

Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

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D. Albrey Arrington, Ph.D., Executive Director

MEMORANDUM

TO: Albrey Arrington, Executive Director

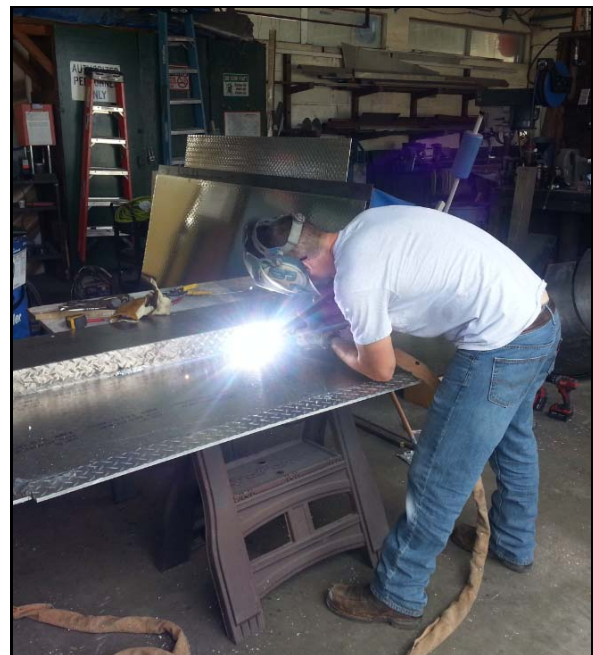
FROM: Tom Vaughn, Director of Operations

DATE: March 8, 2016

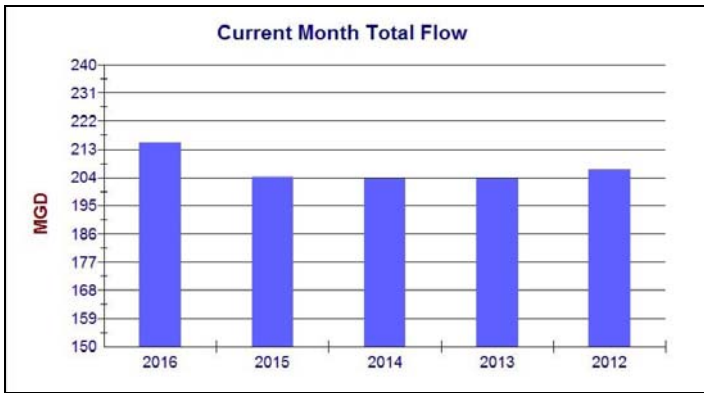
SUBJECT: Operations Department Monthly
Report for February 2016

Treatment Plant Division

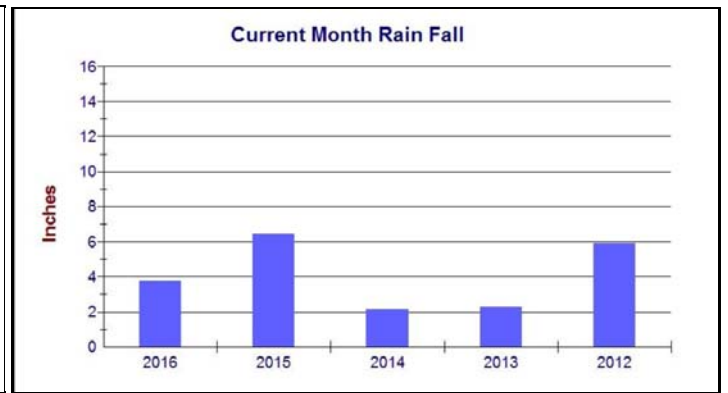
Cross training continues between the shift lead operators and their shift operators as well as between operators in general and the maintenance department. Implementation of shift rotation for the purpose of cross training is in the final stages of development. The goal is to enrich the lives and careers of District employees by providing an environment that is dynamic and rewarding, an environment which adds valuable skills and creates a closely knit community. In return, the District has an employee skilled in multiple disciplines that can act in a swift, confident, and decisive manner.



