

# Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

2500 Jupiter Park Drive, Jupiter, Florida 33458-8964

Telephone (561) 747-5700 • Fax (561) 747-9929 • [www.loxahatcheeriver.org](http://www.loxahatcheeriver.org)



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

## MEMORANDUM

TO: Albrey Arrington, Executive Director

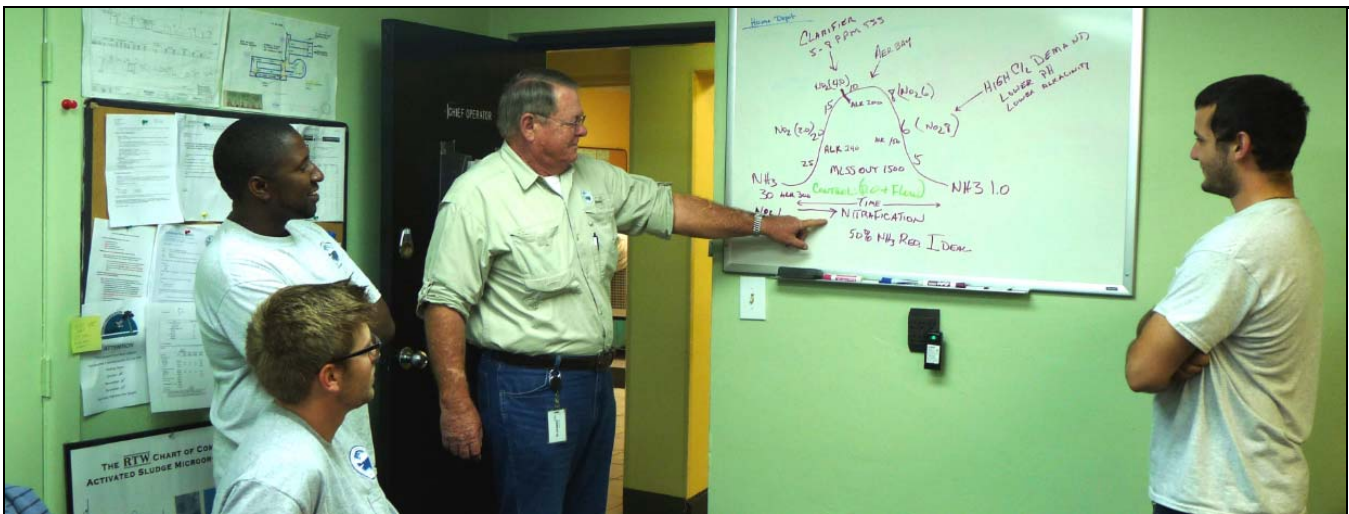
FROM: Tom Vaughn, Director of Operations

DATE: February 9, 2015

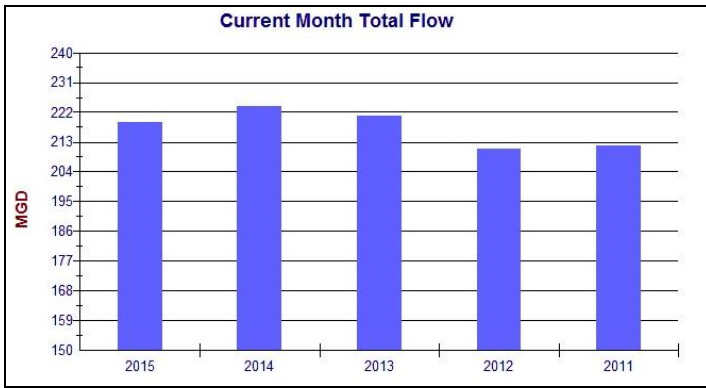
SUBJECT: Operations Department Monthly Report for January 2015

