

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: April 8, 2015

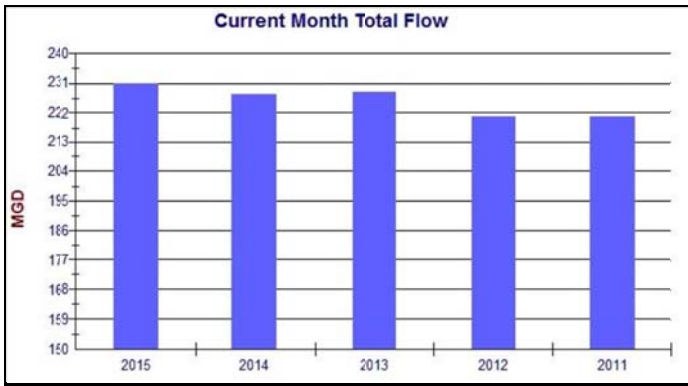
SUBJECT: Operations Department Monthly
Report for March 2015

Treatment Plant Division

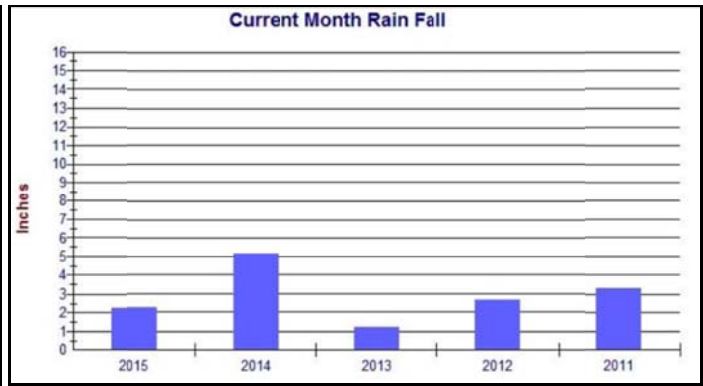
For the last month and on a continuing basis, operators are now collecting and analyzing water samples from 17 different locations to create a data base for a corrosion study throughout the Plant and lake systems. This information will help in process control as well as extending the life of pumps and piping throughout both systems.



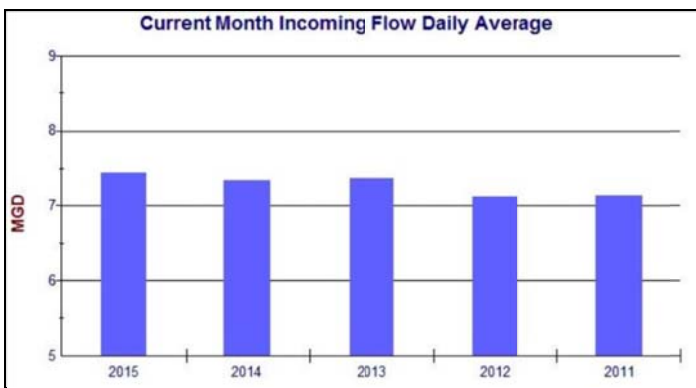
We have had another great month of no Permit exceedances.



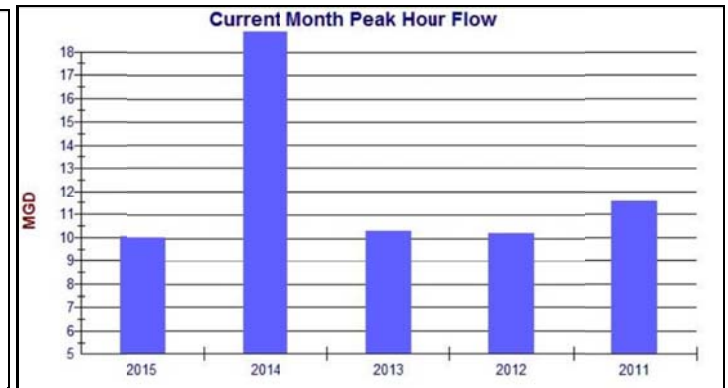
The plant total flow for the month of March was 230.72 million gallons.



