

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: July 12, 2016

SUBJECT: Operations Department Monthly
Report for June 2016

Treatment Plant Division

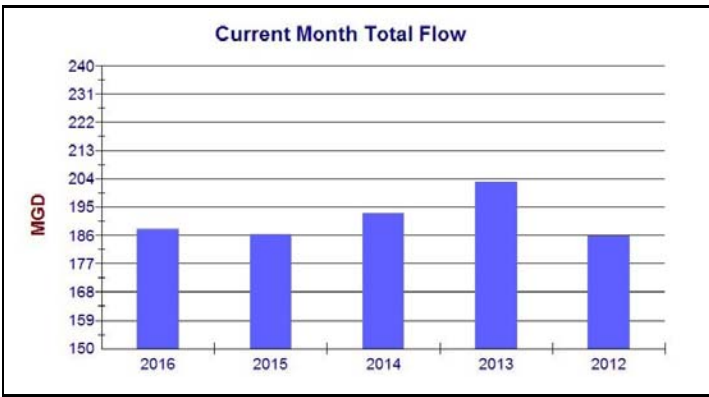
In June operators continued to expand their cross training by learning to operate a lathe and weld. Cross training was also held between lead operators and plant operators.

The District hosted FW&PCOA's Utility Customer Relations Level I on June 24th. Twelve students attended including three from Immokalee Water Plant and two from Charlotte County Utilities. Both operators and customer service representatives took this course online and came to the District for the one day interactive portion of the class to review lessons and take the exam for certification and CEU's.

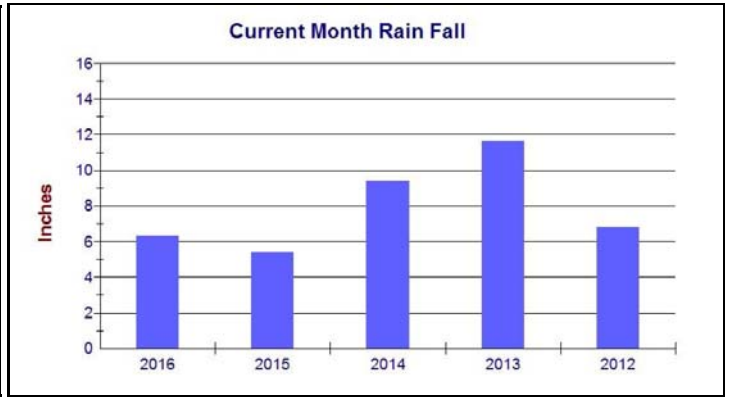
The District has been asked to host Utility Customer Relations Level II in October. We look forward to having this and other training opportunities with FW&PCOA happen here in the future.



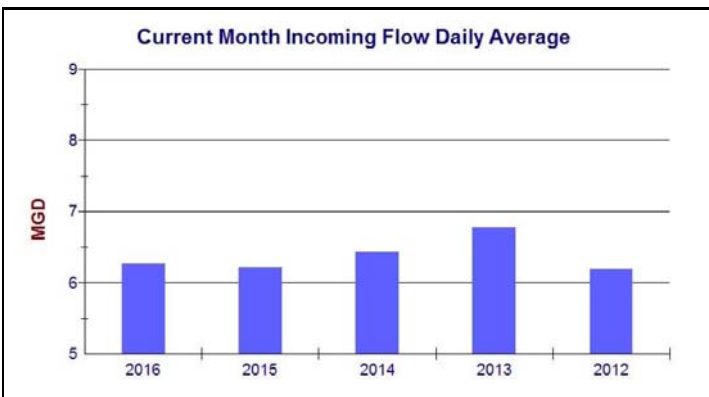
We have had another great month of no Permit exceedances.



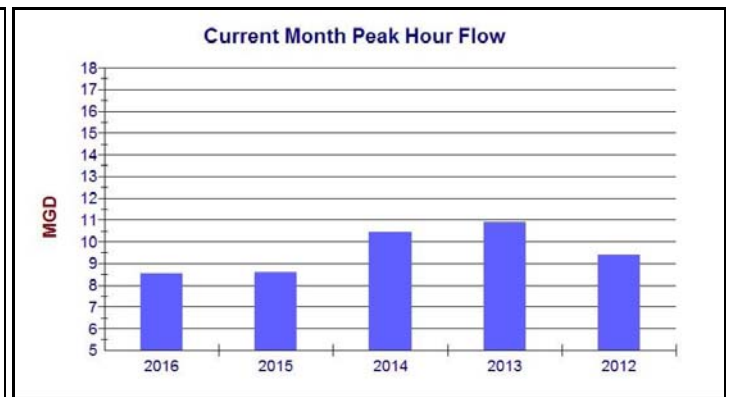
The plant total flow for the month of June was 187.93 million gallons.