### Treatment Plant Division

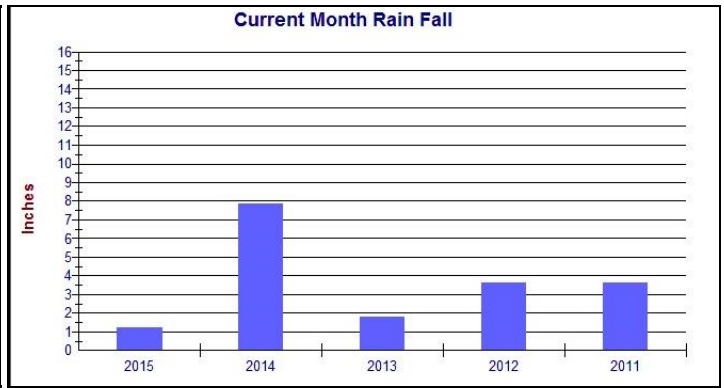
**BELOW.** In order to produce a high quality Plant Effluent that meets Permit standards, the Nitrification Process must be fully understood. The education of younger Operators is essential and ongoing to improving their skills in all areas of operation and process control. We have a bright group of young men coming in to insure a promising and award winning future of plant operation for the District.



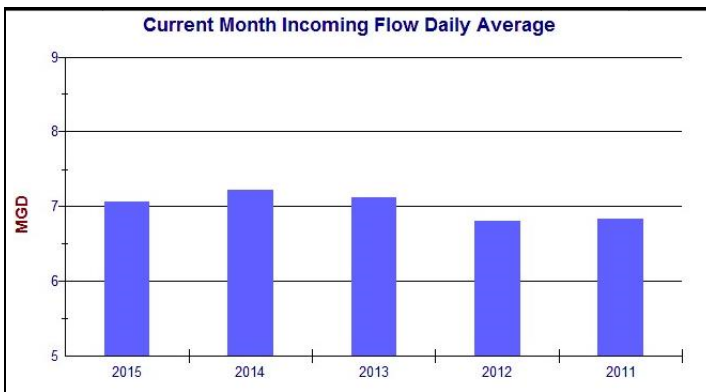
We have had another great month of no Permit exceedances.



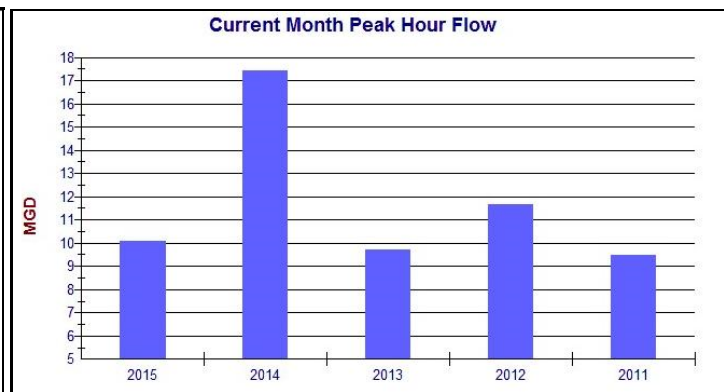
The plant total flow for the month of January was 218.93 million gallons.



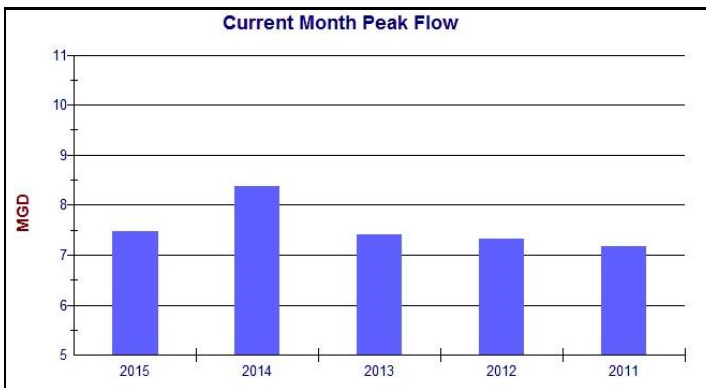
1.24 inches of rainfall were recorded at the plant site during the month of January.



The treatment plant incoming flow for the month of January averaged 7.06 MGD compared to 6.68 MGD one year ago for the same month.

