

# 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 11, 2015

SUBJECT: Operations Department Monthly  
Report for February 2015

### Treatment Plant Division

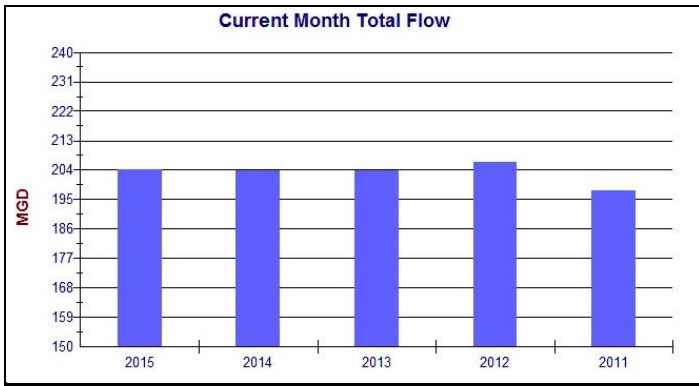
New electrical floor matting was replaced in all electrical control rooms as part of safety and compliance code regulations. The matting insures the safety of field inspection and repair personnel.



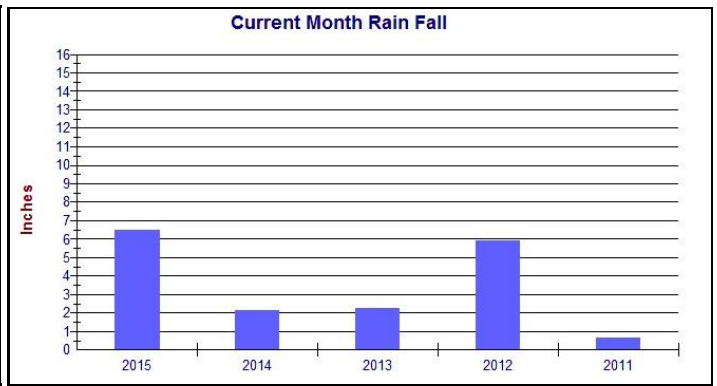
The Chlorine and Blower building's exterior doors are being repainted to prevent further corrosion from weather conditions and to improve plant aesthetics.



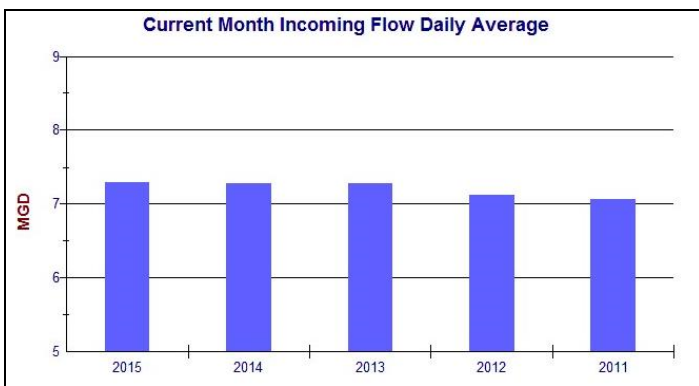
We have had another great month of no Permit exceedances.



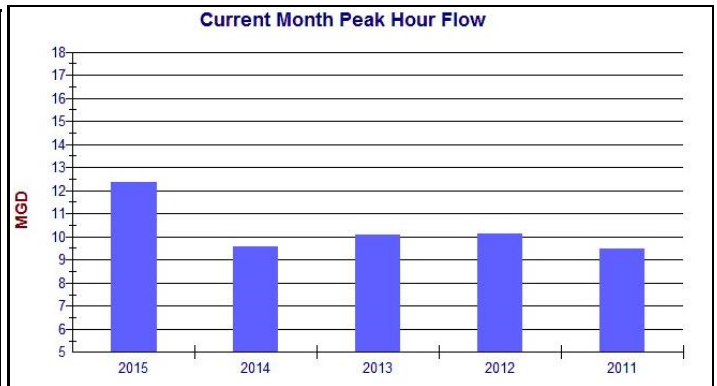
The plant total flow for the month of February was 204.16 million gallons.