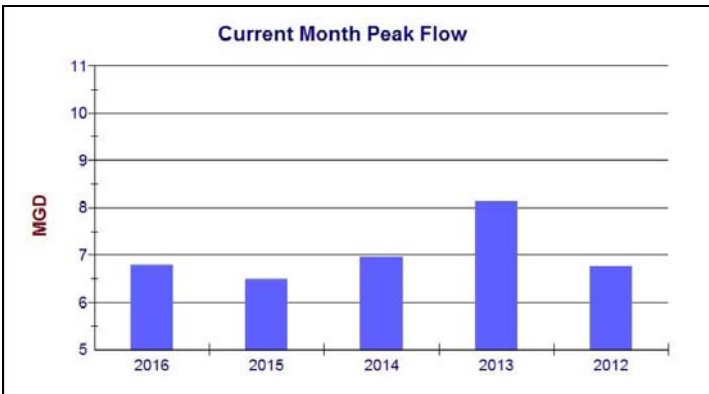
6.32 inches of rainfall were recorded at the plant site during the month of June.



The treatment plant incoming flow for the month of June averaged 6.26 MGD compared to 6.22 MGD one year ago for the same month.

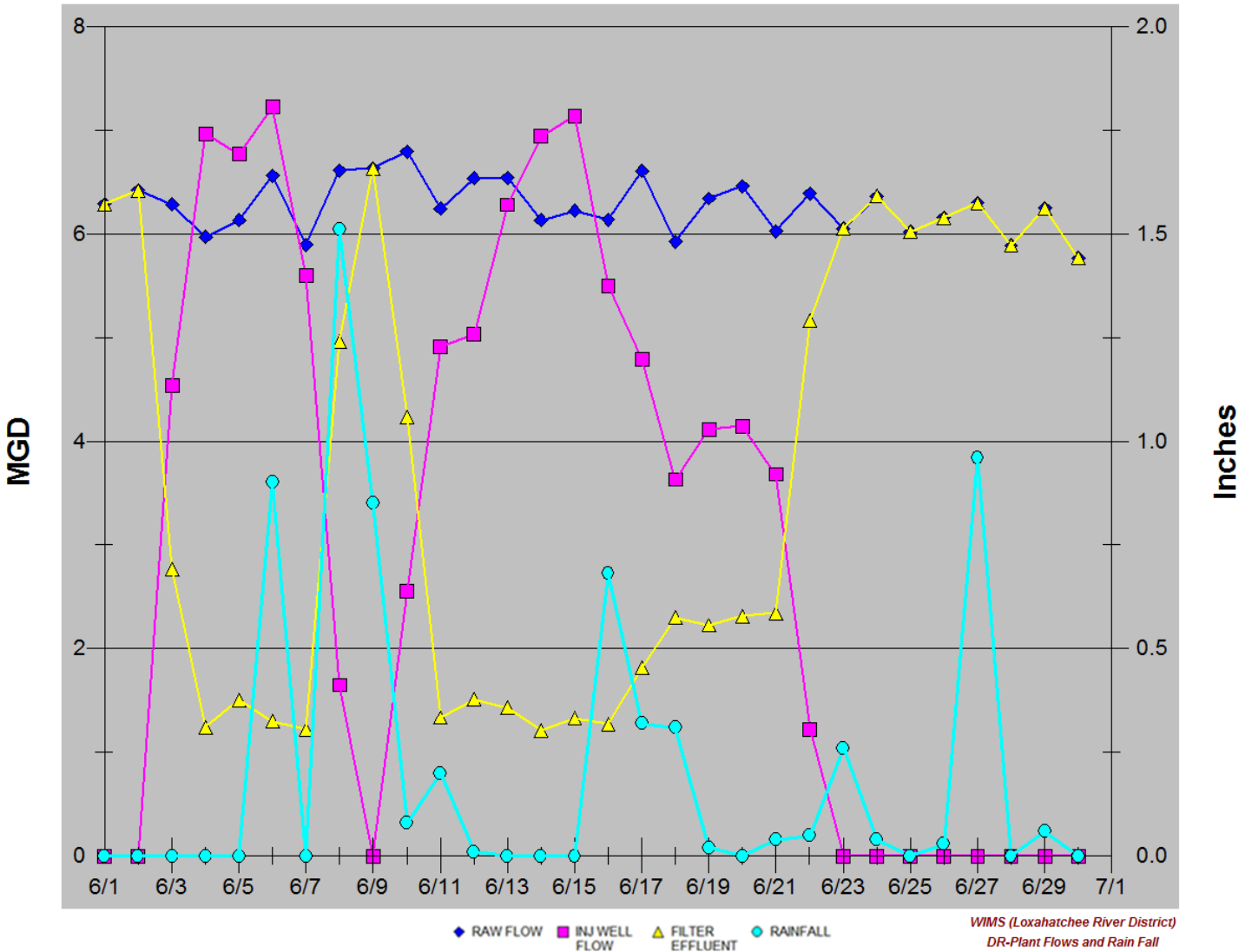


The peak hourly flow rate in June was 8.53 MGD.



The greatest single day average flow in June was 6.79 MGD.

The plant received 187.93 MG of influent flow of which 109.62 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 6.32 inches of rain during the month, 92.70 million gallons of blended effluent was diverted to the Injection Well. Overall, 58.33% of incoming flows was recycled for IQ use and the plant delivered 146.01 million gallons of IQ water to the Reuse customers.



For the year 2016, the plant recycled 50.71% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 695.85 million gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

TRAINING. Training for the month of June reviewed Arc Flash electrical hazards. Safe work practices must be followed by qualified personnel who may come in contact with live energy sources. Prior to performing maintenance on energized electrical equipment, employees must determine the proper levels of PPE and specialized tools that will be required to complete the task safely. Insulated tools, gloves, face shields, and insulated blankets are all examples of the equipment used by District electricians throughout their day.