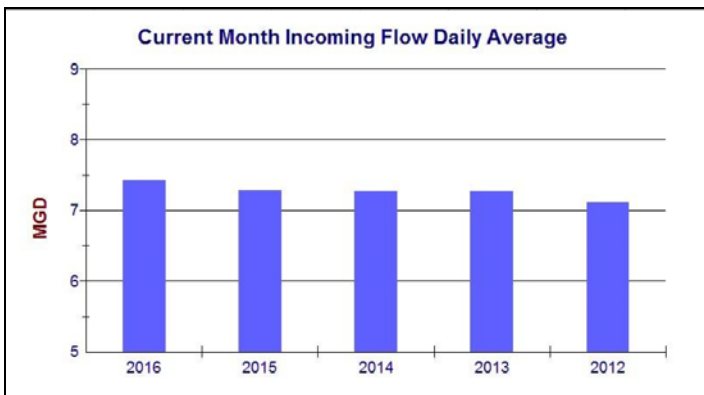
We have had another great month of no Permit exceedances.



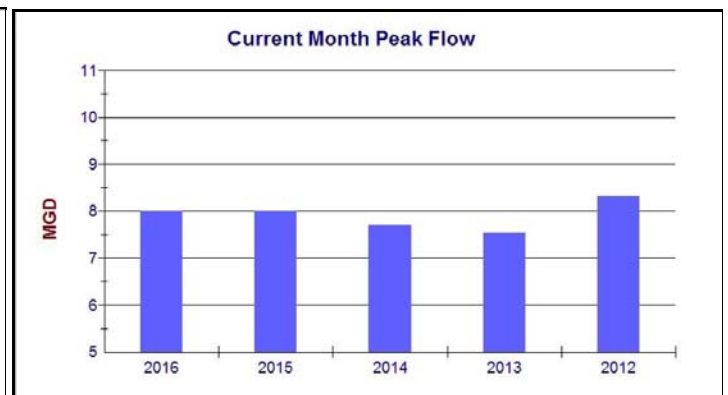
The plant total flow for the month of February was 215.12 million gallons.



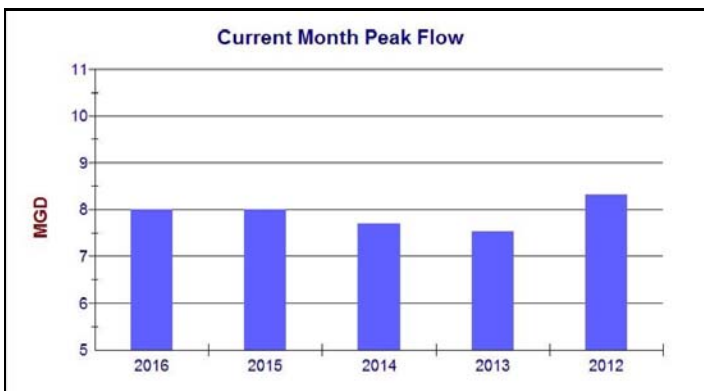
3.77 inches of rainfall were recorded at the plant site during the month of February.



The treatment plant incoming flow for the month of February averaged 7.42 MGD compared to 7.29 MGD one year ago for the same month.

