

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

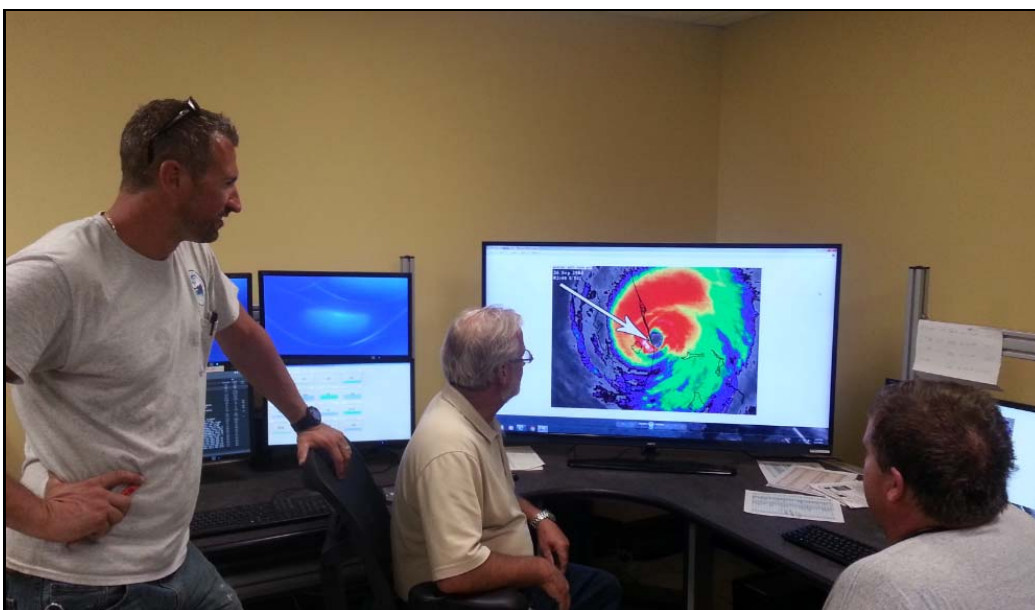
FROM: Tom Vaughn, Director of Operations

DATE: June 7, 2016

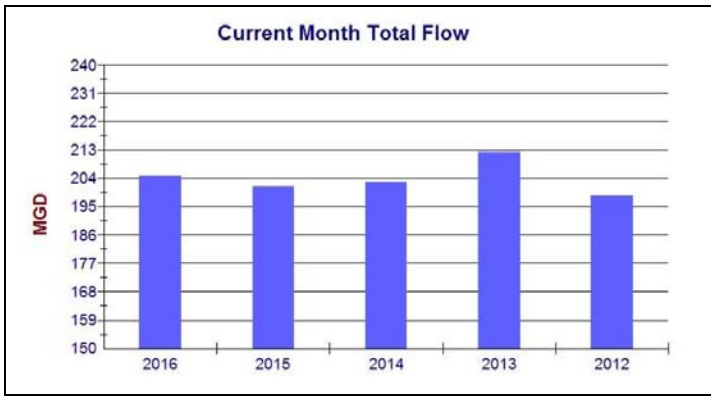
SUBJECT: Operations Department Monthly
Report for May 2016

Treatment Plant Division

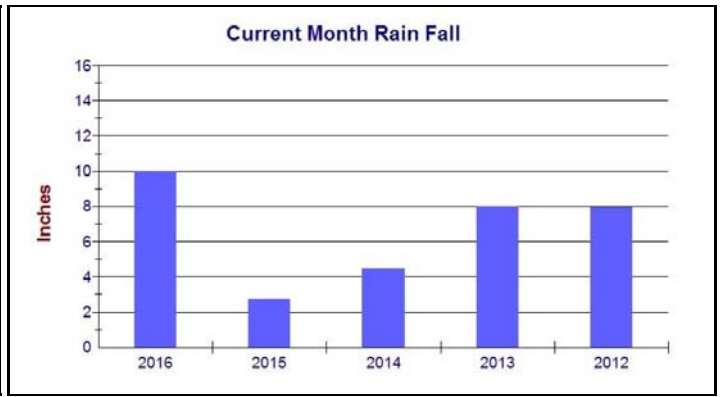
With Hurricane season beginning June 1st, our focus during the month of May was to review our preparedness for a possible severe storm. Operators reviewed best practices and procedures designed to mitigate loss of District assets, operation of the plant during the storm, staying in compliance, and safety procedures. The manual operation of the plant was discussed and drills are presently being scheduled for implementation.



