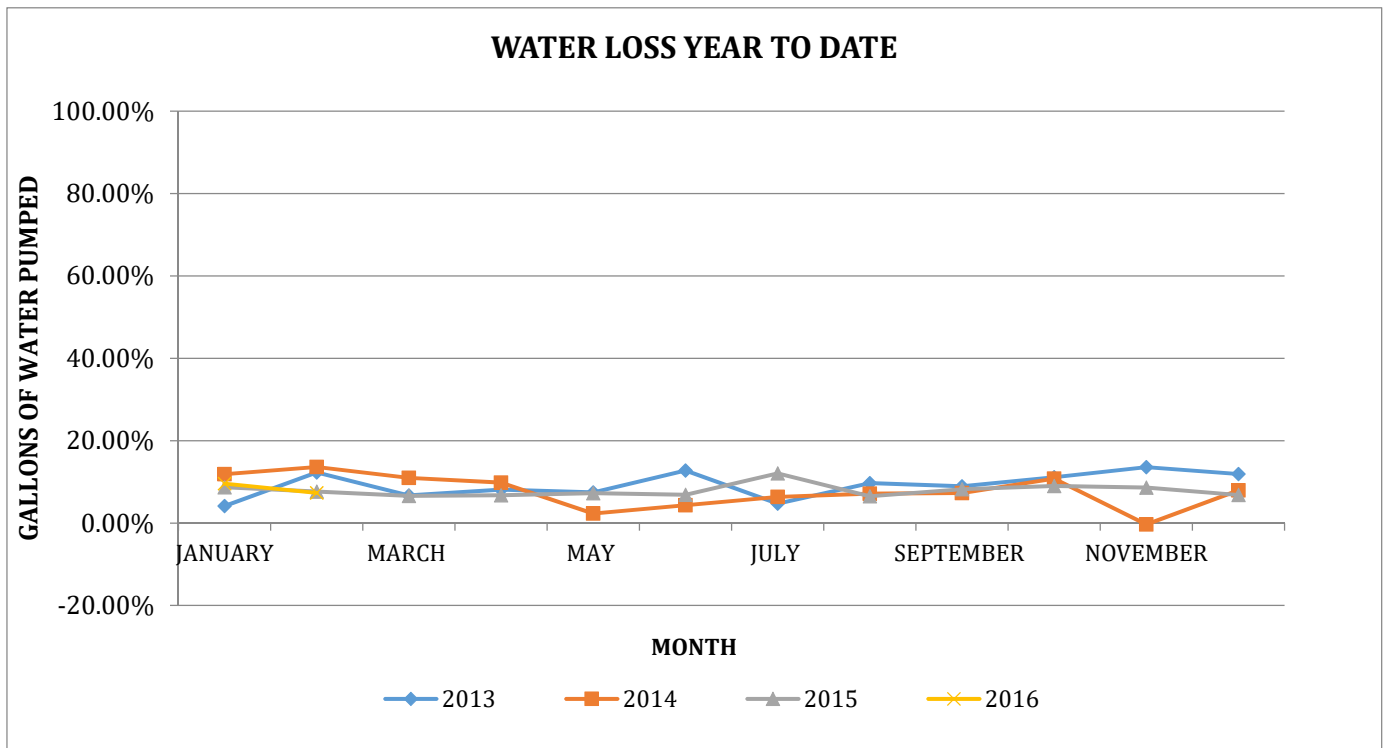
ANNUAL WATER PUMPAGE YTD TOTALS



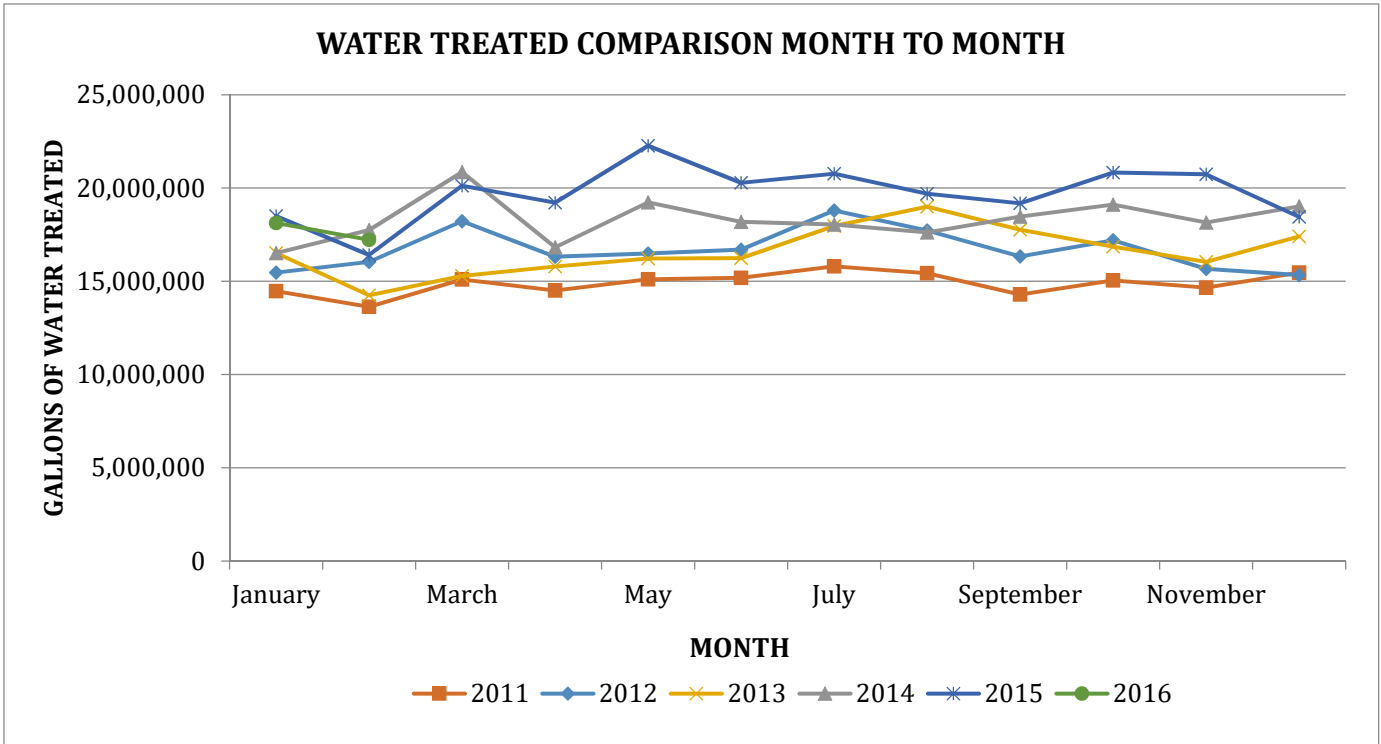
The next chart shows the daily pumpage compared with rain.