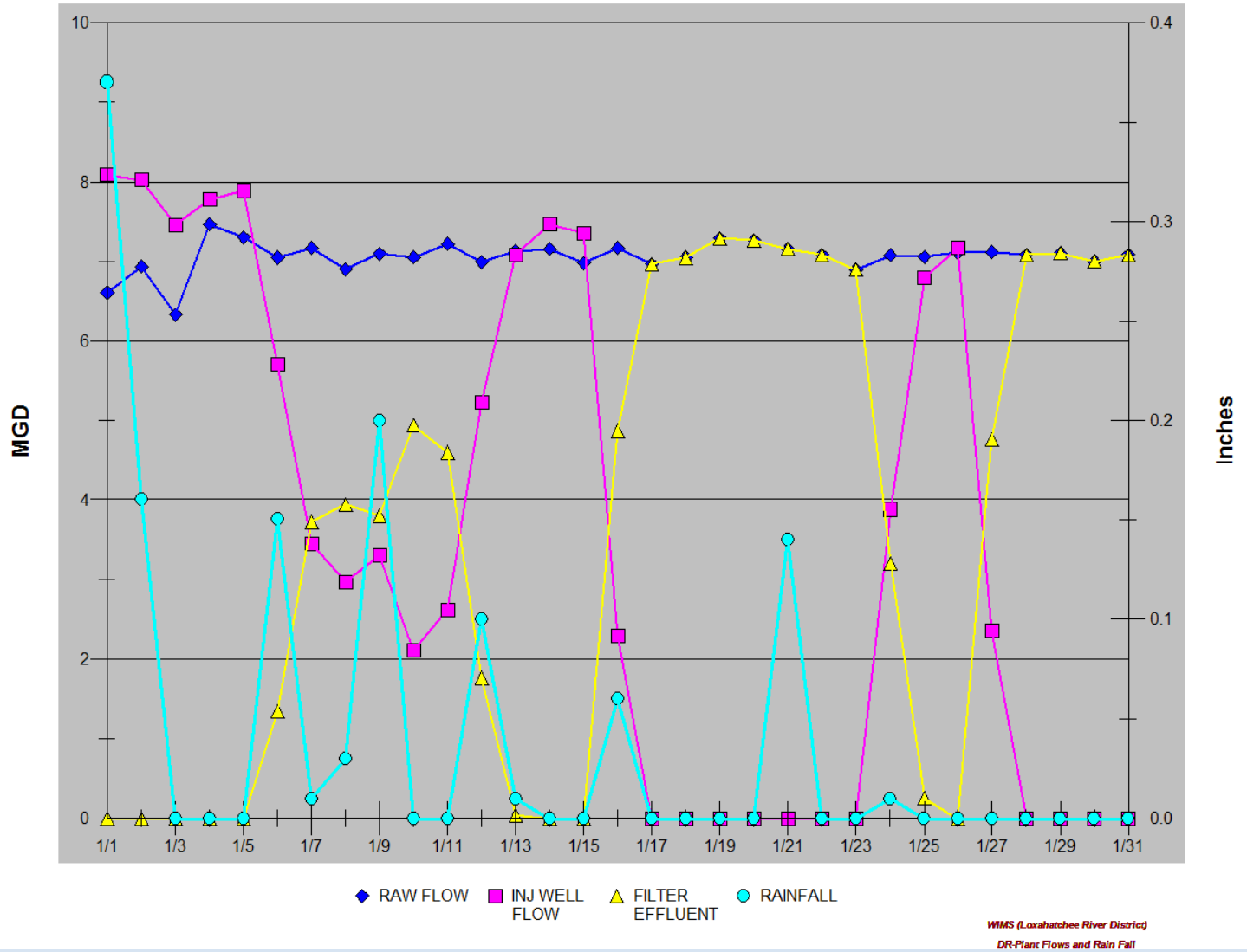


The peak hourly flow rate in January was 10.08 MGD.



The greatest single day average flow in January was 7.47 MGD.

The plant received 218.93 MG of influent flow of which 115.26 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 1.24 inches of rain during the month, 109.01 million gallons of blended effluent was diverted to the Injection Well. Overall, 52.64% of incoming flows was recycled for IQ use and the plant delivered 136.42 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 52.64% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 136.42 million gallons.

All required monthly reporting has been submitted on time.