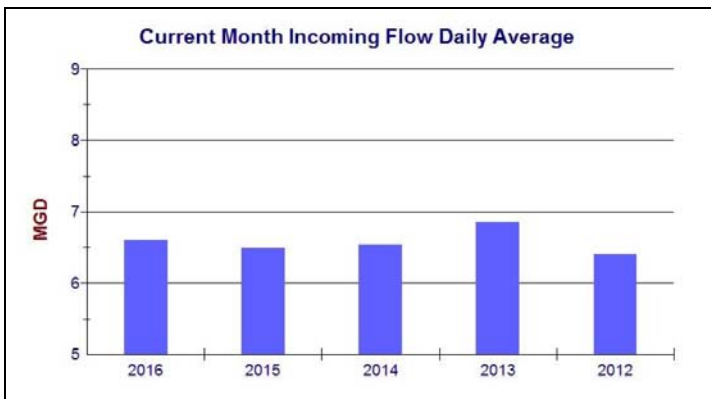
We have had another great month of no Permit exceedances.



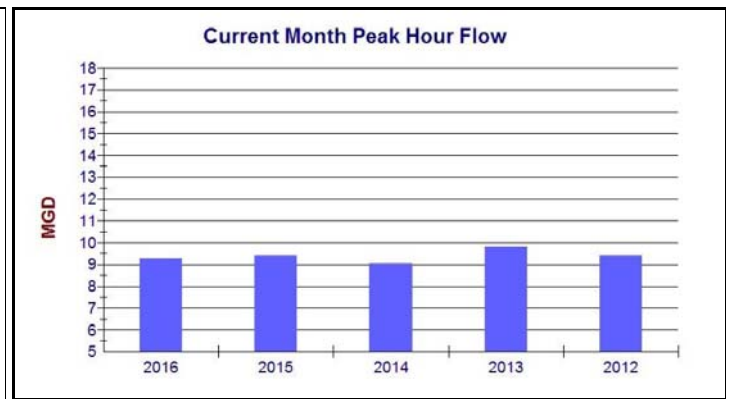
The plant total flow for the month of May was 204.72 million gallons.



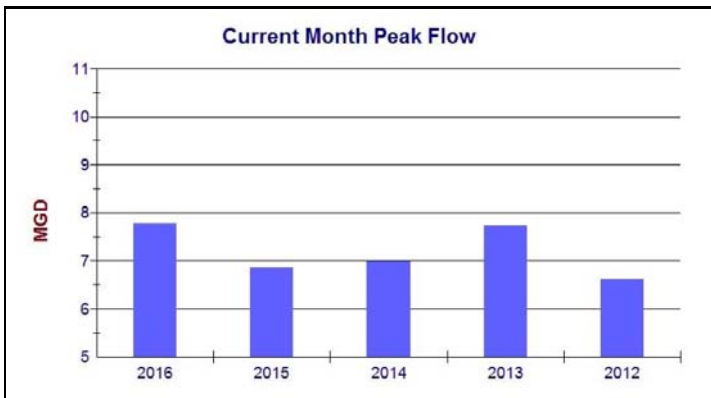
9.99 inches of rainfall were recorded at the plant site during the month of May.



The treatment plant incoming flow for the month of May averaged 6.60 MGD compared to 6.49 MGD one year ago for the same month.

