

General Manager's Report - October 21, 2013

Water Use

Water pumped from all wells: **6.8** million gallons

Water used by the District: **0.1** million gallons

Water used to backwash filters: **0.2** million gallons

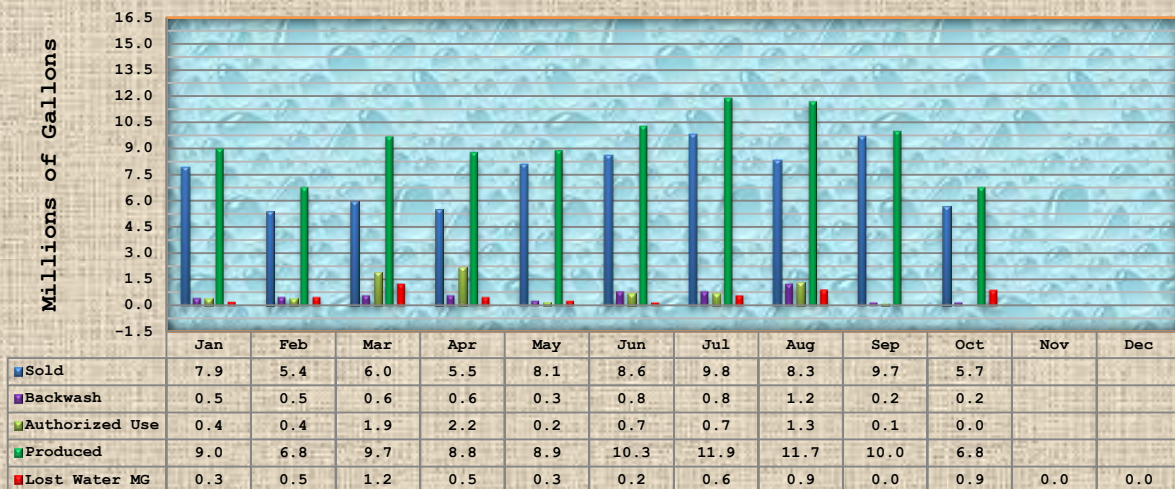
Water sold: **5.7** million gallons

Water lost to leaks: **0.9** million gallons

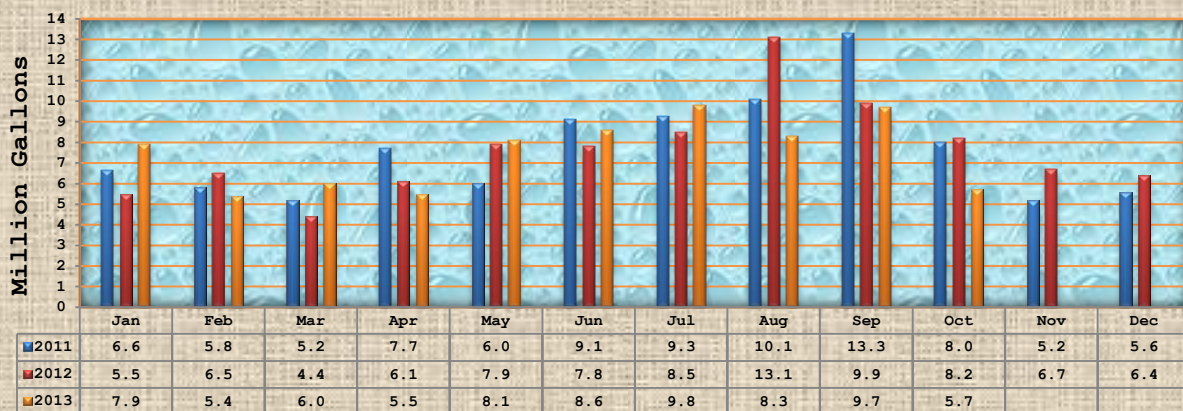


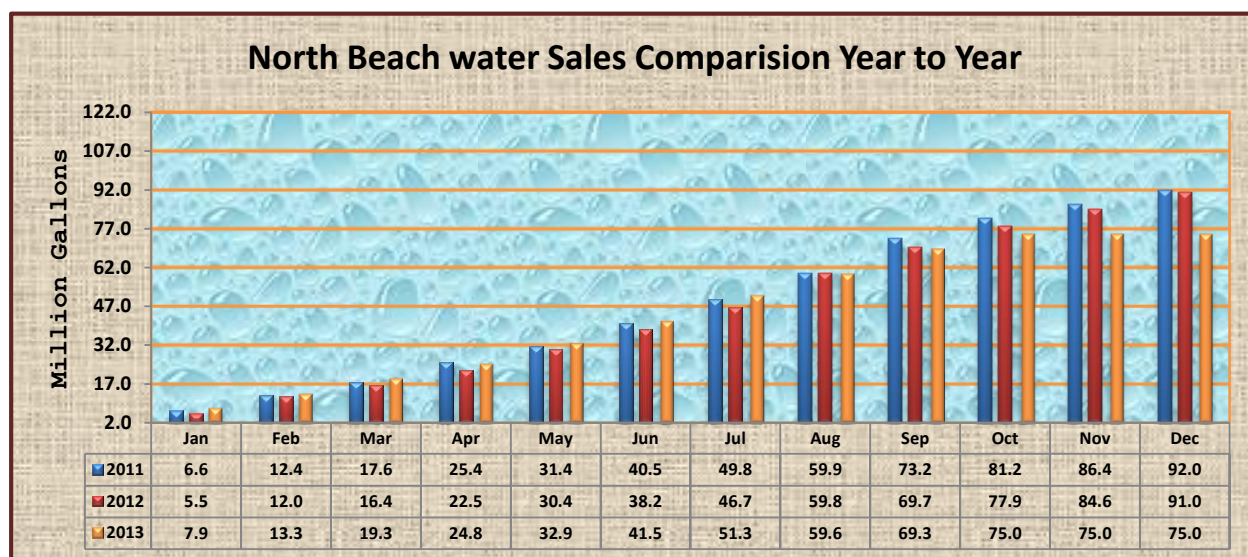
Great Egret
Common to wetlands on
the Peninsula

