

# 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: September 4, 2015

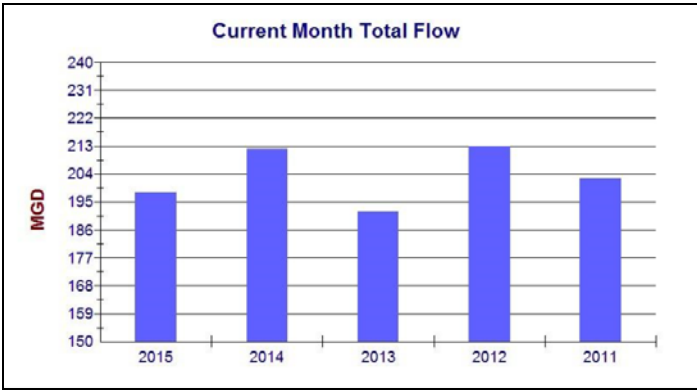
SUBJECT: Operations Department Monthly  
Report for August 2015

### Treatment Plant Division

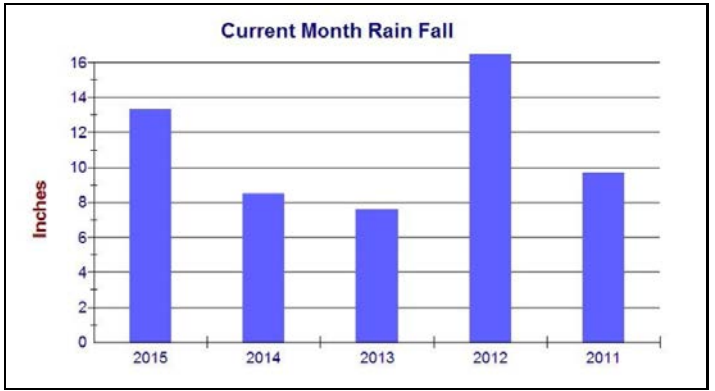
The Operations Department has been conducting in-house training classes to prepare our operators for certification exams and to offer cross-training opportunities for those interested in learning more about the plant.



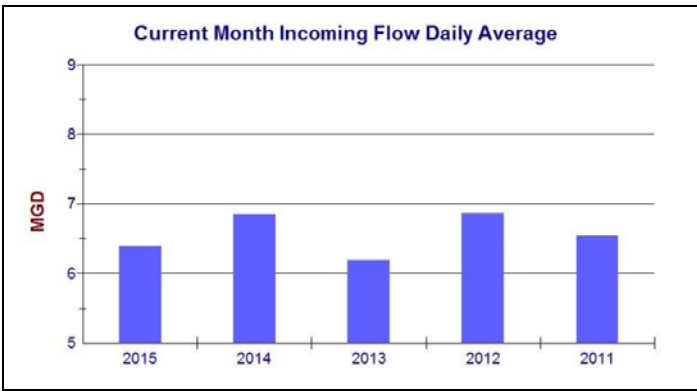
**We have had another great month of no Permit exceedances.**



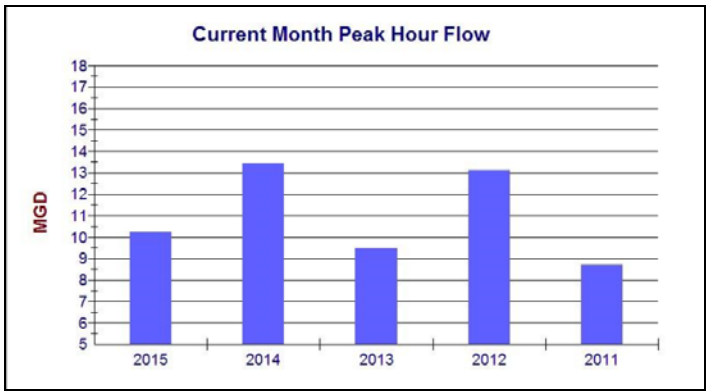
The plant total flow for the month of August was 198.08 million gallons.



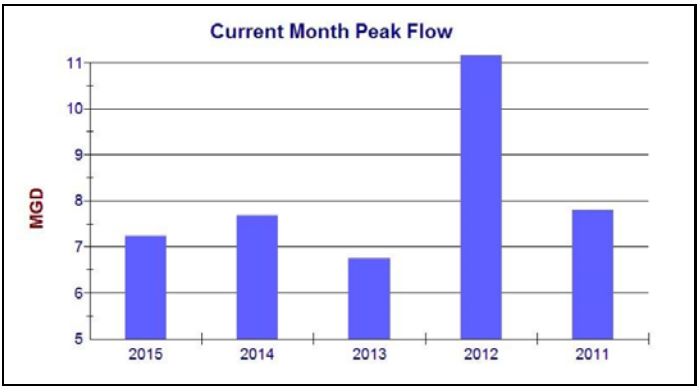
13.3 inches of rainfall were recorded at the plant site during the month of August.



