

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



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

MEMORANDUM

TO: Albrey Arrington, Executive Director

FROM: Tom Vaughn, Director of Operations

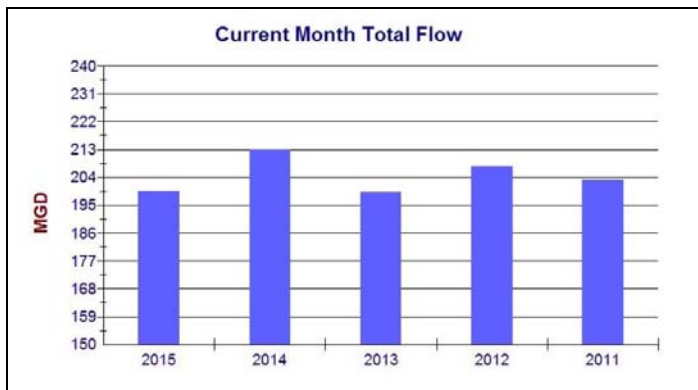
DATE: November 10, 2015

SUBJECT: Operations Department Monthly
Report for October 2015

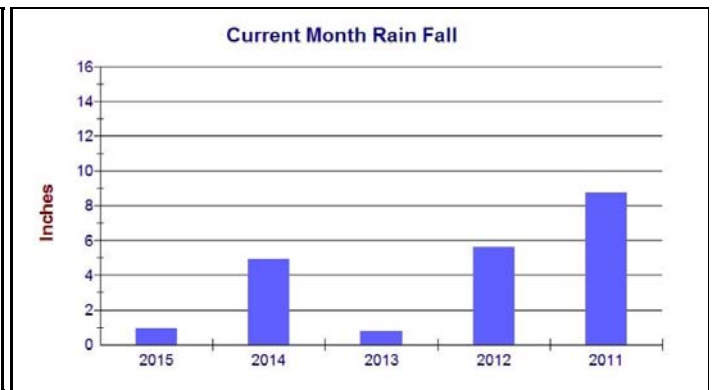
Treatment Plant Division

The month of October allowed for the District to reap the fruits of its labor through the witnessing of three of its newer employees receive Florida D.E.P. class C wastewater licenses. One of our class C licensed operators advanced his skills by obtaining the Florida D.E.P. class B license and one of our class B operators attained the class A level license. Back in July of 2015, the District implemented a training session that was held weekly in the Education Room of the Rick Dent Bldg. Once a week, the principles of operating a wastewater treatment would be presented to the participants. As a result of the District's efforts, five out of the five district employees taking the state exam passed. Without a doubt, this event has shown the dedication that management has for its employees and the real rewards obtained for both the District and its employees. Together, we are making long term investments in the District and its employees.

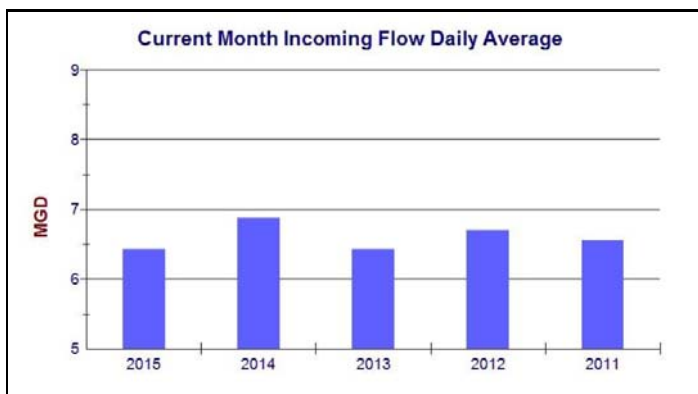
We have had another great month of no Permit exceedances.



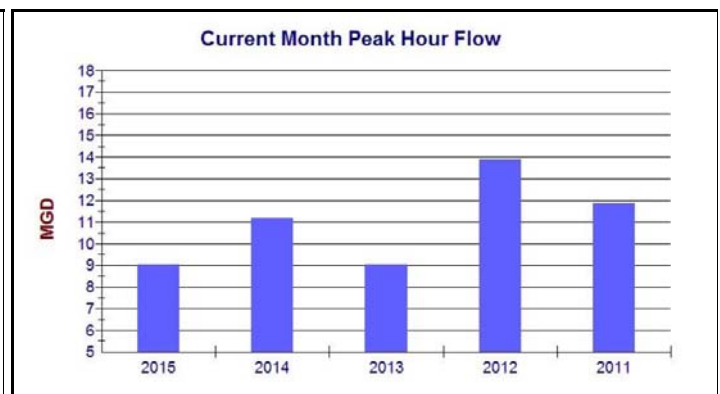
The plant total flow for the month of October was 199.34 million gallons.