## Safety / Compliance

**TRAINING.** Training exercise for the month of January was the proper use of PPE (personal protective equipment). Employees learned about selecting the correct PPE for their job protection requirements. Examples would be face shields for eye protection or which type of gloves to select: leather, latex, or nitrile. Other needs such as respiratory requirements for working with chemicals and Tyvek suits for splash protection were discussed.

Construction Crews received refresher courses in Trench Excavation Safety and Confined Space Entry. Each employee who attended will receive training certificates to document the knowledge learned and as required identification of their ability to work in such environments.



M.O.T. (maintenance of traffic) training was conducted by Palm Beach Safety Council instructor Roy Weddle. Employees attending learned how to properly set up required traffic control devices through work zones. The F.D.O.T. has very strict design standards which must be followed for the safety of the traveling public and workers who are in the work zone. Signs, cones, barricades and lighting as well as the consideration of pedestrians and bicyclists are all taken into account for a well-designed work zone. The certifications received are all valid for four years with the F.D.O.T.

**DEP TESTING.** The DEP is continuing to hold operator certification testing here at the facility. A testing day was scheduled in the month of January and one has been added for this upcoming February.



**INSPECTIONS.** The D.E.P. and Palm Beach County Health Department gave the facility a surprise inspection this month. Permits, Schedules, Laboratory, Sampling, Records and Reports were all rated to be in compliance. Regarding additional comments, the facility received a rating of excellent concerning General Housekeeping. The site was observed to be secured and clean with structures and equipment in good working order.

The clarifier #1 influent distribution wet well was drained, cleaned and inspected. Inspection found the inside of the unit to be in good shape. Collections crews performed all the necessary requirements to conduct this permitted confined space entry safely and without incident.



**ENVIRONMENTAL.** The National Audubon Society Bird Assessment for 2014 is complete and will be available for review very soon. The survey documented approximately 3100 different birds from 74 species found on the District's property.



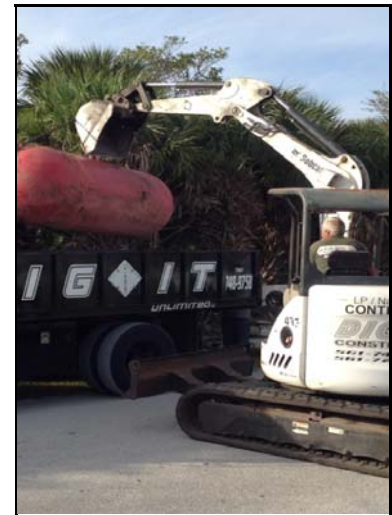
## Collections and Transmissions Division



**LEFT.** The District Field Electrician changed out the rusted uni-strut and clamp system on the control panel assembly. The galvanized struts are being upgraded with stainless steel struts and clamps, in accordance with “Construction Standards and Technical Specifications”.

The Jupiter Medical Center (#25) and Jonathans Landing (#32) were the two stations that received these upgrades this month.

**BELOW.** At Town of Juno Beach Public Works Facility Pump Station #130, the decommission and removal of the underground propane tank was performed. The tank was no longer used for the standby generator that was originally installed by Juno Beach in the early 80’s.



**BELOW.** All the above ground discharge piping were primed and painted at Lift Stations #47(Tequesta) and #97(Jupiter Harbour). These stations were part of the 2014 Budgeted Station Refurbishment Projects.



**BELOW.** The three new portable generators that were purchased in 2014-2015 budget year were officially started up and put online with the Kelly Tractor representatives on site to certify the official start up. The generators were tested under load using the “buck boost” transformer that was installed at IQ 512 Reclaimed Water Station specifically for in house generator “exercising and testing”.



**RIGHT.** On Treatment Plant site, the Field Collection/Transmission Crew performed the PM (preventative Maintenance) at the Reclaimed Water West Pump Station #512.

This station provides 900,000 gallons per daily contract allotment of reclaimed water to The Jupiter Country Club. The reuse water is pulled from Plant Site Storage Lake #1, and delivered to JCC through the Reuse Main that is under I-95 and the Turnpike and is metered at IQ Site #530 and into Lake #10 of JCC at the entrance to the Jupiter Country Club off Indiantown Road.



