

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: June 10, 2015

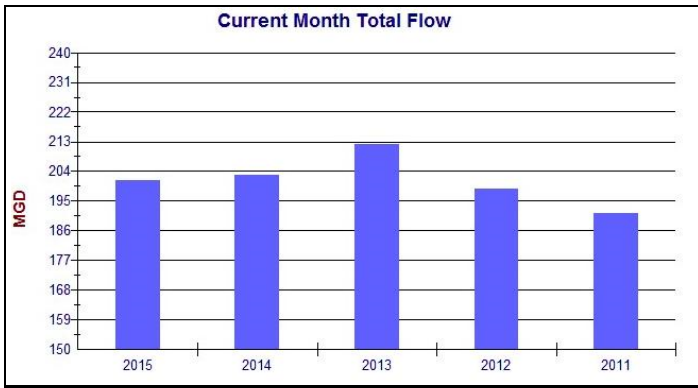
SUBJECT: Operations Department Monthly
Report for May 2015

Treatment Plant Division

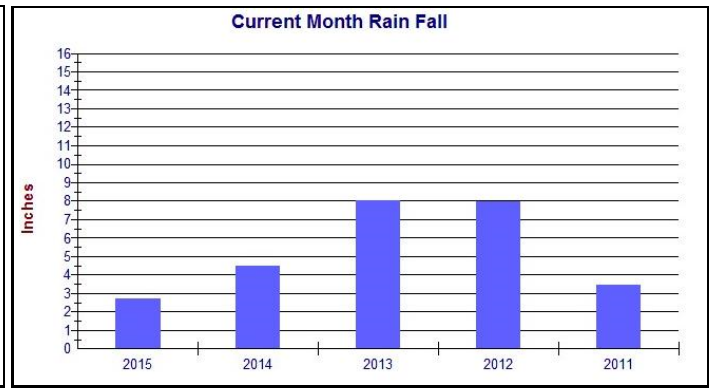
We have a new arrival to the Plant Site.



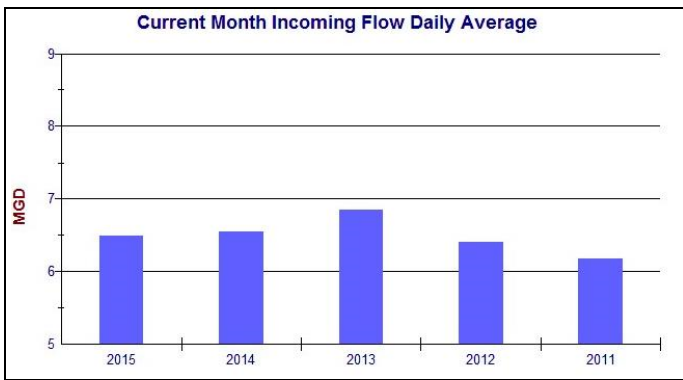
We have had another great month of no Permit exceedances.



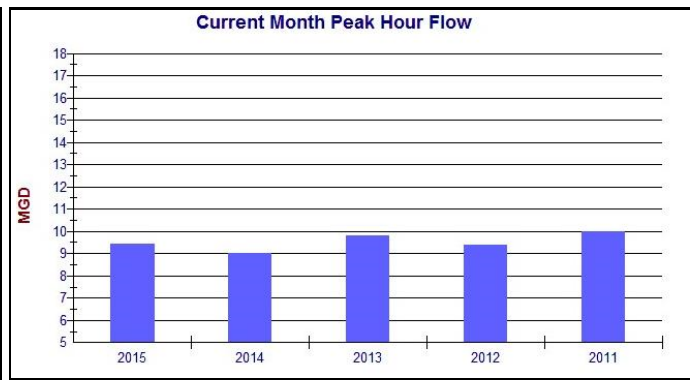
The plant total flow for the month of May was 201.34 million gallons.



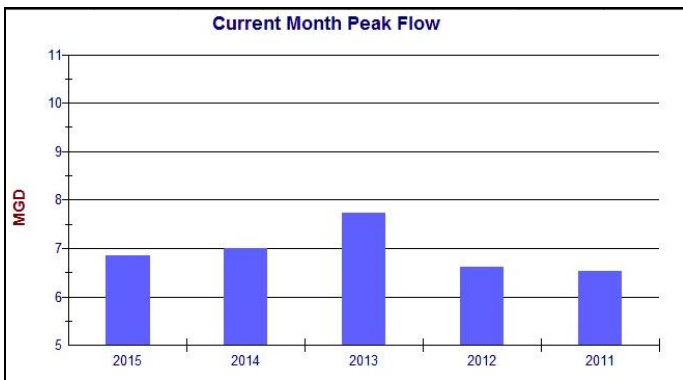
2.72 inches of rainfall were recorded at the plant site during the month of May.