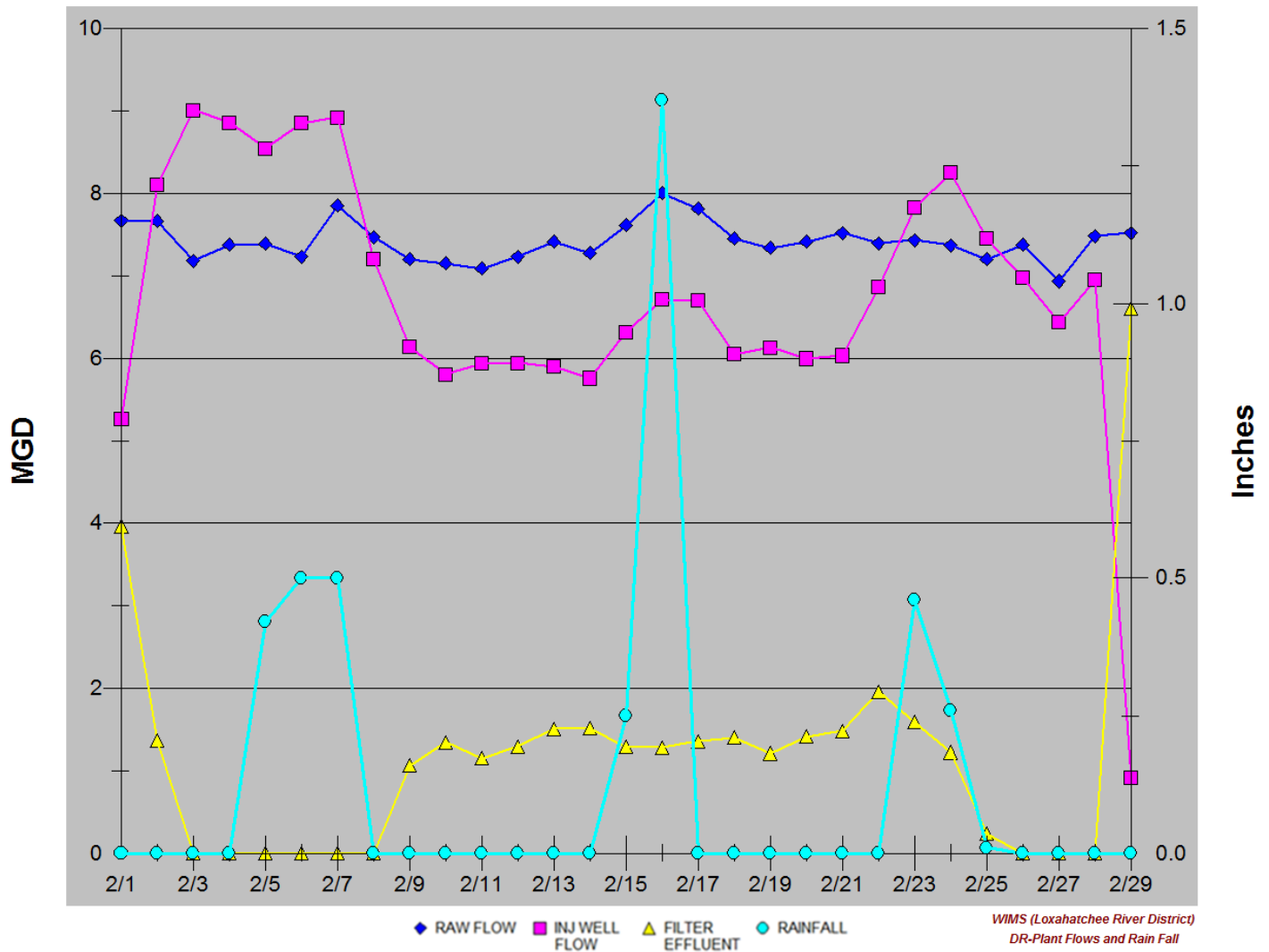


The peak hourly flow rate in February was 4.64 MGD.



The greatest single day average flow in February was 8.00 MGD.

The plant received 215.12 MG of influent flow of which 34.25 million gallons were sent to the IQ storage system where they were dispersed as needed to the various golf courses and the Abacoa development sites. Due to wet weather conditions and 3.77 inches of rain during the month, 195.92 million gallons of blended effluent was diverted to the Injection Well. Overall, 15.92% of incoming flows was recycled for IQ use and the plant delivered 94.32 million gallons of IQ water to the Reuse customers.



For the year 2016, the plant recycled 20.97% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 89.99 million gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

TRAINING. Training for the month of February involved the hazards of hydrogen sulfide gas, commonly referred to as H₂S. H₂S can be found in many locations where District employees may be working such as lift stations or manholes. Hydrogen sulfide is considered a toxic gas. This gas has no color but may have a rotten egg odor in lower concentrations. Higher concentrations of H₂S can quickly block the sense of smell, giving workers a false indication of its presence. Low concentrations of this toxic gas may cause irritation of the eyes, nose, throat and lungs. High concentrations will displace oxygen and settle in the bottom of a confined space creating an IDLH atmosphere. IDLH – Immediately Dangerous to Life and Health atmospheres have the potential to incapacitate a worker in a very short amount of time.