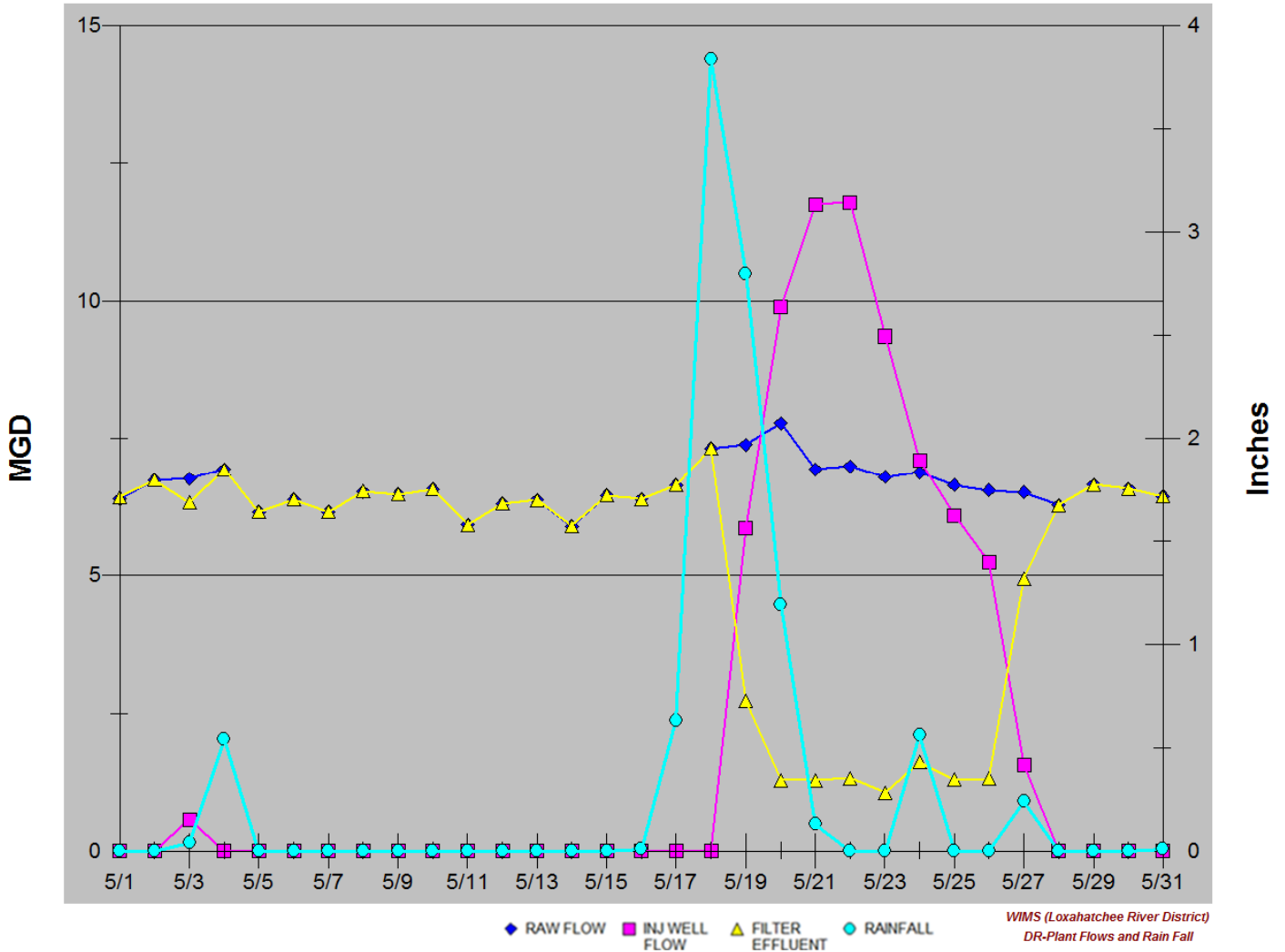


The peak hourly flow rate in May was 9.26 MGD.



The greatest single day average flow in May was 7.77 MGD.

The plant received 204.72 MG of influent flow of which 158.74 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 9.99 inches of rain during the month, 69.20 million gallons of blended effluent was diverted to the Injection Well. Overall, 77.54% of incoming flows was recycled for IQ use and the plant delivered 155.88 million gallons of IQ water to the Reuse customers.



For the year 2016, the plant recycled 49.40% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 537.74 million gallons.

All required monthly reporting has been submitted on time.

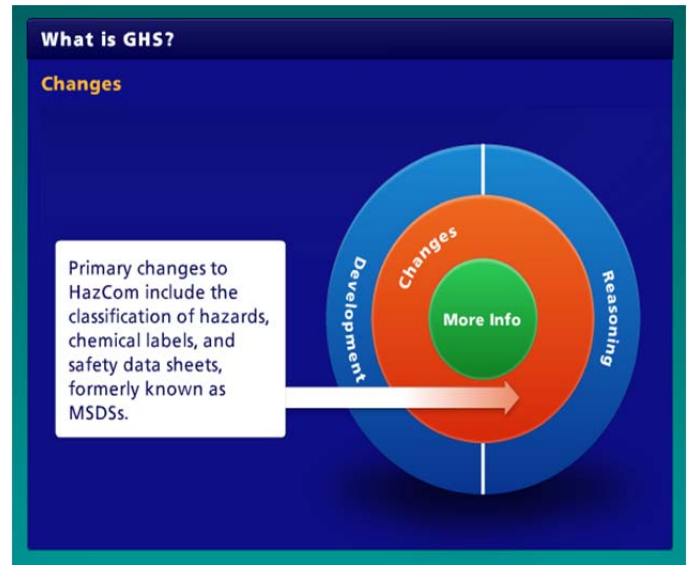
Safety / Compliance

TRAINING. Training for the month of May reviewed changes to the Hazard Communication standard, also known as HAZ-COM.

District employees have been reviewing this material on a frequent basis to recognize and understand changes that are being made to chemical labels.

These changes are to help standardize labeling requirements in a global economy, under the Globally Harmonized System (GHS).