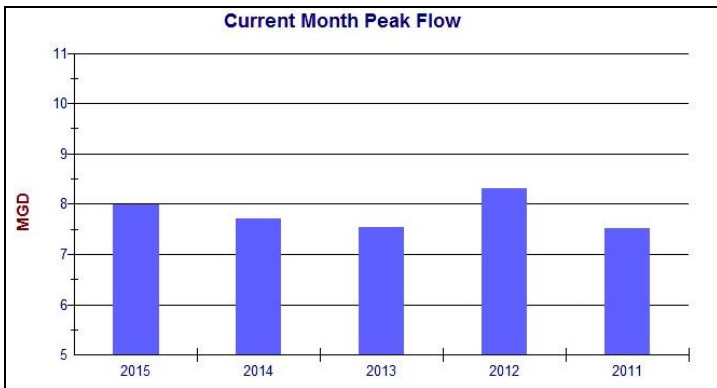
6.47 inches of rainfall were recorded at the plant site during the month of February.



The treatment plant incoming flow for the month of February averaged 7.29 MGD compared to 7.27 MGD one year ago for the same month.

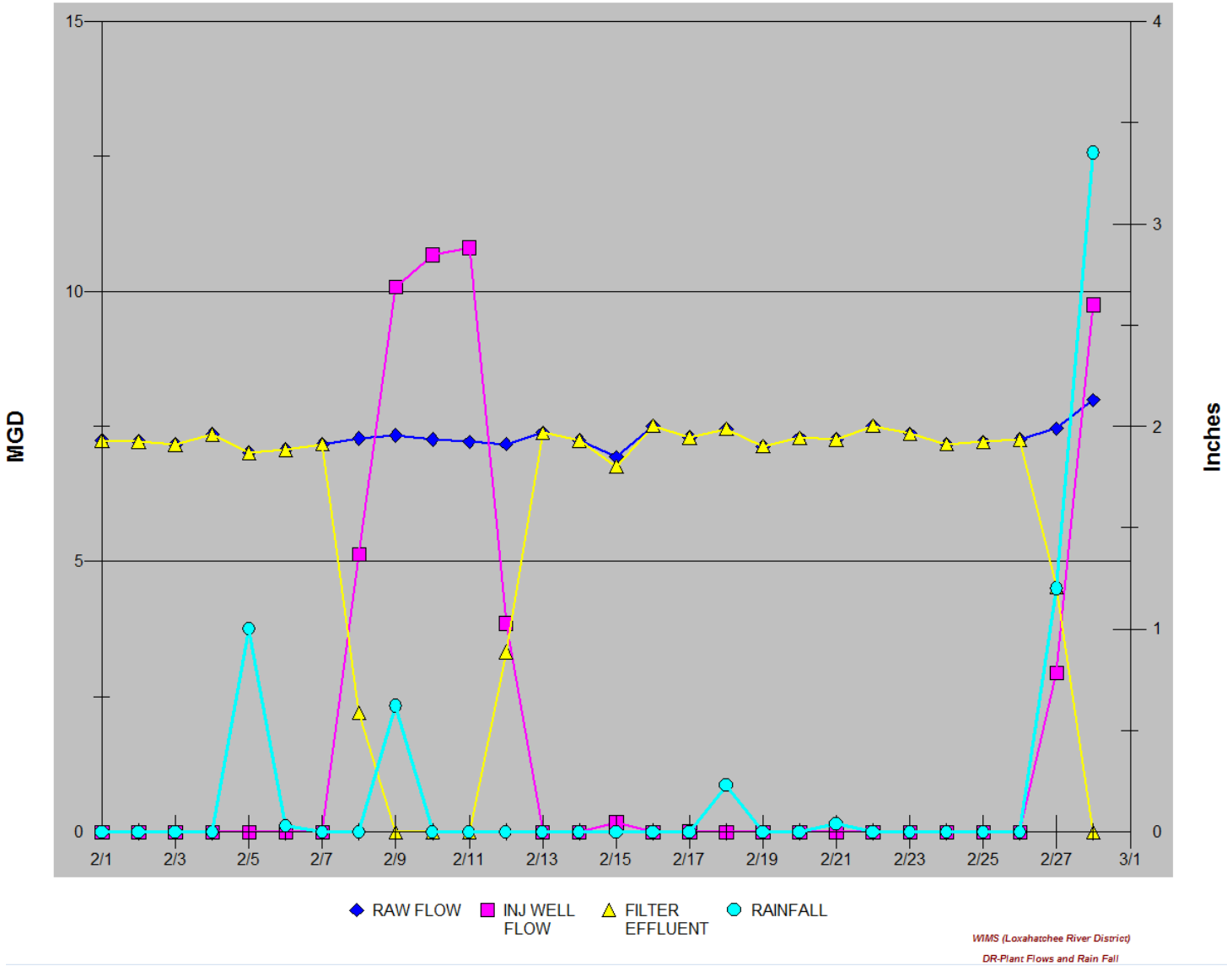


The peak hourly flow rate in February was 12.34 MGD.