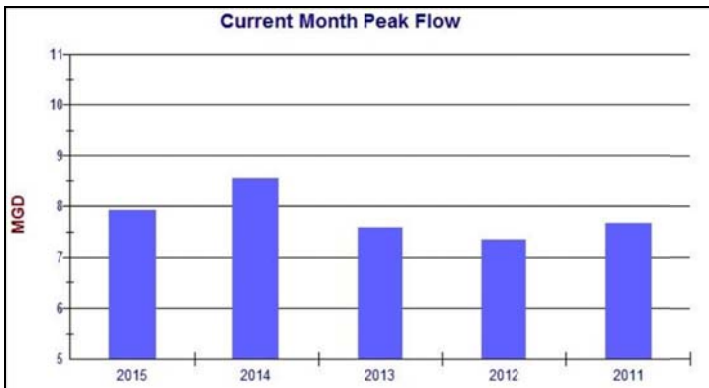
2.22 inches of rainfall were recorded at the plant site during the month of March.



The treatment plant incoming flow for the month of March averaged 7.44 MGD compared to 7.34 MGD one year ago for the same month.

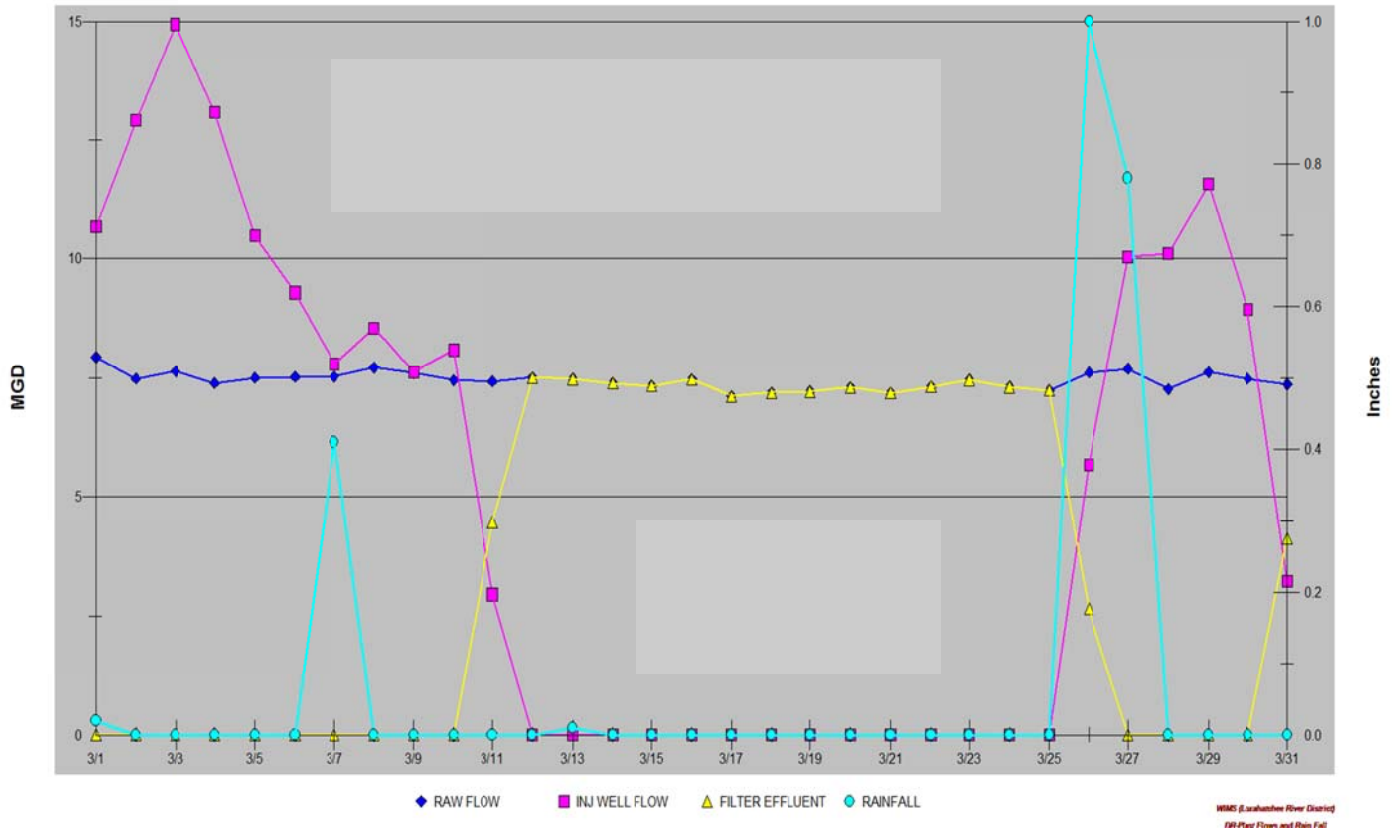


The peak hourly flow rate in March was 10.02 MGD.



The greatest single day average flow in March was 7.93 MGD.

The plant received 230.72 MG of influent flow of which 113.75 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 2.22 inches of rain during the month, 155.92 million gallons of blended effluent was diverted to the Injection Well. Overall, 49.30% of incoming flows was recycled for IQ use and the plant delivered 143.88 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 59.85% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 430.47 million gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

TRAINING. For the month of March, the required safety training was “education on eye protection”. In an effort to eliminate eye injuries, employees learned about all aspects of eye protection equipment. The District provides a wide array of PPE (personal protective equipment) for eye protection tailored for specific applications.

The basics begin with ANSI Z87.1 rated safety glasses meeting all testing requirements of the American National Standards Institute. Full brim hardhat and face shield combos for use during construction projects offer protection for the head, face

and neck area. Face shields with adjustable ratchet suspension are for use during work involving cutting or grinding and splash goggles are worn when working with chemicals or applications where spraying or misting of a substance may be a hazard.



CPR & AED. CPR and AED certification training was held for District employees in the Operations Education room. Certifications are valid for two years and the training received provides valuable lifesaving information.

Life Safety Solutions provided training materials and life-like CPR models for employees to practice their technique.