As these changes are implemented by chemical manufacturers and their distributors, District employees will be able to quickly identify them and understand potential hazards.



D.E.P. DEP certification testing was held here in the Operations education room on May 10th and 11th. The District hosted approximately one hundred water and wastewater operators who are in the process of advancing their knowledge and license status.

The District received many compliments about our exceptionally clean facility and cheerful staff from the visitors who attended during the DEP certification test dates.

The annual DEP Pretreatment audit was conducted in May and the District was found to be in full compliance. This annual audit allows the DEP to ensure the District's Discharge Monitoring Reports (DMR), Sewer Use Ordinance (SUO), and Local Limits are effective in protecting the environment and our surrounding community.

SAFETY AWARENESS. The Safety and Compliance Department held a safety awareness and facility educational tour for new interns. Our new additions will be assisting with the Wildpine Lab and River Center locations over the next few months. All the interns who attended were very outgoing and interested in the District's conservation efforts.

Forklift Training. The Safety Council of Palm Beach County held Forklift Operator Training for District employees who were in need of operator certification, or needed to recertify their existing card.

Employees received an extensive classroom lecture from the course instructor, as well as hands on safety evaluations, of the operation of the District's forklift.

All employees who attended received a passing score and obtained a Forklift Operator certification which is valid for three years.



The District also received a visit from Boy Scout Troop #173. This highly decorated troop of young men took a great interest in the inner workings of the plant's treatment process. I was thoroughly amazed at how environmentally aware this group is for their age.

These guys will surely grow up with a protective spirit for our local land and waterways. Their enthusiasm was rivaled only by their energy levels, and I was pleased to have met them all.



The District has zero injuries or lost time to report for the month of May.

Collections and Transmissions Division

BELOW. At plant Master Reclaimed pump station #511 a scheduled removal of a 335 HP submersible pump to have a factory inspection and rebuild (per 20,000 hours or 6 year schedule) was performed. The inspection was performed by Xylem certified pump Technicians. District field crews accomplished the removal of the existing pump, installation of the spare 335 HP pump, performed a startup check, and put it back online to ensure that the station is always at full design capacity.



RIGHT. The Collections crew has been checking and exercising portable equipment on generators and pumps that the field crews have set up on the plant site. This is to ensure that when emergency or scheduled need for equipment arises, we can be confident that all necessary tools will be fully operational.



BELOW. For the reporting month, six (6) new low pressure systems came online in the low pressure pump station system. Also, two (2) of our existing simplex low pressures were converted for duplex low pressure station District standards.

The District's Vac Con Crew cleaned the following lift stations in May 2016; #52- 249- 228- 52- 105

District's Engineering crews performed four (4) one-year Bond inspections; System #26- 8 manholes and 678 LF; System #153- 5 manholes and 612 LF, System #4- 4 manholes and 760 LF; System #175- 9 manholes and 1227 LF.



During the reporting month, there were no major systems or equipment failures in the Collection/Transmission systems that caused emergency or systems to not operate normally.

Maintenance

BELOW. The service water pump and motor have been in service for some times and are currently in need of an inspection. We have the ability to install a standby pump in its place to ensure that the plant has full capacity with little down time while the inspection is being completed.



The Maintenance department crew members are continuing cross training efforts with the Plant Operation's department to further the knowledge and efficiency of all District personnel.

Tidbits from Tom

May, 2016 - Memorial Day



The holiday got started on May 30, 1868, when Union General John A. Logan declared the day an occasion to decorate the graves of Civil War soldiers. Twenty years later, the name was changed to Memorial Day. On May 11, 1950, Congress passed a resolution requesting that the President issue a proclamation calling on Americans to observe each Memorial Day as a day of prayer for permanent peace and designating a period on that day when the people of the United States might unite in prayer. President Richard M. Nixon declared Memorial Day a federal holiday in 1971. Memorial Day is now observed on the last Monday of May. It is an occasion to honor the men and women who died in all wars.

Remembering Those Who Served

It is customary to mark Memorial Day by visiting graveyards and war monuments. One of the biggest Memorial Day traditions is for the President or Vice President to give a speech and lay a wreath on soldiers' graves in the largest national cemetery, Arlington National Cemetery, in Virginia. Most towns have local Memorial Day celebrations. Here are some ways you can honor the men and women who serve our country:

- Put flags or flowers on the graves of men and women who served in wars.
- Fly the U.S. flag at half-staff until noon.
- Visit monuments dedicated to soldiers, sailors and marines.
- Participate in a National Moment of Remembrance at 3 p.m. local time.
- March in a parade.

(TimeforKids.com)

See ya' at the Top – (That's near Cheese Station "N")

**Tom Vaughn
Director of Operations**