The treatment plant incoming flow for the month of May averaged 6.49 MGD compared to 6.54 MGD one year ago for the same month.

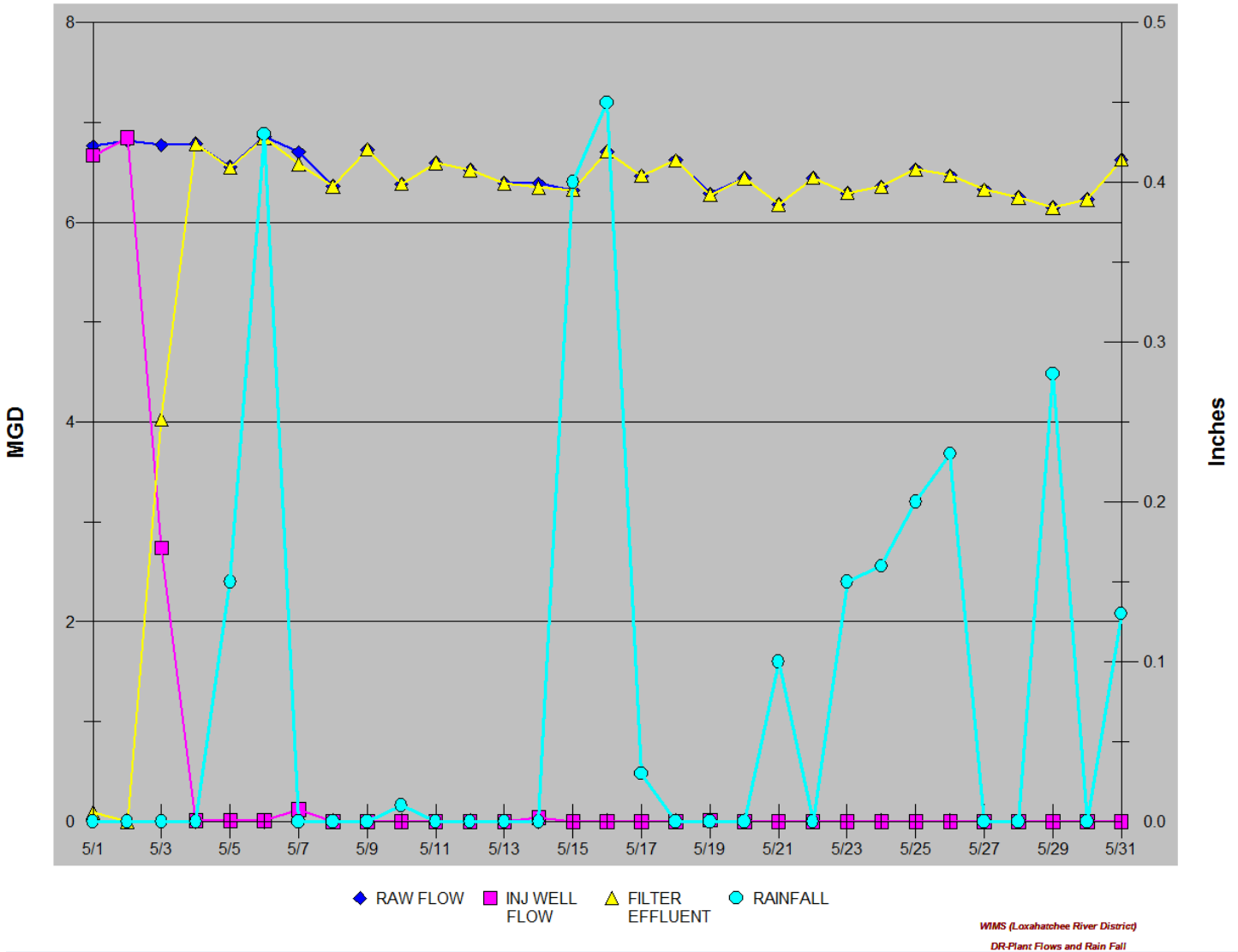


The peak hourly flow rate in May was 9.42MGD.



The greatest single day average flow in May was 6.86 MGD.

The plant received 201.34 MG of influent flow of which 184.92 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 2.72 inches of rain during the month, 16.46 million gallons of blended effluent was diverted to the Injection Well. Overall, 91.84% of incoming flows was recycled for IQ use and the plant delivered 203.53 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 68.32% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 799.31 million gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

TRAINING. DEP certification testing continues here at the District with people from all over the state coming to visit our location and advance their educations in the water and wastewater fields.

The District will also be adding three levels of PLC training courses to our education program. Those who attend will be eligible for CEU's through the Florida Rural Water Association.