The treatment plant incoming flow for the month of August averaged 6.39 MGD compared to 6.85 MGD one year ago for the same month.

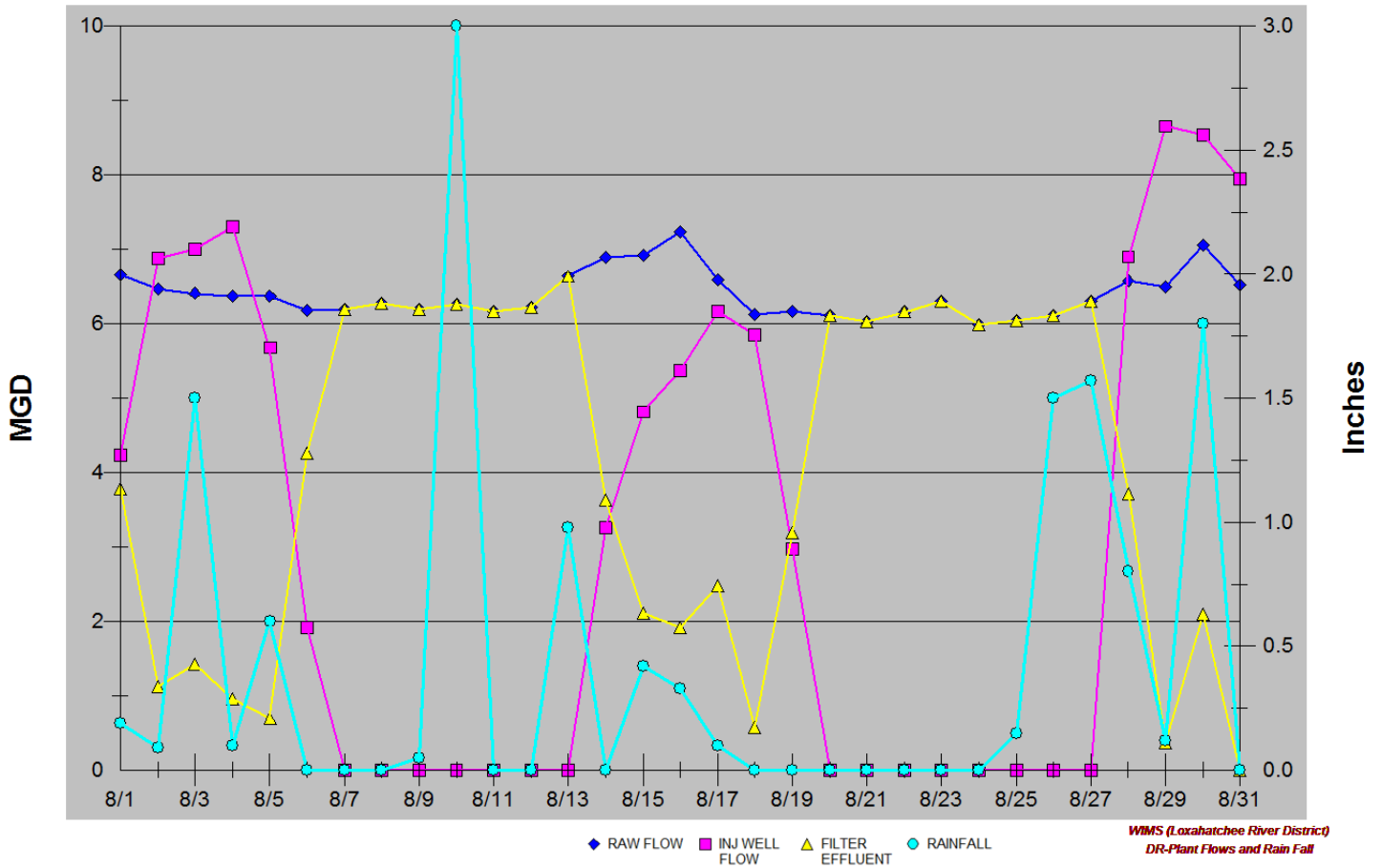


The peak hourly flow rate in August was 10.24 MGD.



The greatest single day average flow in August was 7.23 MGD.

The plant received 198.08 MG of influent flow of which 125.37 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 13.3 inches of rain during the month, 93.5 million gallons of blended effluent was diverted to the Injection Well. Overall, 63.29% of incoming flows was recycled for IQ use and the plant delivered 130 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 73.21% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 1,299.72 million gallons.

All required monthly reporting has been submitted on time.