2012 Monthly Water Reconciliation



Water Sales Comparison Month to Month

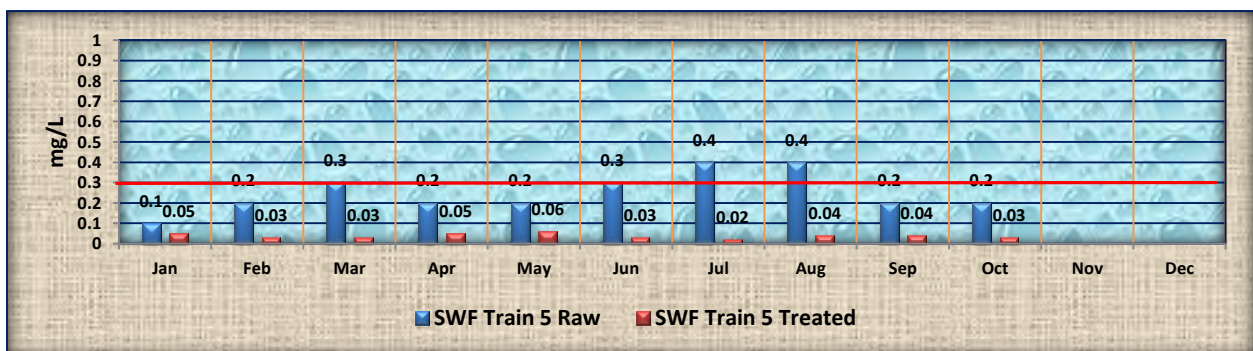
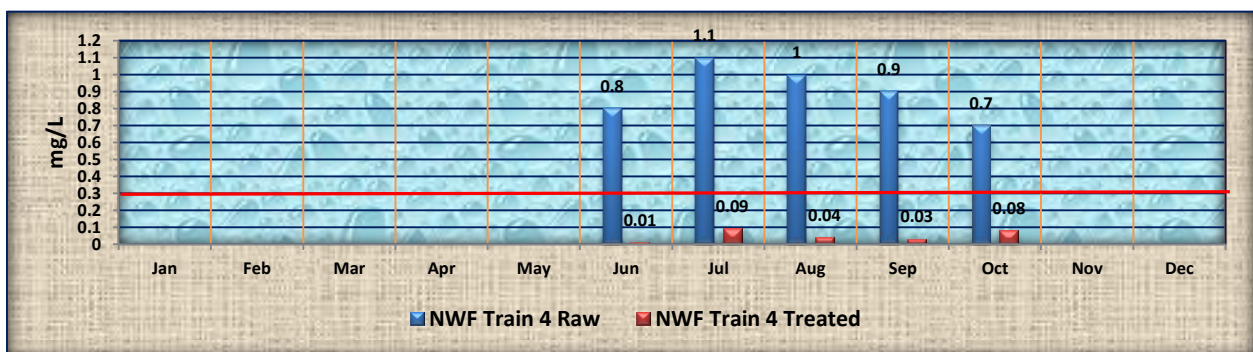
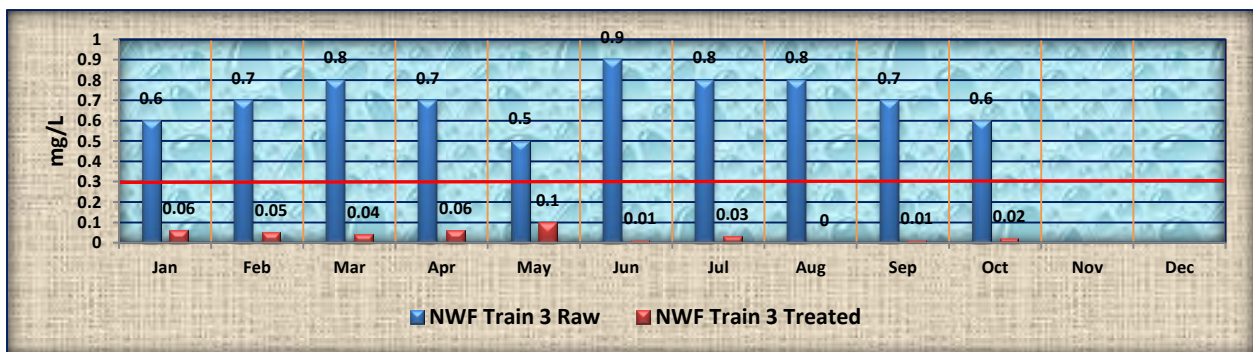
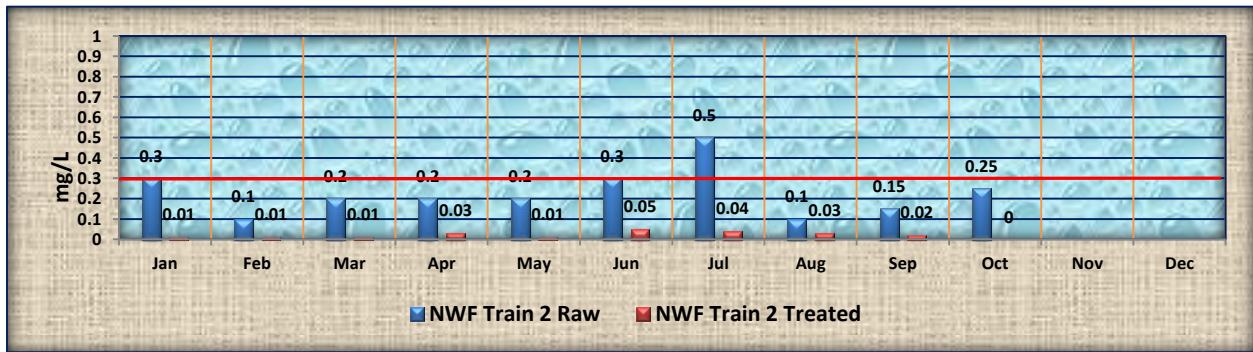
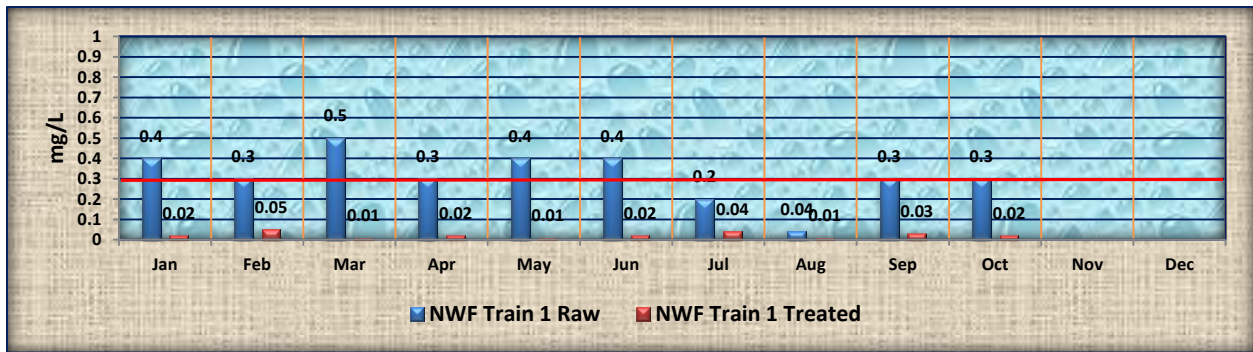