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

The District Vac Con Crew cleaned the following Lift Stations in January 2015; #18, 121, 105, 53, 93, 24, 152, 101, 151, 101, 152, 254, 228, 76, 73, 16, 34, and 140.

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



**RIGHT.** A scheduled Vendor Product Demonstration with District Engineering and the Construction and Collection Department took place this month. The products were for field no-dig repair hardware for gravity lines and showed a few issues.

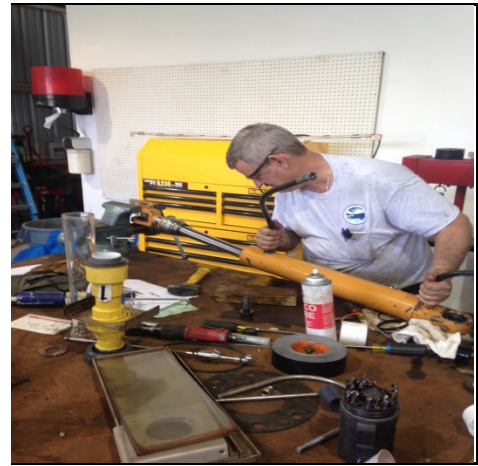
The Demonstration was coordinated with the invitation from HD Supply Waterworks. In attendance were the Director of Engineering and the Director of Operations.





## Maintenance

**RIGHT.** One of the District's Maintenance Technicians is utilizing the new Pump Repair Shop facilities to repair the two steer cylinders for the case loader. In the past, we would send it out to be repaired and it would take a minimum of a week to receive them back. Now, it's an expense that can be avoided with the help of the Pump Shop.



**BELOW.** This is the top of one of our Vac Cons that has a considerable amount of deterioration that directly affects the efficiency of the vacuum. The existing holes were repaired and an additional layer of protection was installed to ensure its longevity.



**LEFT.** These operators are cross-training in the Maintenance Shop and are fabricating a Stainless Steel hose holder to install in the Dewatering building. Cross-training is valuable to the Operation of the Plant and to the long-term careers of the employees in this industry.

**BELOW.** This was a large debris pile that had to be sorted thru and screened out. The screening process takes out large debris and sorts the top soil. The existing area that was the debris pile will now be an empty field.



## **Tidbits from Tom**

January, 2015 – New Year’s Resolutions

Everybody wants to better themselves. Some people even want to better their community. The loftiest of people want to improve the world. Regardless of your level of altruism, New Year's seems to be the iconic time to start your personal quest.

January 1st is the start of a new calendar year and a symbol of starting a new life. Many people tend to make goals for themselves centering around that date and the traditions surrounding it.

The top ten New Year's Resolutions for the 2015 year:

1. **Accomplish the Incomplete** – If you still feel that the resolutions you made last year and abandoned midway are worth a second shot, give it another chance!
2. **Quit an Addiction** – It will not take you anywhere good, trust us. If it does you no good, why stick to it? If needed, seek help of support groups or professionals. If you have the will, you shall find the way.
3. **Fit in Fitness** – Secure a future with fewer trips to the doctor – exercise. Select a regime you can stick to. A group activity may add the element of fun to the routine. Lose some flab. But don’t set any strict target, for then the chances are you may get de-motivated and quit.
4. **Soak up New Skills** – Learning something new and interesting is always fun and a value addition too.
5. **Healthy Hogging** – Think before you put any morsel in your mouth. Occasional indulgence should be there.
6. **Lose the Loan** – Pay off any debt you may have and feel light at heart.
7. **Sack Stress** – This sounds easier than it actually is, and there is no magic tip. You have to find your own haven.
8. **Contribute for a Cause** – Giving back to the society is the least we can do to make the world a better place to live in.
9. **Liven up Your Lifestyle** – Professional growth is okay, but your personal life requires attention too. Strike a balance.
10. **Organized** – This is the key to make life easy, manage time and live stress free. Make a proper To-Do list, and you are half way there already.

### ***Perspective:***

“Let our New Year’s Resolution be this: We will be there for one another as fellow members of humanity, in the finest sense of the word.” – Goran Persson

“Don’t worry about failure. Worry about the chances you miss when you don’t even try.” – Sherman Finesilver

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

**Tom Vaughn  
Director of Operations**