## Safety / Compliance

**DEP.** The DEP held four separate certification tests here at the District during the month of August.

Two full days of morning and afternoon sessions, accommodated approximately one hundred candidates with an opportunity to advance their certifications.

Testing dates have already been put on the calendar for the month of September.

**FRWA.** The Florida Rural Water Association held its thirty sixth annual Technical and Training Conference in Daytona Beach. Members of the Operations Dept. and Safety and Compliance Dept. attended the. The courses offered process control and troubleshooting, cyber security, lift station maintenance cost reduction and practical water conservation practices.

The conference also hosted over one hundred vendors in the exhibit hall, displaying the latest in technology available to the water and wastewater industry. The networking opportunities alone were a great value. This conference was a success and allowed a broad overview of how others in our industry get the job done.

**SAFETY TRAINING.** Safety training for the month of August included District employees refreshing their knowledge of Lockout / Tagout procedures. Lockout / Tagout procedures entail de-energizing equipment, isolating energy sources, and locking and tagging equipment for safety and informational purposes. By following these important steps, District employees are protected from accidental or automatic startup of equipment during routine maintenance.

A new Lockout / Tagout station was installed for the maintenance crews to use on the plant site. These new tags include each member's name and photo to aid others in knowing exactly who is working on a specific piece of equipment.

**HURRICAN SEASON.** The month of August also provided the opportunity for the District to hone our hurricane procedures. The hurricane plan book was reviewed with all crews involved and equipment was checked and double checked. The storm never appeared on our door step but everyone involved in the preparedness procedures were confident with the results. I'm glad to say this was only a drill, but be assured the District is prepared and confident in their crews and equipment.



## Collections and Transmissions Division



**LEFT.** Pertaining to Budget Lift Station rehabs, the first one of six was started in this reporting month at station #133 in Juno beach.

District Collection crews put a well planned and executed bypass set up in place with planned assistance for a contractor in the scope of this project.

The District crew has responsibly in monitoring and maintaining the bypass throughout station completion and got it back on line in normal operation.

**RIGHT.** The District collection system residential service lateral and gravity mainline refurbishment was achieved. The contractor did not need to perform excavation lining technology. This work was the second phase after a system video inspection with recommended methods for repair within the designated system that was approved by the District Engineer at “Riverside Improvement Area” in the Town of Jupiter’s jurisdiction.

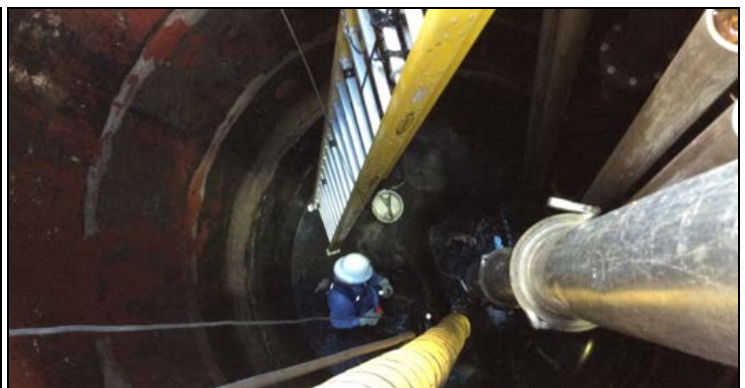
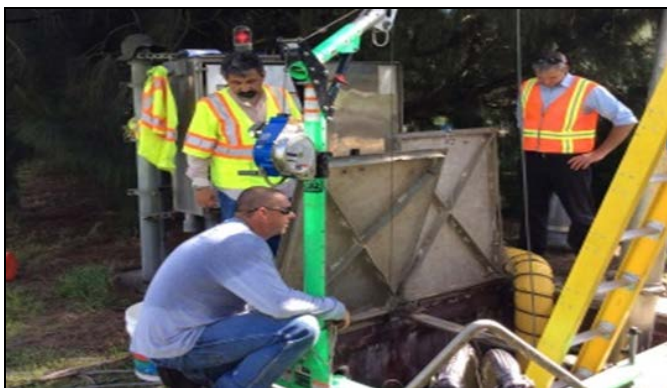


**LEFT.** The District Field/ Plant Electrician-Pump Repair Technician prepared and tested a control panel for Lift Station in the field.

The control panel and electrical disconnect will be installed by the District’s North route crew, the District’s Electrician and the Electrical Contractor.



**BELOW.** The District’s engineering and collections crews performed an inspection of the #206 station wet well. Collections prepared the station for a permitted confined space entry and for a District Inspector to enter the well and complete an inspection list. Entry and inspection went very well, and inspection results were documented by the District’s engineer that was on site during the task.



**RIGHT.** In the Jupiter Hills development, two (2) lift stations, #52 and #59, worked on the process of installing new control panels, electrical disconnects/grounding, and a stantion rack.