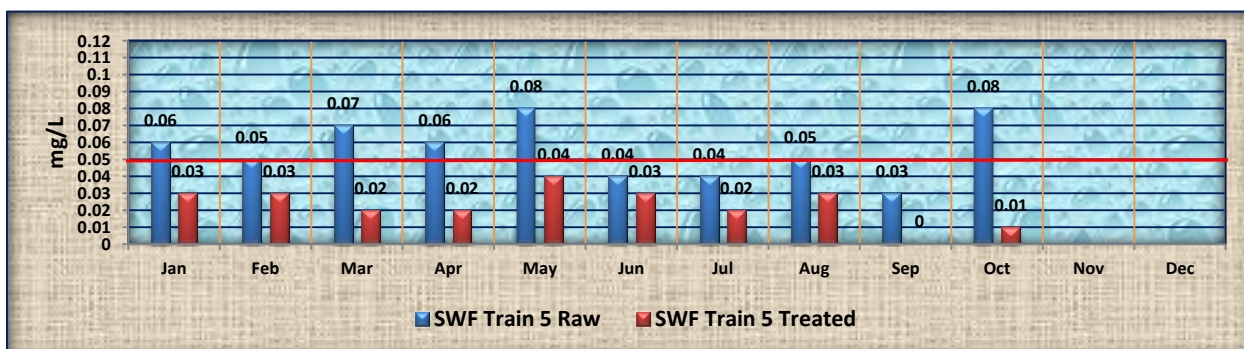
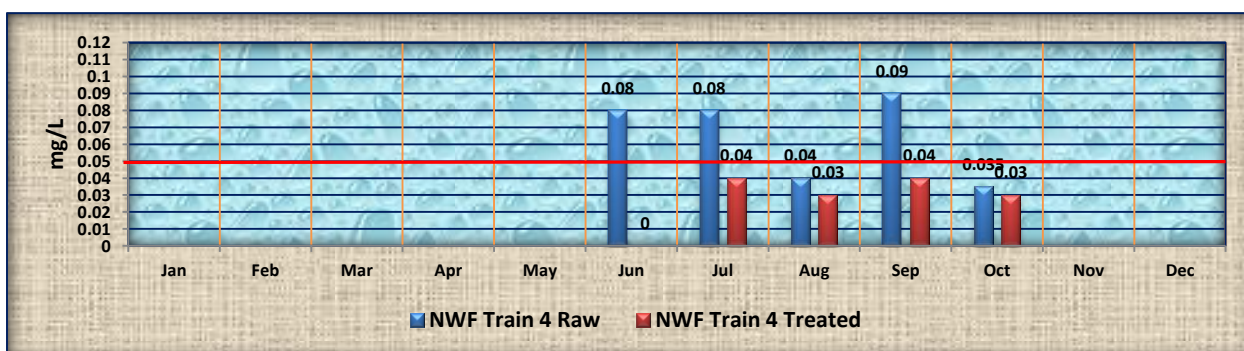
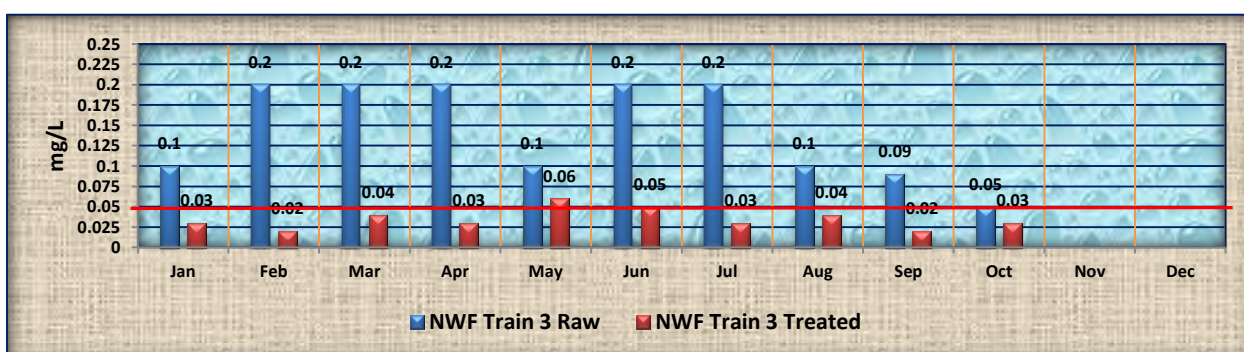
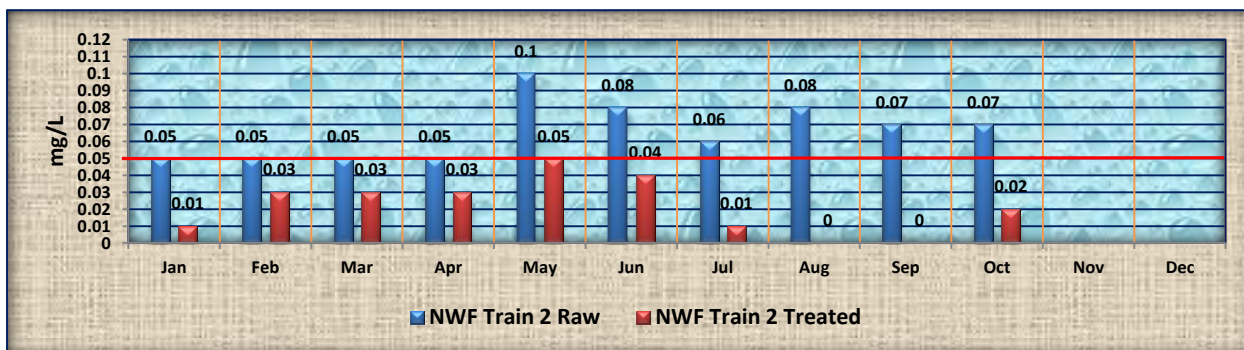
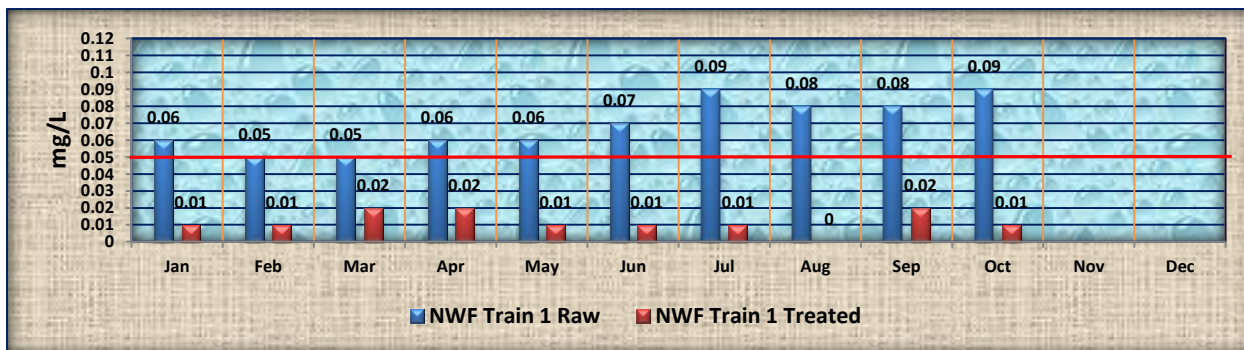