Career Source. The Safety & Compliance Dept. is working with Career Source of Palm Beach County to expand the career opportunities of veterans in our local area. The water and wastewater industries are a very important part of our nation's infrastructure. As a leader in water conservation efforts, the Loxahatchee River District recognizes the need to recruit outstanding people with the many skills required to operate our facility. Many military veterans understand the value of a job done well and this is our opportunity to do for those, who have already done for us.



EPA. The Safety & Compliance and IT Dept. attended the EPA's Cyber Security workshop held at the Orange County Utilities Administration building in Orlando. The EPA as well as speakers from the Department of Homeland Security discussed tactics and scenarios that our industry faces from computer based threats. A wide range of knowledge was gained on how to recognize and defend ourselves from these threats should they appear.

FIRE SAFETY. The safety training for the month of May focused on the District employee's fire extinguisher knowledge. The different types of fire extinguishers needed for different types of fires as well as their proper use. A "live" fire exercise was conducted with the help of the Palm Beach County Fire Dept. This training exercise helped those who have never had to use a fire extinguisher understand the most effective way to put out a fire and potentially save a life.



Collections and Transmissions Division



LEFT. The District Construction crew performed the scheduled replacement of the 8 inch plug valve at IQ site 505 (Turtle Creek) metering station.

The valve had malfunctioned and was attached to an electric actuator for opening/closing in the normal daily operation of carrying reuse water to the golf course storage pond.

The Field Electrician assisted in reattaching the electric actuator and performing a system check before putting the site back online.

BELOW. District Operations Collection and Engineering Construction Crews worked together to replace an air release valve on Main Street in Abacoa.

The affected section of the force main was isolated, checked to confirm flow was stopped and then the Construction Crew installed a new stainless steel pipe assembly for the new air release valve per current District Standards and Specifications. Confined Space Entry protocol was used while the crewmember was in the manhole.



BELOW. In Abacoa at the Town of Jupiter South Community Park, new playing fields were constructed in the park expansion. The District's role in the park expansion was the expanded Reclaimed water daily allotment required for the newly installed field.

Communications between the Town of Jupiter Engineer, Contractor and District Administration to facilitate the agreement of the increased allotment for a ten-week period were successful. District Reuse Technicians were very attentive to this system in providing very critical reuse water through District POC (point of connection) for the park expansion.



BELOW. On the Treatment plant site at the Master Reclaimed Water Pump Station #511, the maintenance for station painting was completed.

The work performed was to the above ground discharge piping, motor control center building structure and access doors. Also included were the safety poles and underground valve access covers.



BELOW. The District Collection Crew working the Center Route installed a small retaining wall around the control panel for Lift Station #32 in Jonathan's Landing. The crew performed scheduled improvements that were needed due to the rain runoff and foot traffic that had exposed the electrical conduits between control panels and the wet well.



For the reporting month, five (5) new low pressure systems came online in the Low Pressure Pump Station System.

The District Vac Con Crew cleaned the following lift stations in May 2015; #264, 140, 233, 228, 86, 159, 147, 93, 25, 85, 114, and 38.

The crew also completed the inspection of the gravity system for Lift Station #51; 4 manholes and 703 lineal feet of gravity main, and the inspection of the gravity system for Lift Station #166; 27 manholes and 5772 lineal 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 Nr 2 injection well pump and motor was removed for routine maintenance and inspection and replaced.



BELOW. One of four check valves was removed and sent to our on-site pump repair shop. We have a standby unit so that we can take out one of the four check valves and install the standby unit to have the capability of full capacity while we are servicing the removed unit.



Tidbits from Tom

May, 2015 – *Memorial Day*



Memorial Day, an American holiday observed on the last Monday of May, honors men and women who died while serving in the U.S. military. Originally known as Decoration Day, it originated in the years following the Civil War and became an official federal holiday in 1971. Unofficially, at least, it marks the beginning of summer.

In 1966 the federal government declared Waterloo, New York, the official birthplace of Memorial Day. Waterloo—which had first celebrated the day on May 5, 1866—was chosen because it hosted an annual, community-wide event, during which businesses closed and residents decorated the graves of soldiers with flowers and flags.

In 1968 Congress passed the Uniform Monday Holiday Act, which established Memorial Day as the last Monday in May in order to create a three-day weekend for federal employees; the change went into effect in 1971. The same law also declared Memorial Day a federal holiday.

Unofficially, at least, it marks the beginning of summer.

Perspective:

Liberty:

“Far better it is to dare mighty things, to win glorious triumphs, even though checkered by failure, than to take rank with those poor spirits who neither enjoy much nor suffer much, because they live in the gray twilight that knows neither victory nor defeat.” – Theodore Roosevelt

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

**Tom Vaughn
Director of Operations**