The greatest single day average flow in February was 7.99 MGD.

The plant received 204.16 MGD of influent flow of which 162.30 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 6.47 inches of rain during the month, 53.42 million gallons of blended effluent was diverted to the Injection Well. Overall, 79.50% of incoming flows was recycled for IQ use and the plant delivered 150.17 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 65.60% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 286.59 million gallons.

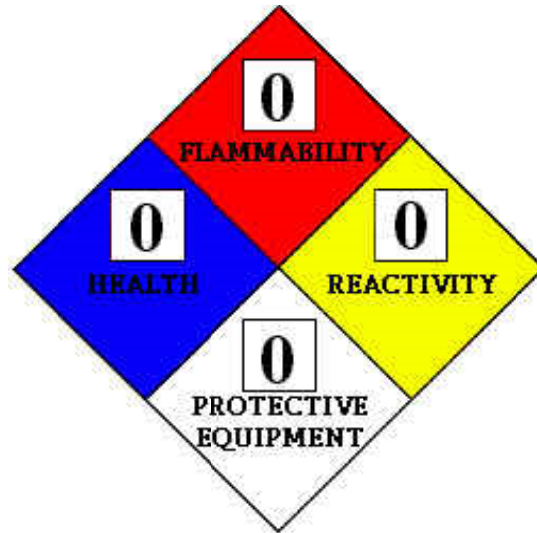
All required monthly reporting has been submitted on time.

## Safety / Compliance

**TRAINING.** The Safety and Compliance Department training for the month of February was “Understanding Material Safety Data Sheets” (better known as the MSDS).

By gaining the knowledge of how to correctly interpret an MSDS, the employees of the District are able to make decisions about how one chemical may react with another.

The MSDS also contains important information about the flammability of the product in question, as well as what type of personal protective equipment (PPE) should be worn while in contact with the chemical.



**DEP TESTING.** The DEP held operator certification courses in the Operations Education Room on February 12<sup>th</sup>. The morning and afternoon testing sessions were at full capacity.

People from all over the state have come to the Loxahatchee River District to complete certifications in all different aspects of our industry. One applicant had traveled from as far as the lower Keys for the chance of furthering his education and certifications.



**HAZARDOUS MATERIALS.** A Hazardous Materials Workshop was attended by the Safety and Compliance Department. It was held at the city of Stuart’s Emergency Operations Center.

The Local Emergency Planning Committee (LEPC) discussed regulatory requirements, hazardous materials release, and reporting procedures.

The annual Tier II Hazardous Materials Report was submitted and confirmed complete with the State. Emergency Response Commission (SERC) located in Tallahassee.

This report consists of emergency contacts for our facility and hazardous chemicals that are present and their quantities.

First responders have access to the information submitted to assist them in emergency response procedures in the event of a chemical related accident.



## Collections and Transmissions Division



**LEFT.** The District Collection Crew assisted the District Engineering Department on an inspection at Lift Station # 226, in Botanical Development.

The Lift Station Crew found a leak in the standpipe for pump #1 and it was decided that an inspection of the wet well with confined space entry was necessary to evaluate the need for further repairs. The Construction Foreman made a temporary repair to the leaky pipe that will hold until further review of the Lift Station and budgetary consideration on the project.

**BELOW.** The District Collection Crew was assigned the task of emptying the Clarifier #1 air bay chamber and connecting a 24" pipe to Clarifier #1 for a confined space entry inspection of the chamber and pipe line.

All the water was removed by a combination of a 5hp submersible pumps that were installed by way of crane and the Vac Con.



**BELOW.** The new generators receive final preparations. Each generator has a power cable and a ground cable installed along with “cradle” for transporting the cables. State license tags were acquired and installed and the Generators are officially ready and available for use.



**BELOW.** For the reporting month, two (2) new Low Pressure Systems came online in the Low Pressure Pump Station System.

The District Vac Con Crew cleaned the following Lift Stations in February 2015; # 226, 124, 210, 52, 265, 266, 207, 53, 12, 206, 236, 9, 11, 154, 192, 114, 155, 113, 53, and 158.