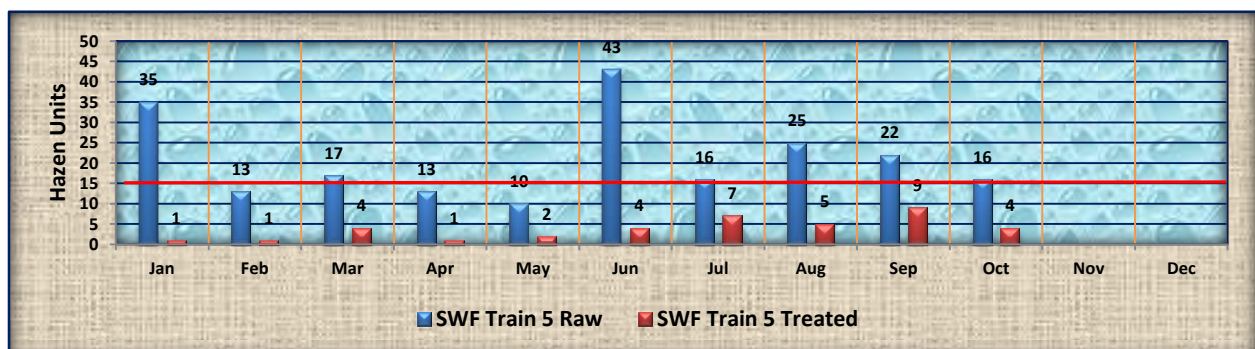
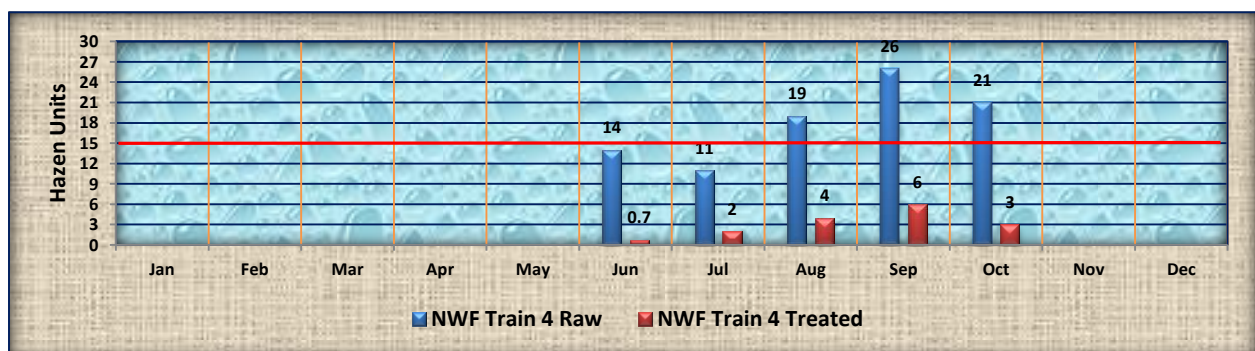
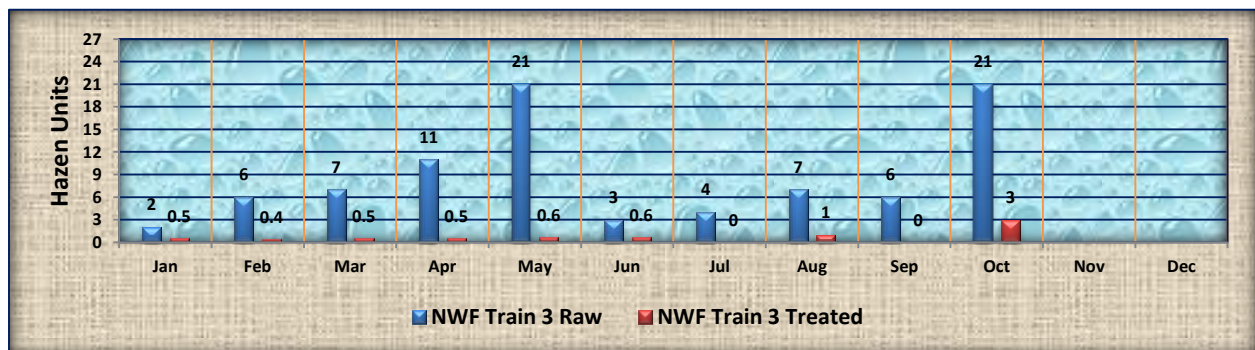
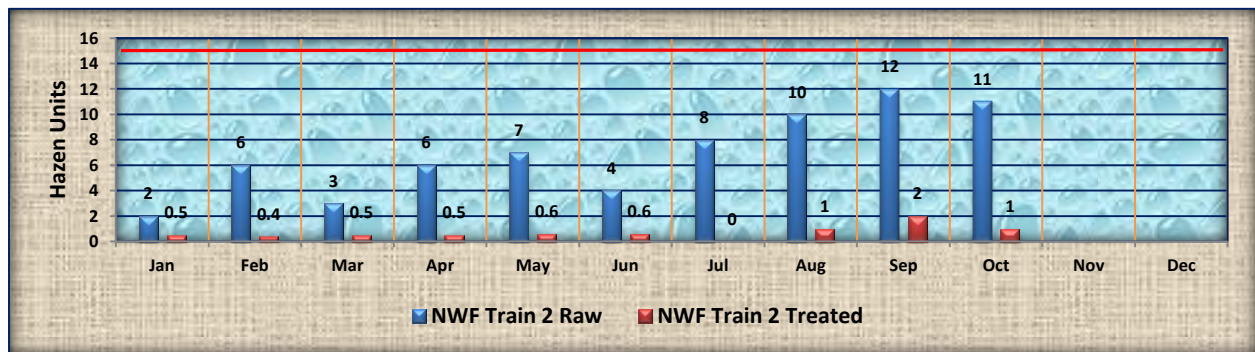
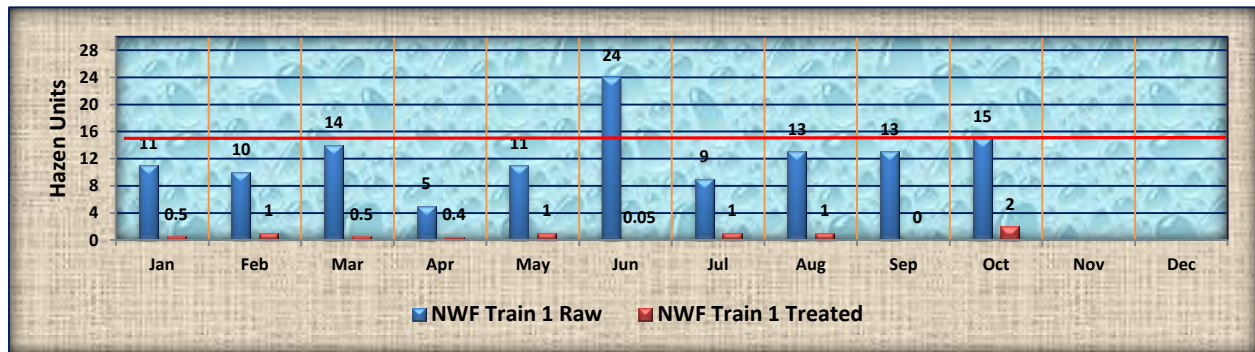
Water Quality Report:

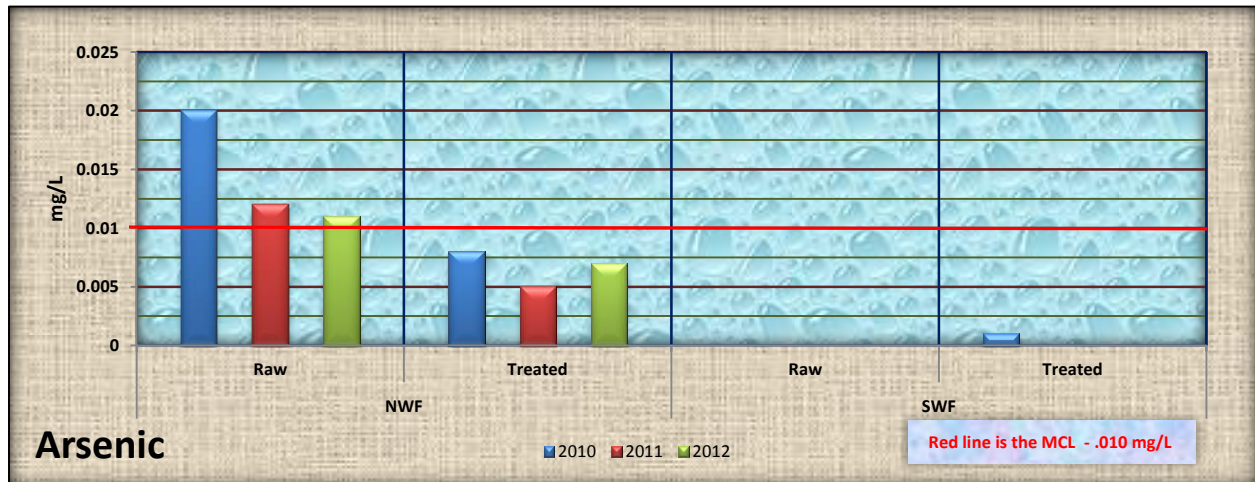
We test water samples weekly. Three of the tests we do weekly indicate how well our water treatment plant is operating. The treatment system is designed to reduce iron, manganese, and color. The treatment plant also reduces arsenic but we do not test for this contaminant in-house. Testing for arsenic requires sophisticated analytical equipment and training our staff does not have. The DOH requires we test for arsenic once every three years (we test annually). Test results for arsenic in treated water are consistently below the MCL.

Excessive iron, manganese, and color can lead to low water quality in the distribution system that will result in increased water quality complaints. Below I have included charts that will show the average raw water and treated water for iron, manganese, and color.









Water Quality:

North Beach Water District collected and submitted five (5) compliance coliform bacteria water samples in October, 2013. All water samples tested negative for coliform bacteria presence.

The District received no water quality calls in October, 2013.

Wiegardt Property Purchase:

The land segregation is complete. The parcel is 11.01 acres. The purchase and sales agreement stated the District would pay \$11,000 per acre for the land based on the size of the parcel after segregation. The sales price for the property is \$121,100. The closing will take place on Friday November, 22 2013 at First American Title in Long Beach Washington.

DWSRF Projects:

Project 129 - Supply and Treatment Project. The Change Order for the work was approved at the October Board Meeting. Pacific County has taken more than three weeks to issue a permit for the clearing of sites for well #2 and Well #3.

Fund Beginning Balance	Funds Expended	Fund Balance	30% Forgiveness-to-Date Earned
\$2,190,631.00	\$117,047.73	\$2,073,583.27	\$35,114.32

Project 121 - Water Main Project. Big River Excavating of Astoria Oregon was the lowest responsible and responsive bidder. Mike Johnson from Gray and Osborne recommended the

District award the bid and contract to Big River. A resolution to award the bid and contract will be considered by the Board at their November regular meeting.

Fund Beginning Balance	Funds Expended	Fund Balance
\$891,123.00	\$33,005.04	\$858,117.96

Water Revenue Bond Project Fund:

The water revenue bond project fund was created to fund three separate expenses. The first was to purchase the Wiegardt property to locate the new well field. The second was to build an equipment building to house the District's vehicles and equipment. The third is to purchase or build a business office for the District. Currently the only expense has been to hire an architect to perform a feasibility study on concerning the equipment building and office.

Fund Beginning Balance	Funds Expended	Fund Balance
\$1,162,392.64	\$-0-	\$1,162,392.64

227th Lane Customer Generated Infrastructure:

Tom Frare has completed the engineering work on the 227th CGI Lane Water Main Extension Project. I am working on a bid packet and will request quotes from the small works roster in late November or early December.

245th Street Water Main Loop Project:

The First stage of the project is complete. Gray and Osborne is preparing drawings and specifications to connect this project at SR 103 and U Street. I will solicit bids for that work from our small works rooster. The Board will award the project after all bids have been received and evaluated.

Safety Meeting Minutes:

North Beach Water District staff had their monthly Safety meeting on the first Monday of the month.

Surfside Water System:

Please see attached report.