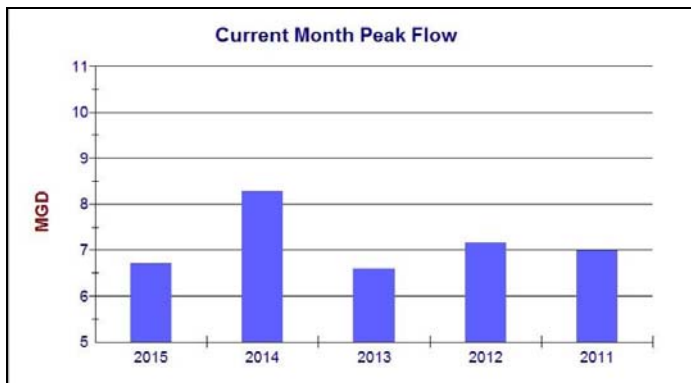
.95 inches of rainfall were recorded at the plant site during the month of October.



The treatment plant incoming flow for the month of October averaged 6.43 MGD compared to 6.87 MGD one year ago for the same month.

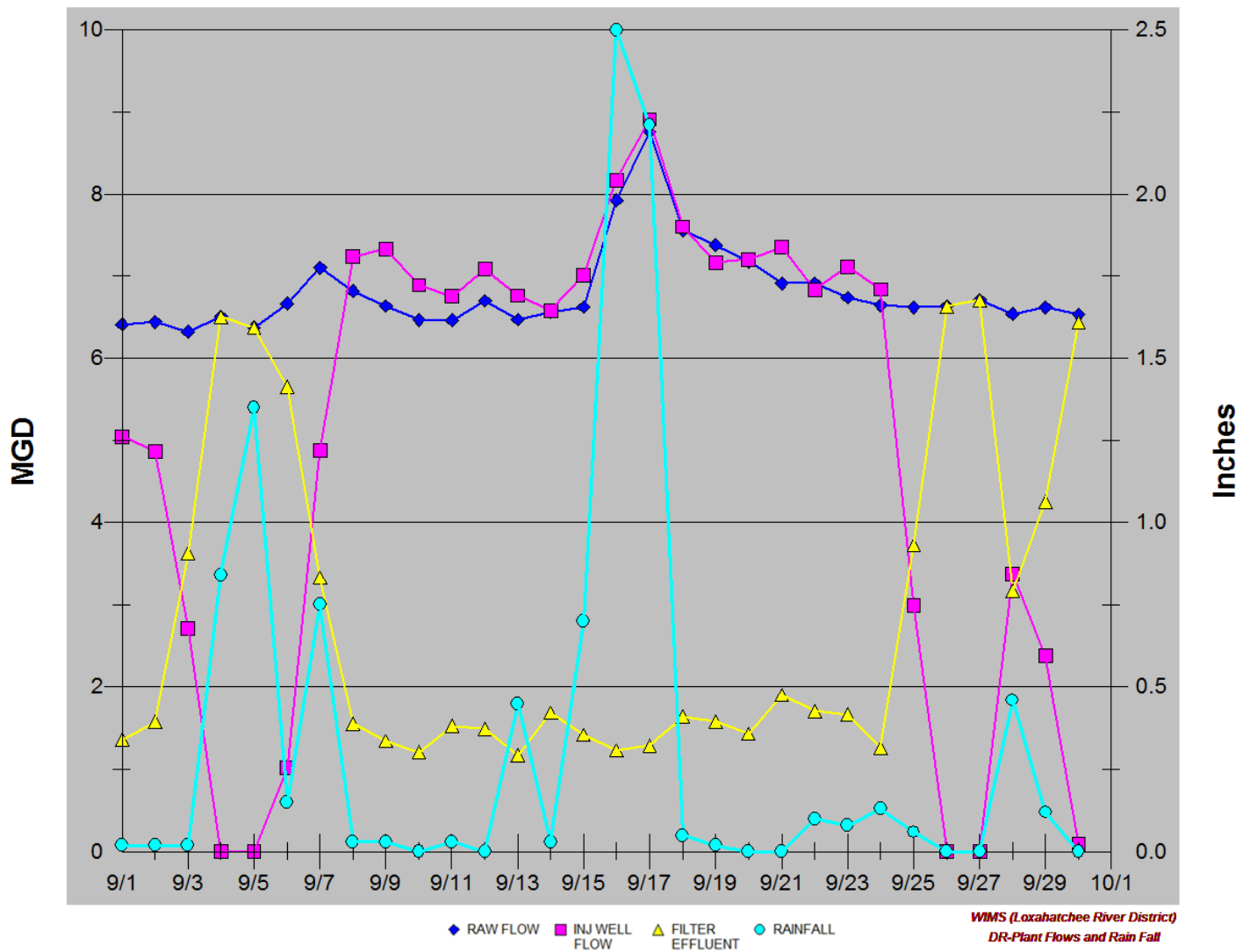


The peak hourly flow rate in October was 9.02 MGD.