They also worked with the Engineering Department to do a one year inspection of gravity lines in Jupiter Harbor; 10 manholes, and 1,074 feet of gravity main and Jupiter Country Club; 8 manholes and 1,716 feet of gravity main.

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



## TOUCH-A-TRUCK.

The District participated in the 2<sup>nd</sup> annual Jupiter Touch-a-Truck event in February which took place on a beautiful Sunday with great success.

District employees set up the Vac Con; Unit 15 and performed a simulation of a pipe blockage being cleared using the truck's "jetting" function.

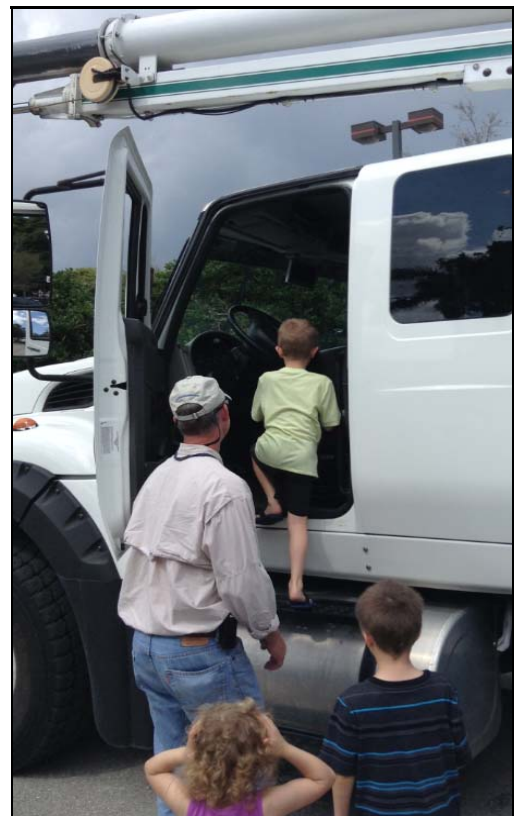
Clear plastic tubes made it possible for spectators to view the high pressure jetting hose traveling through the pipe and breaking the "blockage" (a mixture of sand, red mulch, and some green dye) loose.



Spectators were also given the opportunity to sit in the driver's seat of the truck and explore the truck's controls.



The children (future District employees) were thrilled, and the parents were enjoying the event as well.





## Maintenance

**BELOW.** One of the District's Maintenance Technicians is rebuilding the dump truck bed lift cylinder. The cylinder was rebuilt, reinstalled, tested and put back in service.



**BELOW.** IQ 511 had a new electrical service disconnect installed on the outside of the building to meet electrical code requirements. The District has passed all of the Palm Beach County electrical inspections necessary to energize the system. All work was done in-house by District personnel.



## **Tidbits from Tom**

February, 2015 – National Bird feeding Month



This month was a great month for The Loxahatchee River District. We saw a big seasonal change as the weather became warmer and the rains came down. The month has been largely about sharing as we celebrated these events:

### ***National Bird Feeding Month***

This celebratory Month was created to educate the public on the wild bird feeding and watching hobby. February has become the month most recognized with wild bird feeding promotions and activities. During this month, individuals are encouraged to provide food, water, and shelter to help wild birds survive in what has been known to be their most difficult month of the year. Loxahatchee River District recently had a Birdlife Assessment performed by Friends of Loxahatchee River (FOLR) which documented the large number of birdlife that can be found on the grounds of the LRD. 3,100 different birds from 74 species (more than 1/5 of all bird species that have ever been recorded in PBC) use the grounds each year.

### ***Valentine's Day***

This day is a celebration and observation of love and kindness. In the Middle Ages, young men and women drew names from a bowl to see who their valentines would be. They would wear these names on their sleeves for one week. To wear your heart on your sleeve now means that it is easy for other people to know how you are feeling.

### ***Touch a Truck***

This annual event is organized with the purpose of sharing ideas, experience and knowledge with the community. During Touch-a-Truck, kids and adults have the opportunity to explore all kinds of interesting vehicles. The Loxahatchee River District's Collection Crew Vac Con truck received a very warm welcome this year when it returned for the event on February 22<sup>nd</sup>.

### ***Perspective:***

The Importance of Teamwork:

"Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results." --*Andrew Carnegie*

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

**Tom Vaughn  
Director of Operations**