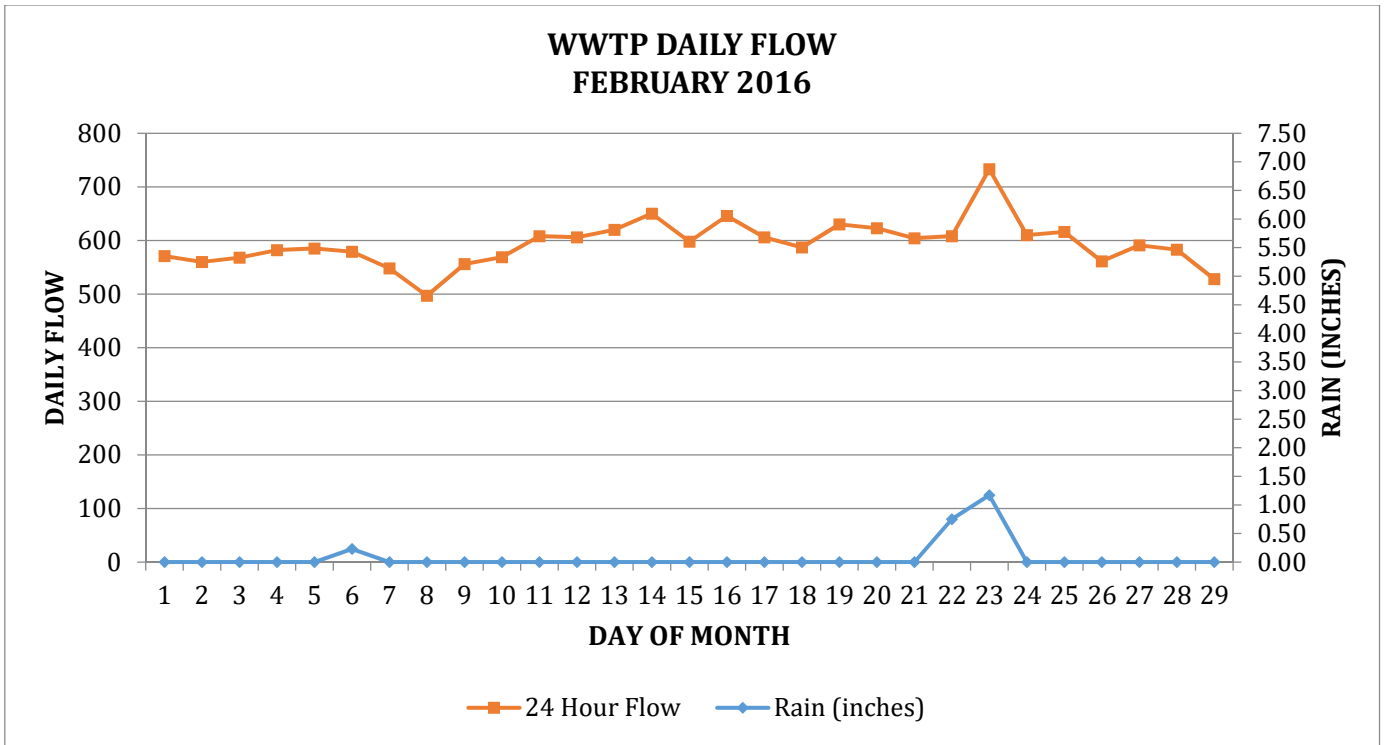
The water loss for the month of February as 7.31%. The chart below compares the loss rate to previous years.