AED training was conducted with the HeartSine AED units located on site so that employees are familiar with the equipment that they may one day need to use here at the District.



PLANT TOUR. Jupiter U (the town of Jupiter’s citizens’ academy program) came to visit and take a tour of the facility. Jupiter U allows residents to learn about their town’s history, government and supporting services.

The District conducted a morning and afternoon tour for a total of approximately fifty local and seasonal residents. The District received numerous compliments regarding the programs we support to educate the community about our efforts in the conservation of our natural resources. One of the most heard comments was how well the facilities equipment and grounds were maintained, as well as the abundance of wildlife to be seen here on District property.

Many of our visitors stated that Loxahatchee River District was head and shoulders above other locations they had toured.



Collections and Transmissions Division



LEFT. On plant property at the 7 day ponds, a newly fabricated inspection access point was installed for the District Wild pine Laboratory Technicians. Its purpose is to safely and easily take the grab samples from the stabilization ponds.

The access work was performed by District Reuse Technician and the Maintenance Department for the fabrication.

BELOW. IQ station #511 and Booster station # 200 were suited with new rubber floor matting for MCC (motor control centers).

The new floor material is OSHA certified to protect against electrical shock while working in electrical areas. The matting will prevent employees from grounding the circuit.



BELOW. FPL (Florida Power & Light) scheduled a meeting with The District asking for permission to disconnect power to lift station #43 while they installed upgraded transformers on a new power pole.

The District Field Crew set up a portable generator to power the Lift Station for the duration of the power pole and transformer installation.