End of Report

SURFSIDE HOMEOWNERS ASSOCIATION

WATER SYSTEM REPORT

OCTOBER 2013



Great Egret
Common to wetlands on the
Peninsula

Report on Water System Activities for October 2013

Water Production October 2013:

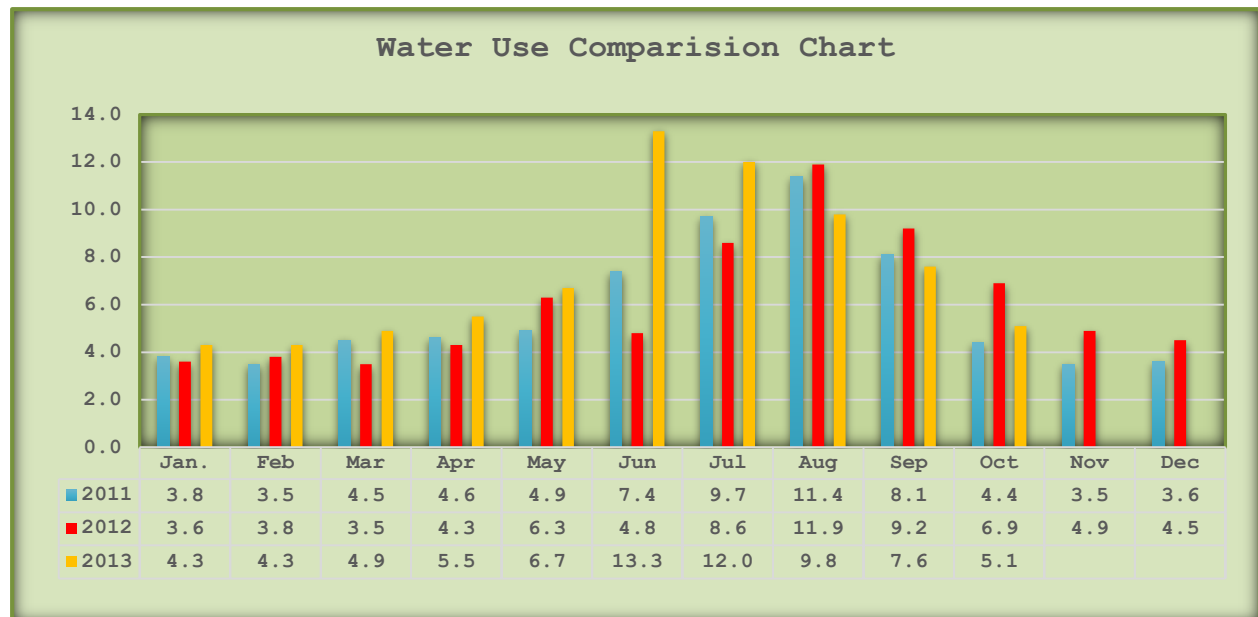
Pumped 5.0 million gallons from wells

Treated 4.6 million gallons

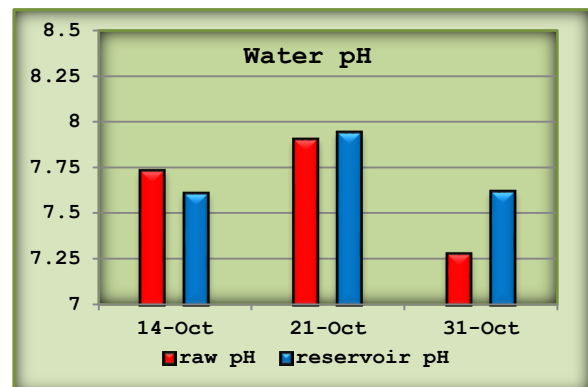
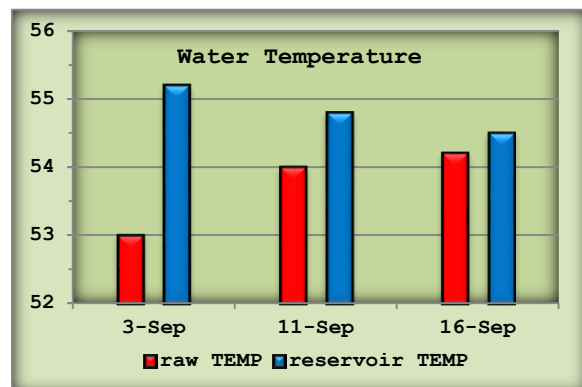
Used 0.5 million gallons backwashing filter and flushing water mains

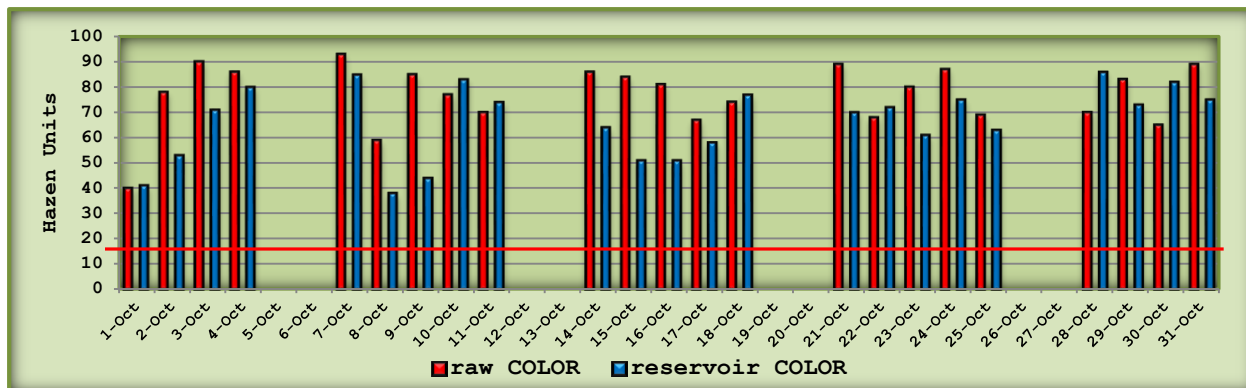
Pumped 4.6 million gallons into the distribution system

All DOH mandated water samples for October were submitted for analysis and tested negative for contaminants.