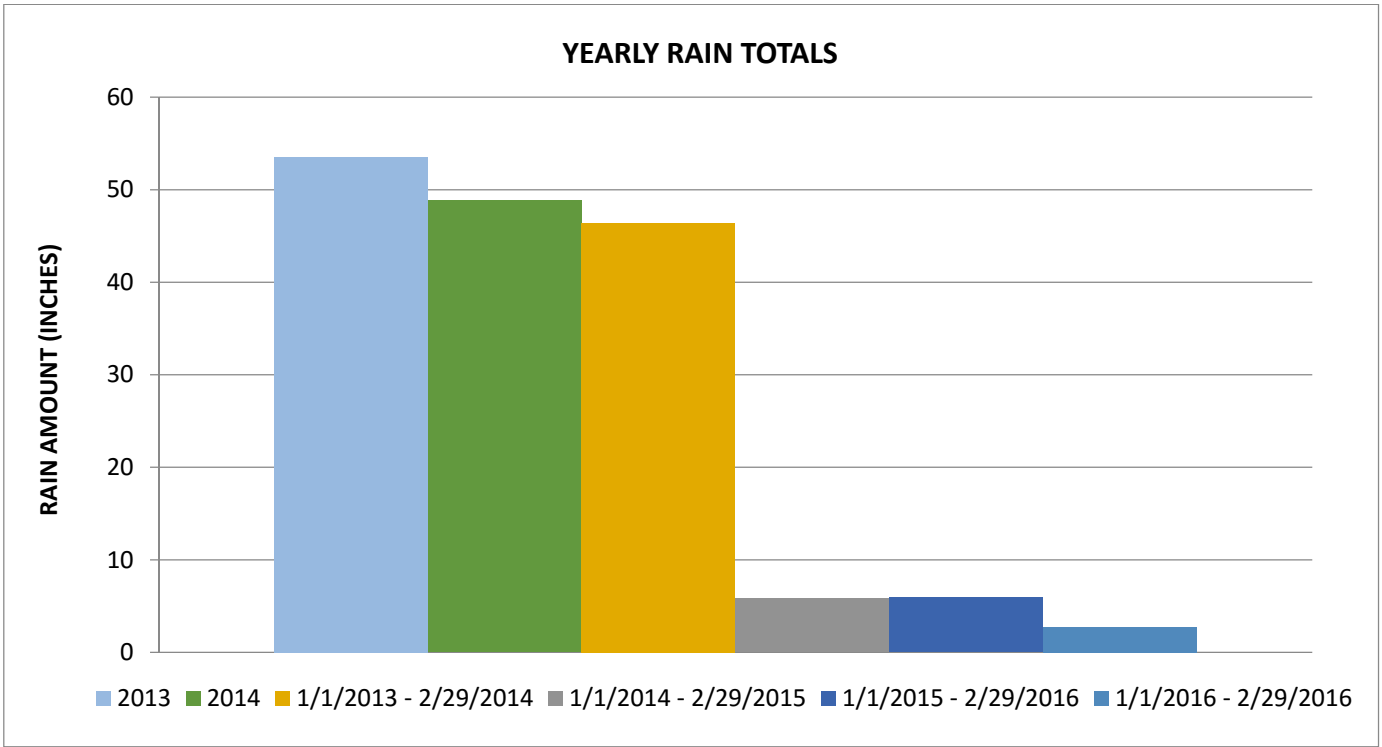
The next chart compares flow data at the wastewater treatment plant to previous years.