BELOW. A new control panel was installed at lift station #102; 178 Helios Dr. by District crews and an electrical contractor. The control panel is equipped with VFDs (variable frequency drive), which allows the single phase power to run the three phase pumps installed at the station. The District crews also set up and maintained the station bypass system for the duration of the project. The purchase and installation of the panels were budgeted items from the Budgetary R & R account.

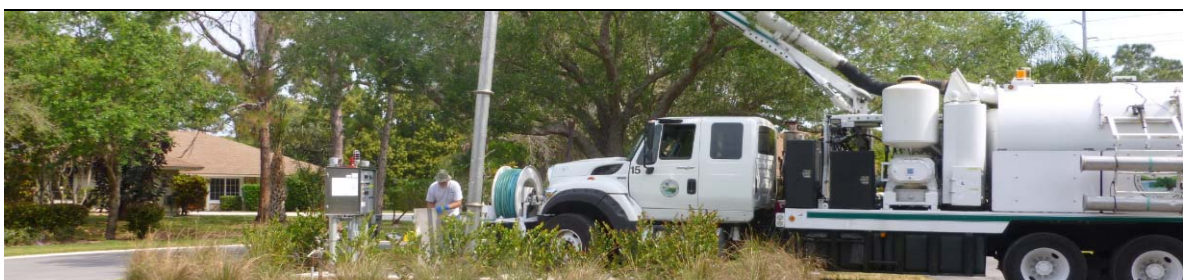


RIGHT. District Collection crews are pictured taking the 200HP electric motor which drives pump #3 at the Master Lift Station from the lower floor of the station to the outside pick up area. All work, including electrical disconnect/reconnect ,pump adjusting, start up, and testing post-installation were performed by District crews.



VAC CON. For the reporting month, four (4) new low pressure systems came online in the Low Pressure Pump Station System. The District Vac Con Crew cleaned the following Lift Stations in March 2014; 157, 140, 160, 97, 101, 83, 21, 41, 18, 26, 90, 91, 10, 174, 15, 147, 56, 130, 114, and 34. The crew also completed inspection (per MP2 scheduled task) of gravity systems for Lift Station #73; 24 manholes; 6,114 feet of gravity main, and lift station #163; 33 manholes; 7,482 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 systems to not operate normally.



Maintenance

BELOW. The Maintenance crew has been conducting repairs for the preservation of the clarifier walls and center section. The center cone was showing signs of surface rust and was in need of restoration. It was sand blasted down and a cold galvanized coating was applied to ensure another 10 years of service.



BELOW. The Maintenance Department has been working with other departments at the District and cross training to work more efficiently on other projects throughout the facility. The drying bed was removed for future expansion of the press plant.



Tidbits from Tom

March, 2015 – *Spring Forward*



On Sunday, March 8th we turned our clocks forward. Daylight Savings Time is the practice of advancing clocks during summer months by one hour so that light extends into the evening hours – sacrificing normal sunrise times. DST clock shifts sometimes complicate timekeeping and disrupt meetings, travel, billing, recordkeeping, medical devices, heavy equipment and sleeping patterns. Loxahatchee River District had a flawless time shift and operation of the plant transitioned smoothly during this event.

St. Patrick's Day

The feast of Saint Patrick: Traditional death date of Saint Patrick and a celebration of the culture of the Irish. It is a public holiday in the Republic of Ireland that has become widely celebrated internationally.

Perspective:

Efficiency:

"The comparison of what is actually produced or performed with what can be achieved with the same consumption of resources (money, time, labor). It is an important factor in determining productivity."

"The highest type of efficiency is that which can utilize existing material to the highest advantage."

Change:

"It doesn't do any good to sit up and take notice.....If you keep on sitting!"

"When we start to look beyond currently accepted methods of thinking - (THE BOX) - We will start to discover the potential we have in ourselves - and realize the only limit to our potential is the limit we impose on ourselves."

"If you commit to staying in front of the curve - You won't find yourself behind it."

"Keep in mind, Change is inevitable, but, growth is intentional!"

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

**Tom Vaughn
Director of Operations**