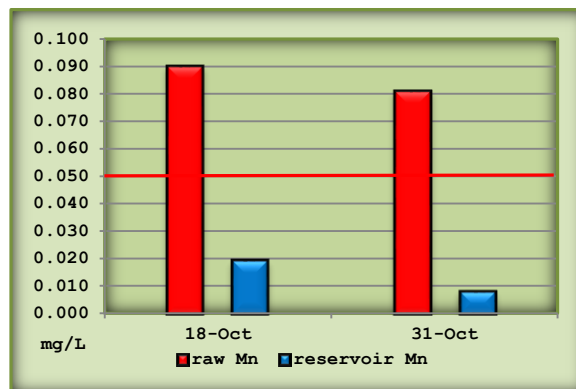
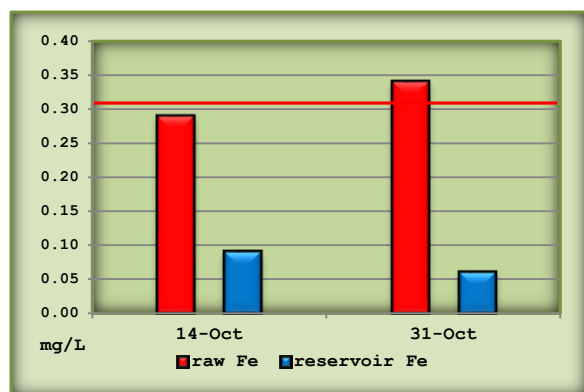


Water Quality for October:



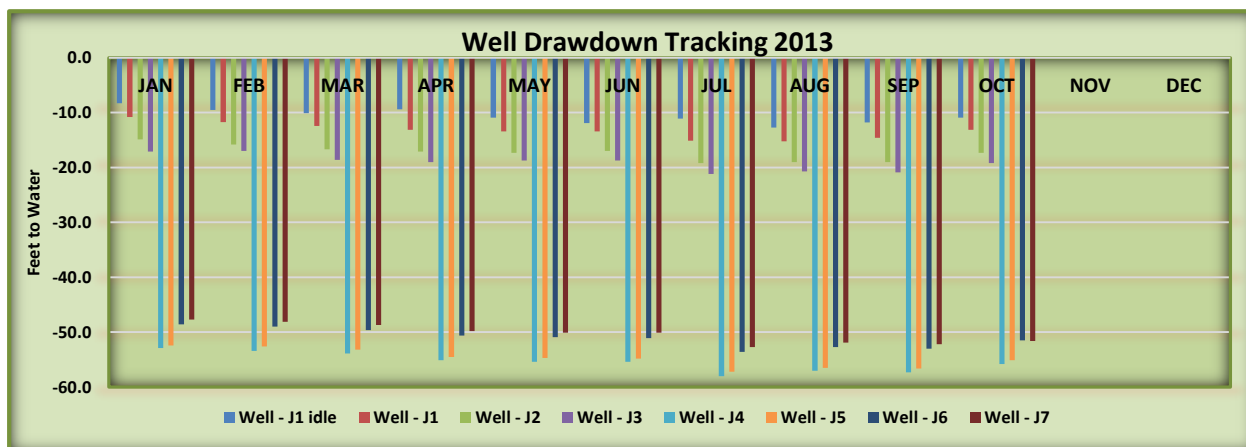


The color of the raw (well) water is regularly above the EPA SMCL of 15hu (Hazen Units). The 30hu level is for aesthetic purposes only. Color in water does not pose a health concern. Washington State has not set an SMCL for color.



The red line in the charts represents the Secondary Maximum Contaminant Level (SMCL), as set by the Environmental Protection Agency (EPA), for iron (Fe) and manganese (Mn). The filters are removing a large percentage of the iron in the raw water and lowering the manganese levels to well below the SMCL.

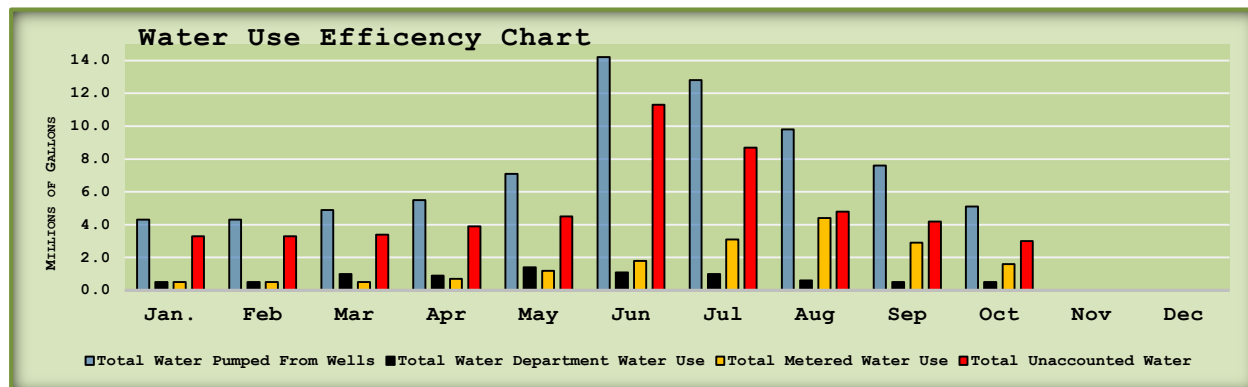
Water Wells:



We track the water levels in the wells during pumping and when wells are idle. J-1 Idle tells us what the static water level is at rest. We then measure the

drawdown of all the wells during pumping cycles. We measure from the top of the casing down to the top of the water on each well. We monitor the wells closely so that we can address any reduced yield before it becomes a major problem.

Water Use Efficiency:

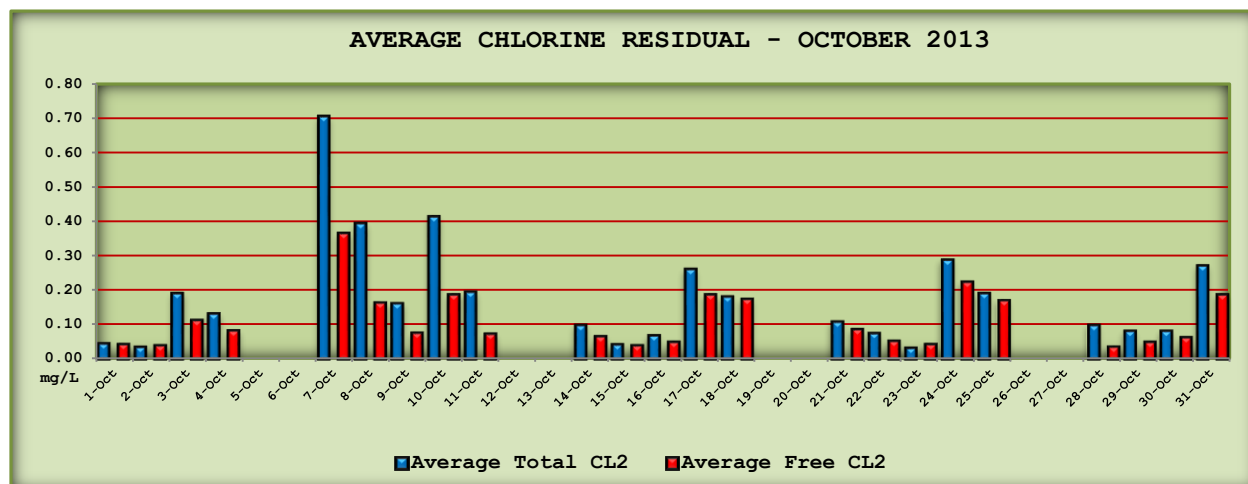


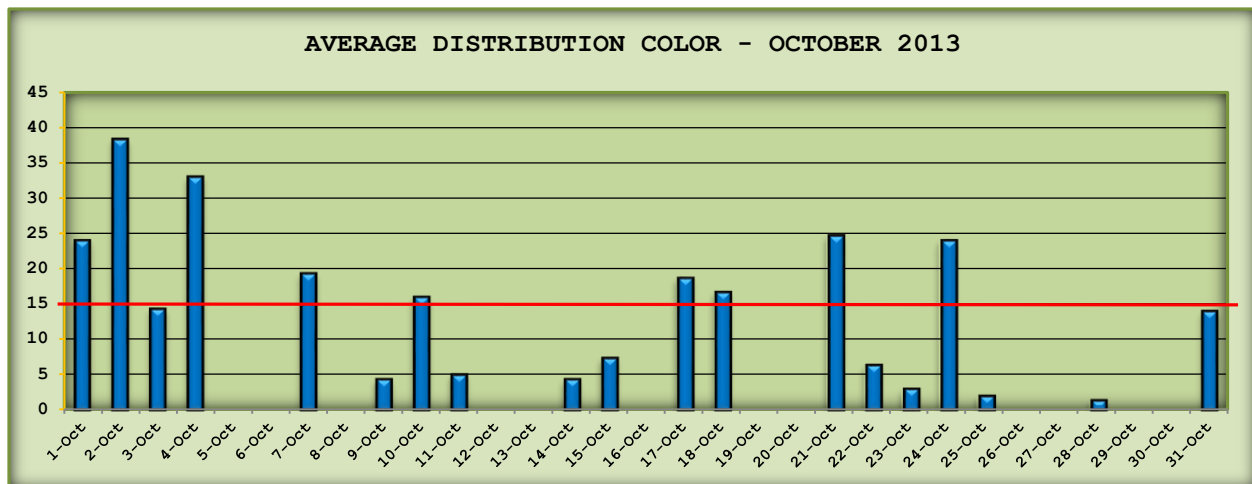
The Total Water Produced is the amount of water pumped from the wells each month. The Authorized Use includes water used to backwash the filters, water used to flush mains, and other uses for maintaining the water system. The Total Metered Water Use is the amount of water that is recorded by our new meters. October's reading included 786 residential service meters and 6 commercial meters.

Water Quality in Distribution:

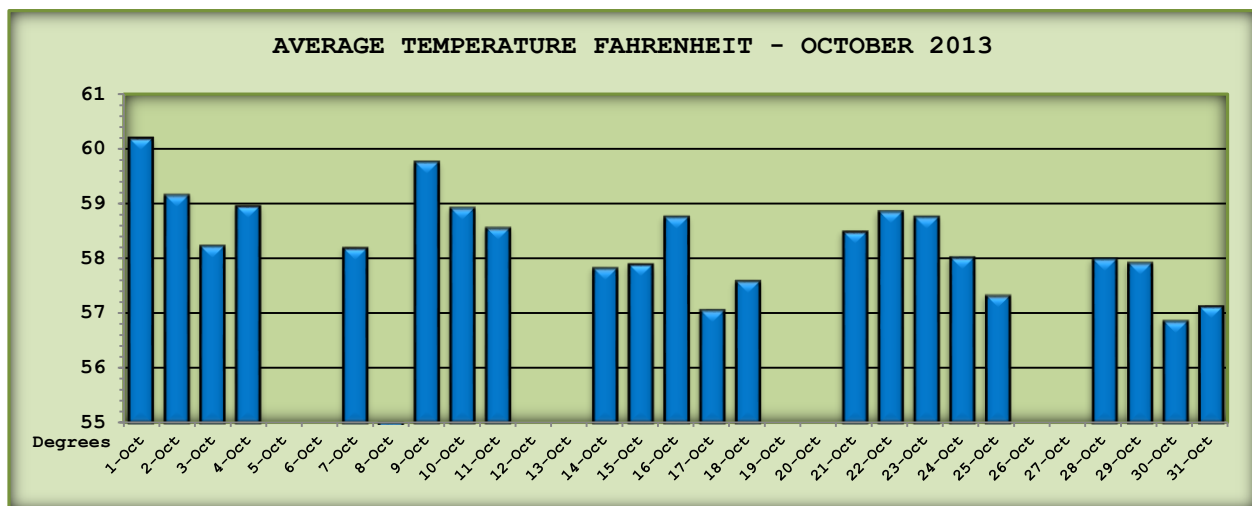
The Water Department regularly tests the water in the distribution system for quality purposes. Chlorine (Cl_2) disinfection effectivity is best when the water is neutral (pH of 7.2). As water becomes more acidic (lower pH) or alkaline (higher pH) more chlorine (Cl_2) will be needed to achieve the same chlorine disinfection effectivity.

The chlorine (Cl_2) residual is being maintained at a low level (± 1 mg/L). We continue to adjust the Cl_2 feed rate to maintain the minimum effective free chlorine residual in the distribution system.





The color in the distribution system is consistently over the 15hu EPA established SMCL. People will start to notice a slight yellow tint to the water when the color is 15hu. Below 15hu it is hard for the eye to see the color. At thirty and above the water color is very noticeable.



The average distribution water temperature is important to monitor. When the water is warm disinfection byproducts will be elevated and chlorine will operate much more efficiently. The average water temperature in October was 56 degrees. The average water temperature in August was 62 degrees and in January was 48 degrees.

Operations and Maintenance:**Main Breaks:**

There was one water main break in October. The break happened on October 3, 2013. The main break was at 306th and L Place. The repair started at 6:00 p.m. and was completed at 9:00 p.m. for a total of 12 man hours.

Services:

The Water Department installed no new services in October.

Water Quality Complaints:

The Water Department responded to two (2) water quality complaints and one service leak in October.

Requests for Water Main Locates:

The Water Department responded to seventeen (17) requests for water main locates in October.

Water Main Replacement (WMR) -

WMR work was on 315th Street and J Place in October. The 2013 WMR project will be complete in November. The Water System Manager prepared a request for quotes for materials for the 2014 WMR project. Bids are due on November 13, 2013. The Board will be asked to award the bid to the lowest responsible and responsive bidder at the November, 2013 Board meeting for delivery the first week of January.

Meter Installation Project -

The 2013 Water Meter Installation Project is complete. The Water System Manager prepared a request for quotes for the 2014 MIP project. Those bid are due on December 13, 2013. The Board will be asked to award the bid to the lowest responsible and responsive bidder at the January, 2014 Board meeting for delivery the first week in March, 2014.

End of Report