D.E.P. The District hosted four testing sessions, over a two day period, for operators to advance their certifications in water and wastewater. With over one hundred people visiting our location every month, the Loxahatchee River District has become a well-known source for certification testing.

The DEP has recently updated their logo. While the logo may have changed the strict testing criteria remains the same.

CEU's. The District has also begun hosting safety training classes every month for licensed operators to gain valuable safety knowledge as well as earn required CEU's (Continuing Education Credits) towards their current license renewal cycle.

During the month of June, Intro to Water Utility Safety was held in the Operations Education room. Employees from St. Lucie West, Coral Springs, and other utilities joined together to discuss important hazard areas that may be encountered working for a water utility.

The next safety training course has already been scheduled for July, and looks as if attendance will be increasing, given the feedback received from surrounding utilities. The District's centralized location and ease of access from I-95 or the Turnpike make us an ideal spot to train with others working in the water and wastewater industry.

The District has zero injuries or lost time to report for the month of June.

Collections and Transmissions Division

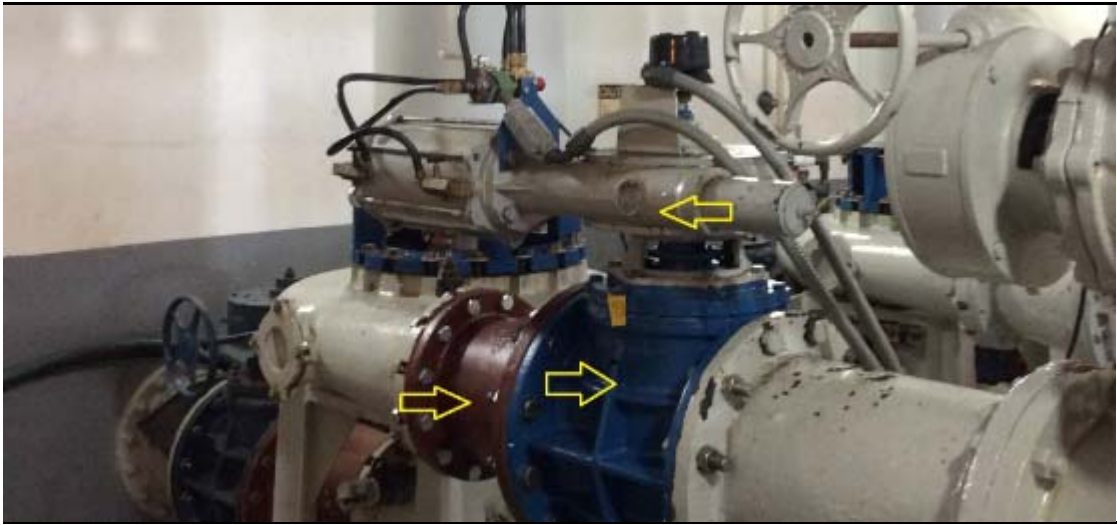
BELOW. Material Handling Systems, the company that does inspections and repairs for District hoists and lifts rebuilt the three ton electric hoist from Master Lift Station #1. A service technician is installing the rebuilt hoist with assistance from District employees.