Gas detection monitors are standard equipment during any confined space entry. A gas detector will alert the user with an audible and visual alarm indicating the presence of hydrogen sulfide gas, as well as display a

measurement of its concentration. District employees undergo continuous training on the dangers, detection equipment used, and mitigation techniques associated with hydrogen sulfide gas.



D.E.P. The District held DEP certification testing on the 9th and 10th of February.

Over one hundred people attended the two days of testing in the hopes of advancing their certifications. We had several folks travel from the Florida Keys Aqueduct Authority to attend our latest testing sessions.

The Loxahatchee River District has become a well-known certification testing destination for water and wastewater operators, located here in Florida.



FAU. Microbiology students from the Wilkes Honors College of FAU visited the District's water reclamation facility in an effort to learn more about the biological process of recycling an average of 7 million gallons of water a day, for irrigation purposes. The students were very impressed with the Operations Plant, Wildpine Lab and the District staff's drinking water conservation efforts.

Many students were pleased to learn that the Loxahatchee River District's water treatment facility does not discharge to any area surface waters. Many students were unaware that other water treatment facilities continue to practice the disposal method of surface water discharge. Microbiology students received an in depth tour, and left with a much better understanding of our process and efforts here at the Loxahatchee River District's award winning facility.

Touch-A-Truck. Members of the Collections Crew and Safety & Compliance Dept. attended the Town of Jupiter's "Touch-A-Truck" event on Sunday the 28th. The Loxahatchee River District has attended this event every year, and have had a great time educating and interacting with the public.

The Vac-Con demonstrations included dunking a basketball with the vacuum attachment and clearing a simulated blockage with the high pressure hose. A crane truck was also on display demonstrating its ability to service lift stations and provide assistance during construction projects.

I would like to give a special thanks to our "New Guys" who attended this event for the first time. A wonderful day was had by all and we look forward to attending next year's "Touch-A-Truck" event.



The District has no injuries to report for the month of February.

Collections and Transmissions Division

BELOW. The District's Collection Crew performed the annual inspection and cleaning of manholes and gravity mains at the Roger Dean Stadium prior to "Professional baseball Spring training" and daily games with baseball loving crowds. All lines within the interior and exterior of the Roger Dean complex were found to be flowing properly.



RIGHT. New portable generator sets were delivered and accepted during the reporting month as per the Operations current year budget. The units were inspected and unloaded and the paperwork for title, insurance, and State issued license tags were processed through Operations Administration.



BELOW. For the reporting month, eight (8) new low pressure systems came online in the Low Pressure Pump Station System.

The District's Vac Con Crew cleaned the following lift stations in February 2016: # 172, 24, 159, 9, 154, 83, 175, 193, 53, 224, 249, 52, 76, and 16.

Maintenance

RIGHT. These are the control panel brackets that have been manufactured in the maintenance shop for all of the portable generators. This will allow operators to interchange different control panels with different generators.



Tidbits from Tom

February, 2016 – President's Day



“Change will not come if we wait for some other person or some other time. We are the ones we’ve been waiting for. We are the change that we seek.” – Barack Obama

Presidents’ Day is an American holiday celebrated on the third Monday in February. Originally established in 1885 in recognition of President George Washington, it is still officially called “Washington’s Birthday” by the federal government. Traditionally celebrated on February 22—Washington’s actual day of birth—the holiday became popularly known as Presidents’ Day after it was moved as part of 1971’s Uniform Monday Holiday Act, an attempt to create more three-day weekends for the nation’s workers. While several states still have individual holidays honoring the birthdays of Washington, Abraham Lincoln and other figures, Presidents’ Day is now popularly viewed as a day to celebrate all U.S. presidents past and present.

Presidential Trivia:

Which president said this:

1. “I walk slowly, but I never walk backward.”
 - a. Abraham Lincoln
 - b. George Washington
 - c. Theodore Roosevelt
2. “A man may die, nations may rise, but an idea lives on.”
 - a. George Bush
 - b. John Kennedy
 - c. Bill Clinton
3. “The future doesn’t belong to the fainthearted; it belongs to the brave.”
 - a. Ronald Reagan
 - b. Richard Nixon
 - c. Thomas Jefferson

See ya’ at the Top – (That’s near Cheese Station “N”)

**Tom Vaughn
Director of Operations**