The greatest single day average flow in October was 6.72 MGD.

The plant received 199.34 MG of influent flow of which 164.02 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 .95 inches of rain during the month, 45.31 million gallons of blended effluent was diverted to the Injection Well. Overall, 82.28% of incoming flows was recycled for IQ use and the plant delivered 171.71 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 70.91% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 1,543.01 million gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

CONFINED SPACE. The construction crews received an upgraded self-retracting life line for use in confined space procedures.

This unit has a working capacity of 410lbs. and is constructed of an aluminum housing and stainless steel connection cable.

This sealed unit incorporates a patented concept that protects the inner workings from certain elements found in our particular working environment.

By keeping moisture, dirt, grease and other foreign objects away from important components such as springs, clutches, and brakes, it ensures that this self-retracting life line will work at peak efficiency in the event of an emergency.



SAFETY TRAINING. Training for the month of October involved all aspects of Personal Protective Equipment (PPE).

District employees reviewed how to choose the right protective equipment for the job, as well as inspection and maintenance procedures of their PPE.

The District provides all the necessary safety equipment that our crews need to complete their jobs and get home safely at the end of the day. Everyone has a responsibility to work safely and to be sure others around them do the same.

The Safety and Compliance Dept. has an open door policy for suggestions on improvement in any particular area or new and improved equipment. By everyone participating in our safety program it produces a culture of employees who are always on the lookout for the well-being of their fellow crew members.



The District has no injuries or accidents to report for the month of October.

Collections and Transmissions Division



LEFT. At plant site, IQ 511; Master Reclaimed Water pump station with the District Construction crew performed the scheduled task of replacing a 14 inch check valve with a spare.

District Reuse operators performed the isolating of the discharge piping and Lock out/Tag out of electrical equipment for the scheduled work.

BELOW. The District Construction crew replaced a damaged leaking section of the 16 inch reclaimed water piping main. The project was in the Northern Reuse transmission area of the Mooring & Loxahatchee Pointe Developments.

District Reuse Operators prepared and isolated the Northern line and closed several valves while keeping the East and South Reuse system flowing during the repairs.



RIGHT. At Abacoa #518; Master Reclaimed pump station, the annual (budget year) rebuild of one of the five 100 HP pumps and motors was completed.

There are five 100 HP pumps and one 30 HP jockey pump for the station. One per budget year is scheduled and completed to ensure reliability of the system.



BELOW. District Operations, Reuse, and Engineering Construction crews completed the POC's (point of connections) in the Abacoa Reuse distribution system.

Replacement of the site main control valve and associated piping with new conduit and wiring was started up and tested. The sites were #6 and #8 (roadways), #10 (Antigua), #13 (Charleston Court), and #31 (Jupiter skate/field Complex).



RIGHT. The annual FDEP permitted 24 hour composite sampling of the “Nano-concentrate” from Jupiter Water Treatment Plant was successfully completed and collected for processing. Monitoring location sites were # EFF-04 (concentrate prior to blending) and EFF-05 (IQ 511)

The task was coordinated with the District’s Wildpine Laboratory Manager and Jupiter Water Treatment Plant to ensure constant flow of concentrate during the 24 hour sampling period.



LEFT. For the reporting month, three (3) new low pressure systems came online in the Low Pressure Pump Station System.

The District Vac Con Crew cleaned the following Lift Stations in October 2015; #236, 231, 301, 220, 110, 83, 253, 48, 18, 264, 114, and 249.

The Vac Con Crew worked with the Engineering Department to assist with the “one-year” Bond Inspection of the gravity system which flows into Lift Station #25; three (3) manholes and two hundred lineal feet of gravity main.



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. Filter pump station, pump #2 has been installed after a complete rebuild. The maintenance team set the pump in place, bolted up the suction, and discharged and set the clearance of the impeller as per the manufacturer's instructions.



The Job was a success and the pump is currently in operation.



Tidbits from Tom

October, 2015 – Fiscal New Year

“The secret of change is to focus all of your energy, not on fighting the old, but on building the new.” – Socrates



October 1st marked the beginning of a new fiscal year. Many successful changes were accomplished in all areas of Operations. Educational opportunities have been put into place in order to promote continued change toward improvements. Modifications that had been implemented in the previous year have been and continue to be effective.

Many times, changes at work are something to look forward to and we may often have conversations with our co-workers about how things should be altered. Nevertheless, when things do change, we are habitually terrified and become uncomfortable. Change is unavoidable and essential in order for industries and organizations to endure and thrive. At times, change can be levied upon us. An immediate boss, team, work responsibilities and even modifications to our individual roles may suddenly alter our normal daily routines. In order to cope with these workplace adjustments, we must learn to overcome fear and embrace the changes ahead.

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

Tom Vaughn
Director of Operations