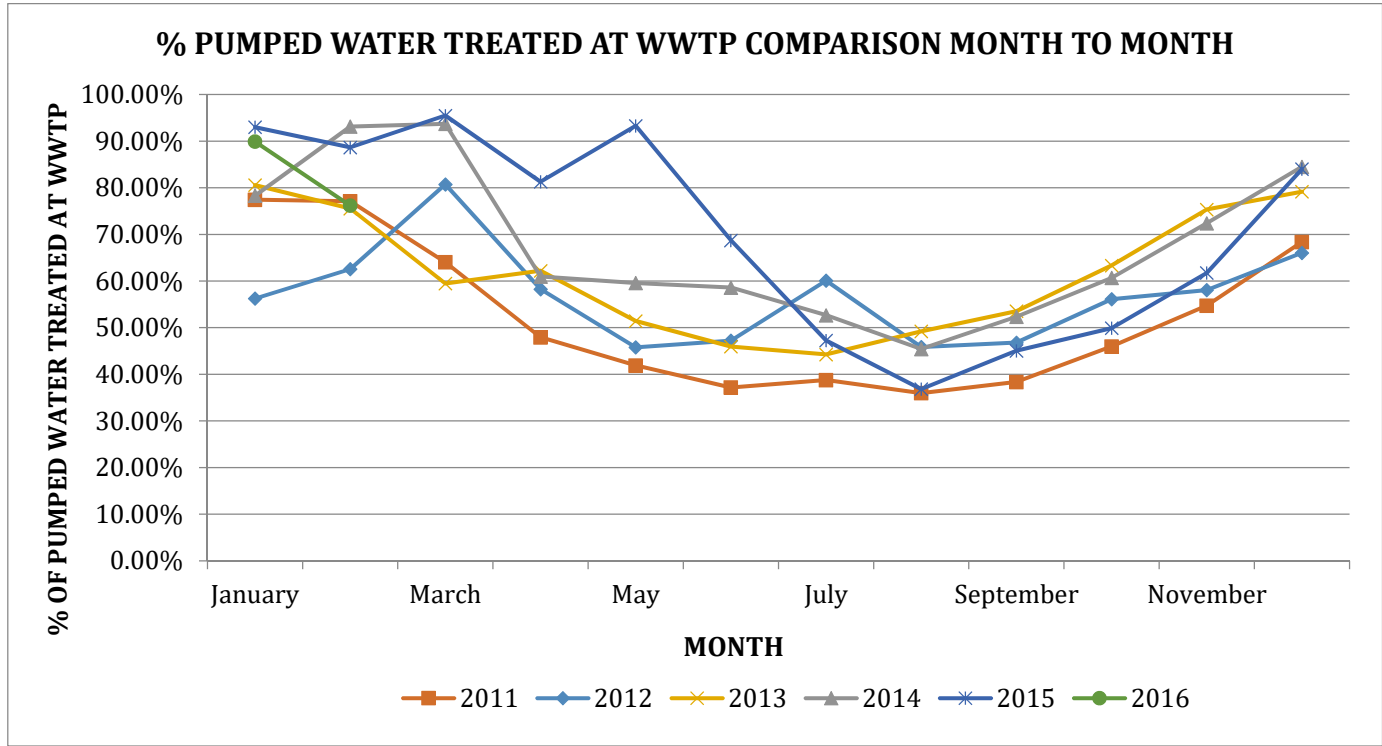
The City's wastewater treatment plant flowed 17.2 million gallons this month for an average of 615,107 gallons per day. Through the year, the City has treated 35.3 million gallons. The chart below shows the daily flow at the treatment plant and daily rainfall.



Through February 29th the City has registered 4.9 inches of rain at the treatment plant compared to 5.91 and 5.82 inches in previous years. The next chart summarizes rainfall from previous years.



The City “recovered” over 76.2% of the water pumped at the treatment plant. The chart below compares the monthly percent recovery to previous years.



SUBMITTED BY: Joseph Peart