

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

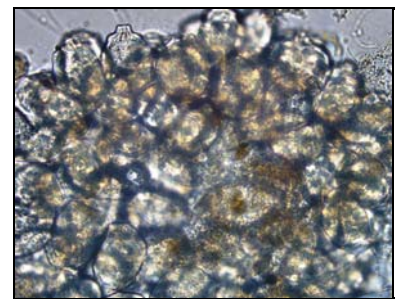
FROM: Tom Vaughn, Director of Operations

DATE: January 8, 2015

SUBJECT: Operations Department Monthly
Report for December 2014

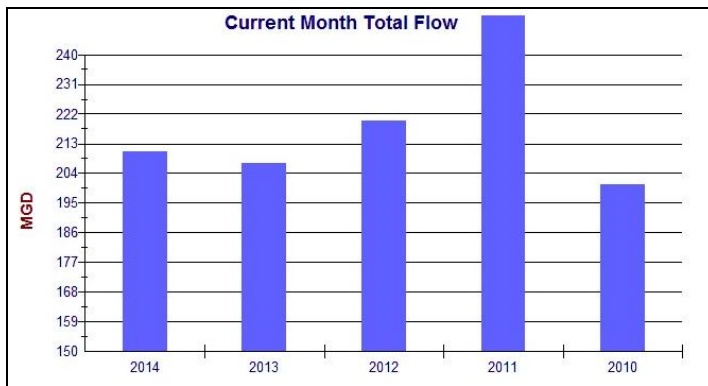
Treatment Plant Division

BELOW. Our obsolete laboratory Micro-scope was replaced with a new Leica DM 1000. These new images will be instrumental for classroom training materials as well as improving Process Control.

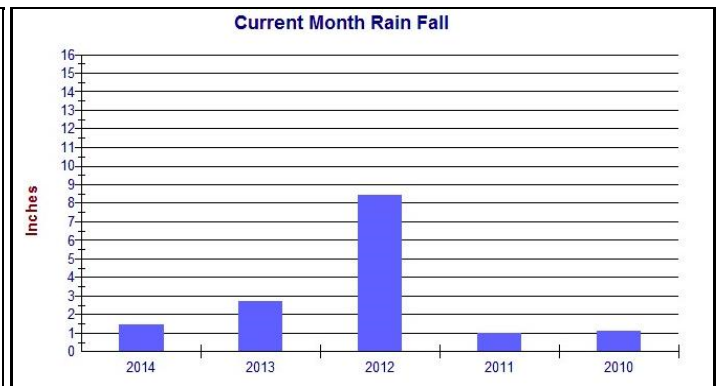


LEFT. New SCADA computers and furniture were installed to upgrade our Control room.

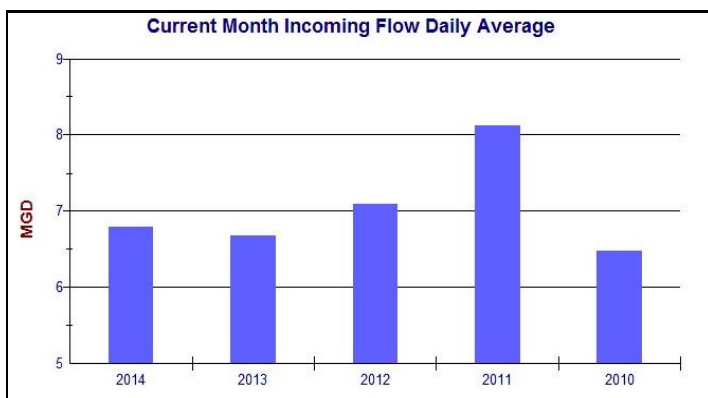
We have had another great month of no Permit exceedances.



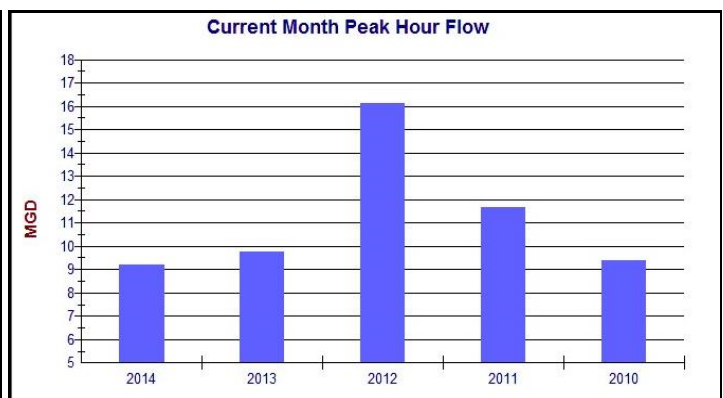
The plant total flow for the month of December was 210.60 million gallons.