RIGHT. Lift station #151, a budgeted project for lift station refurbishment, was completed by contractor Felix Construction. They poured a new six inch thick floor and installed new pump base elbows on existing base plates, installed per design plans, HDPE discharge piping with in wet well, and new 6" isolation valves in existing valve pit. A portion of the road was in scope of the project which included work to a collection manhole. station bypass, set up, monitoring and maintaining was performed by District Operation's crews during the project.



BELOW. District route crews performed the replacement of a 14 inch plug check valve and reducer on discharge piping for the 200 horse power motor/pump on the lower operating floor. After the new valve install, crews installed a spare electric/pneumatic actuator and tested/adjusted for proper operation. The check valve is tied into the PLC (programmable logic computer) system for correct timing on opening and closing of the pump.



RIGHT. Abacoa Reclaimed water Master pump station #518 had route technicians monitor the backwash times of strainers to determine optimum time to disassemble, inspect, and clean the interior (specifically the poro-edge straining tubes) with a .010 inch nominal slot for solids removal. There are three strainers rated at 3050 gallons per minute.



LEFT. For the reporting month, 8 new low pressure systems came online in the low pressure pump station system. Also, 1 existing simplex low pressure was converted to duplex low pressure station District Standards.

District Vac Con Crews cleaned the following lift stations in June 2016; #83, 7, 174, 53, 73, 76, 124, 256, 88, 18, 170, 25, 166, 83, 51, 93, 13, 171.

During reporting month, there were no major systems or equipment failures in Collection/Transmission systems that caused emergency or systems to not operate normally.

Maintenance

BELOW. A District Electrician, Bob Ward, has taken a display that was just a few tanks and pictures and has created a working display that shows the flow of waste water through its components. He has designed a PLC program that controls valves allowing for flow between stations. This will enable visitors to interact with each station and see the waste water process.



Tidbits from Tom

June, 2016 – Father’s Day



Often times we fail to realize the impact our actions have on other people, especially the people we love the most. (I read the following in a magazine while waiting in the Doctor’s office.)

THE VALUE OF TIME

THERE WAS A TINY, ALMOST INAUDIBLE KNOCK AT THE DOOR. “Yes,” grumbled Sam from behind the desk.

The door opened and Sam’s young son, Chris, poked his head into the study. “Dad?” he asked.

“What is it?” Sam answered, never taking his eyes off the computer screen in front of him.

Chris walked across the room and placed his piggy bank on his father’s desk. The bank had a note on it that read: Disney World Vacation Spring 2005. “It’s full now,” the child murmured.

“That’s great. Can we talk about this later, though?” Sam asked. “I’m in the middle of something right now. Remember—a closed door means that Daddy is busy and should not be disturbed.”

“I remember,” Chris nodded. “And I also remember that your *time* is val-u-a-ble, too.

That’s why I brought my money.” The boy placed his favorite storybook on the desk, next to the bank.

“If I pay you for your time, will you read to me?”

Sam blushed. Yes, indeed, he’d managed to make his son understand that time is money.

But at what cost? He turned off his computer and reached for Chris. “Come here,” Sam said.

He scooped the boy into his lap and hugged him. “I guess I forgot to tell you the absolutely most important thing to remember.”

“What’s that, Daddy?”

“The time we spend together is *priceless*.” And, for the first (but not last) time, Sam began to read Chris’s favorite storybook to him.

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

**Tom Vaughn
Director of Operations**