All work was performed by District personnel, except for the permitting requirements for commercial power disconnects, city/county inspection, and release for commercial power re-connect.

Station #52 was completed in July's reporting month with the permit closed and FPL power back on.

Station #59 was completed in August's reporting month with the permit closed and FPL power back on.



**BELOW.** For the reporting month, one (1) new Low Pressure System came online in the Low Pressure Pump Station System.

The District's VacCon Crew cleaned the following Lift Stations in August 2015; # 228,252,206,192,291,62,93,83,114,121 and 155

Scheduled inspections and cleanings of the #58 gravity system were performed; 49 manholes and 13,457 lineal feet of gravity main, #94 gravity system; 15 manholes and 3,166 lineal feet of gravity main, and #93; 25 manholes and 6,610 lineal feet of gravity main.

During the reporting month, there was no major system or equipment failure in Field Collection/Transmission systems that caused emergency or for systems to not operate normally.



## Maintenance

**BELOW.** We are installing an Emergency Generator for the Administration building. Electrical wiring is being buried and a generator pad is being installed.

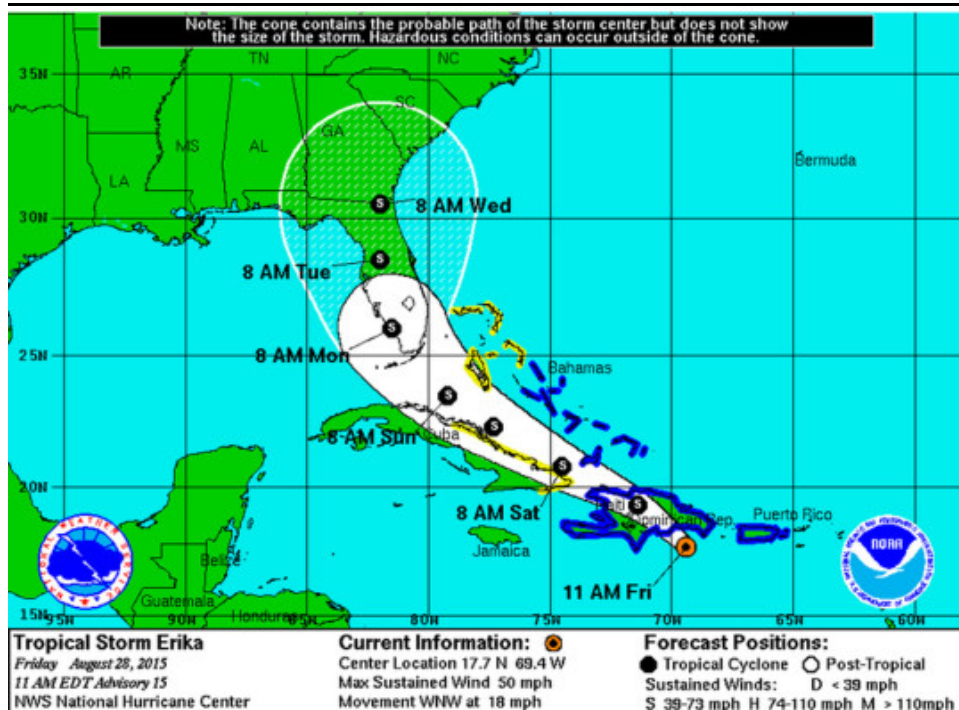


The pad has been poured and the electrical conduit is buried and landscaping restoration is under way.



## Tidbits from Tom

August, 2015 – Hurricane Preparedness



The District underwent an Emergency Conditions event in which all personnel were involved in making preparations for the possibility of a Level 1 Storm that was heading in our direction late August. Although Tropical Storm Erika did not reach our location, it provided an opportunity for new staff to learn and better understand the District's procedures for plant operation during a major storm.

A drill for this type of occasion has been scheduled for May of 2016.

### *Perspective: Perspective*

*There are these two young fish swimming along and they happen to meet an older fish swimming the other way, who nods at them and says, "Morning, boys. How's the water?" And the two young fish swim on for a bit, and then eventually one of them looks over at the other and goes, "What the heck is water?" – David Foster Wallace*

It's all too easy to interpret our daily drudgeries, annoyances and boredoms as personal insults. Left unchecked, this interpretation of the world can and will drive us crazy. The alternative to all of this is to make some semblance of a conscious choice about how to perceive these unconsciously personal sleights brought on by nature of living in a society with other people. If you are able to keep in the back of your mind the idea that maybe, just maybe, you're not the star of your own movie, and are instead sometimes an extra in someone else's movie, you can shift your perspective to the point at which those daily annoyances don't seem so bad after all. – Jon Green

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

**Tom Vaughn**  
**Director of Operations**