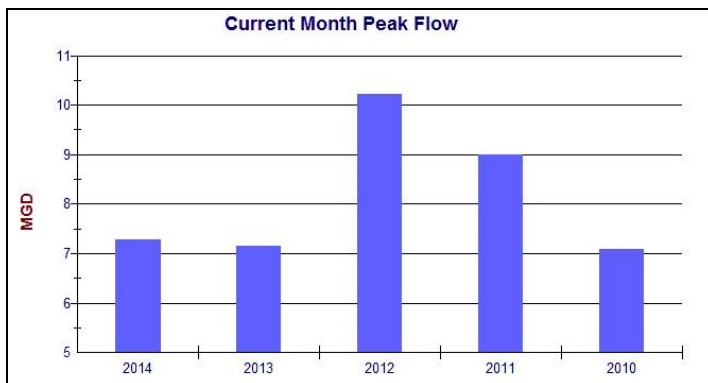
1.44 inches of rainfall were recorded at the plant site during the month of December.



The treatment plant incoming flow for the month of December averaged 6.79 MGD compared to 6.68 MGD one year ago for the same month.

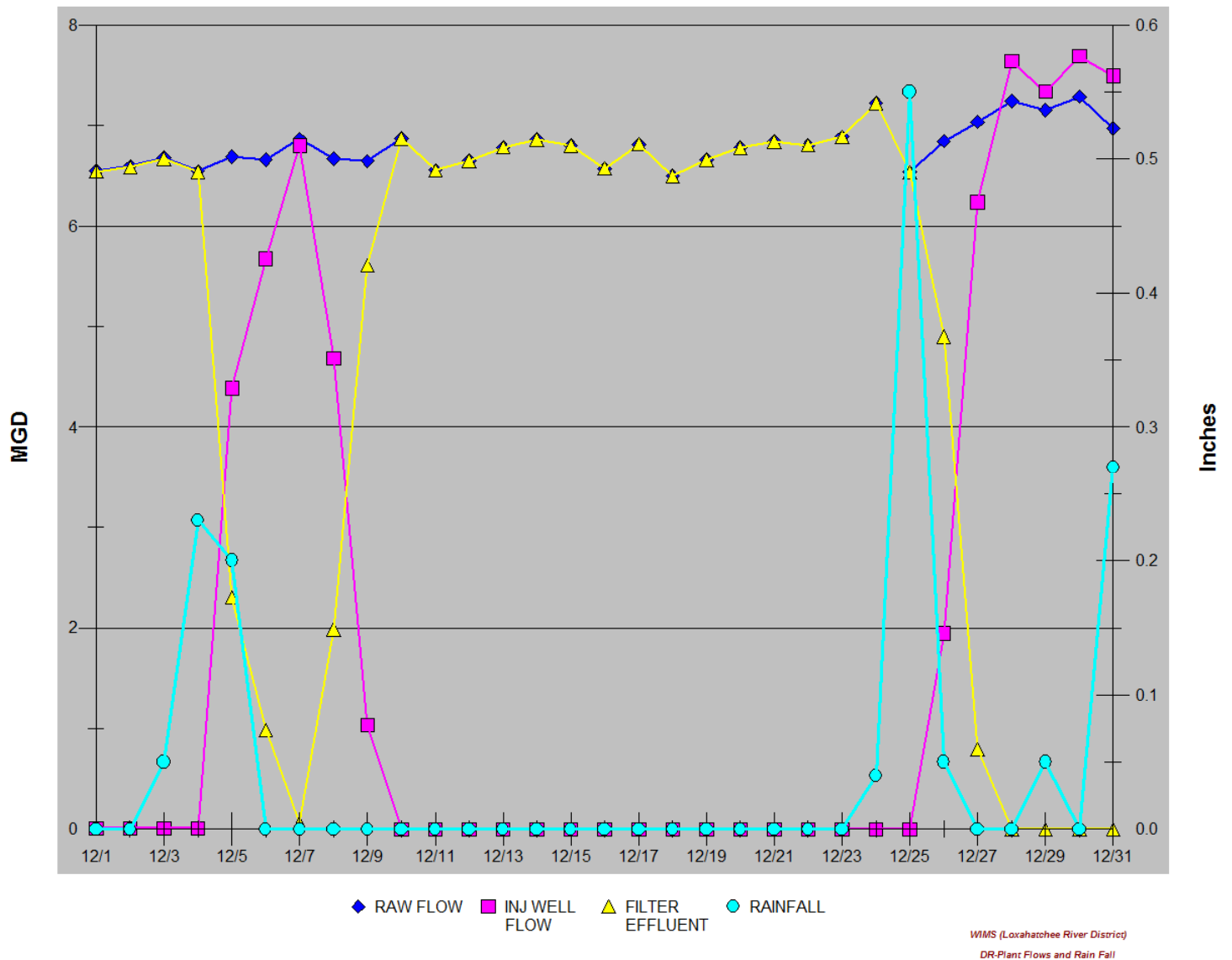


The peak hourly flow rate in December was 9.21 MGD.



The greatest single day average flow in December was 7.29 MGD.

The plant received 210.60 MG of influent flow of which 151.13 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 1.44 inches of rain during the month, 60.97 million gallons of blended effluent was diverted to the Injection Well. Overall, 71.76% of incoming flows was recycled for IQ use and the plant delivered 162.51 million gallons of IQ water to the Reuse customers.



For the year 2014, the plant recycled 63.34% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 1.62 billion gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

TRAINING. Jason Argraves attended a training seminar conducted by the Palm Beach Safety Council regarding drugs in the work place. Medical marijuana and legalization in some states have brought up new challenges for Safety and Compliance involving testing the use of heavy equipment and safety throughout the workday.

Training for the month of December involved ladder safety. Employees of the District were informed on the many types and specific uses of ladders as well as the proper selection for the task at hand. "Always use the right tool for the job".



INSPECTIONS. The annual crane inspections were completed for the plant as well as the Master Lift Station. All cranes are in full compliance and excellent working order. Testing was done by Material Handling Inc. based in Dania Florida.



The FOG (fat, oils, grease) sampling program continued our monthly inspections. Tom Koch from engineering, Sue Noel from Wildpine Lab and myself have been pleased with the findings to date. All inspections have found our customers to be in compliance.



DEP TESTING. The DEP held operator certification testing on December 16th and had full attendance for both the morning and afternoon sessions. The DEP has expressed interest in having the Loxahatchee River District become a permanent certification testing site based on our location and facility accommodations. Information is being gathered to be sure this move is advantageous for both parties.

Collections and Transmissions Division

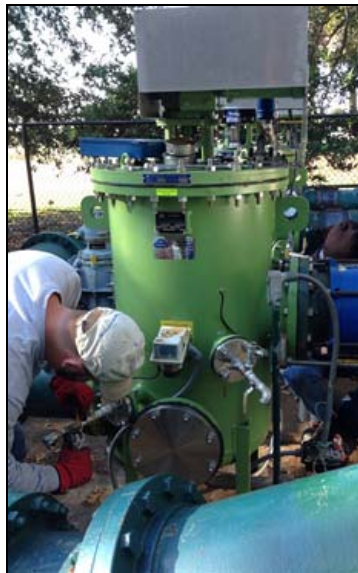


LEFT. The District's Collection Crew took delivery of three new Wacker Nuesen 80KW portable generators in December of 2014.

The generators were a Capital Purchase that will be added to the current inventory of portable equipment. Portable equipment is for field and plant usage on scheduled projects and emergency conditions in the field Collection/Transmission system.

BELOW. The District's Crew installed a new Reclaimed Water Strainer at Abacoa IQ#518 and sent the old strainer back to the factory for refurbishment.

The newly installed Strainer was a Capital Purchase. This Strainer has the new option of a rubber-lined vessel and unlined internal components to be stainless steel. The goal is for all pump station strainer units to be rubber-lined for long term productivity.



BELOW. The District's Reuse Technicians worked with Abacoa POA (property owner's association) in supplying properly marked containers and Reclaimed water marked garden hoses for the residential community garden. The equipment is for garden members only to use in hand watering within the garden boundaries.



BELOW. The District's Collection Crew prepared the wet well at lift station #48 for a scheduled inspection by the District Engineering Inspector.

The crew plugged the gravity main, cleaned the wet well, pulled pumps and floats, and set up for Confined Space Entry by situating the man rated retrieval system and monitoring atmosphere conditions in the well as per safety protocol.



RIGHT. The District's VacCon crew is pictured here utilizing the new debris settling/draining location on Plant site.

The site is for plant and field usage and is on the southeastern corner of the Process Plant. It was designed by the District's Construction Foreman and constructed by the District's Construction Crew Members.



LEFT. For the reporting month, no (0) new low pressure systems came online in the low pressure pump station system.

The District's VacCon Crew cleaned the following lift stations in December 2014:

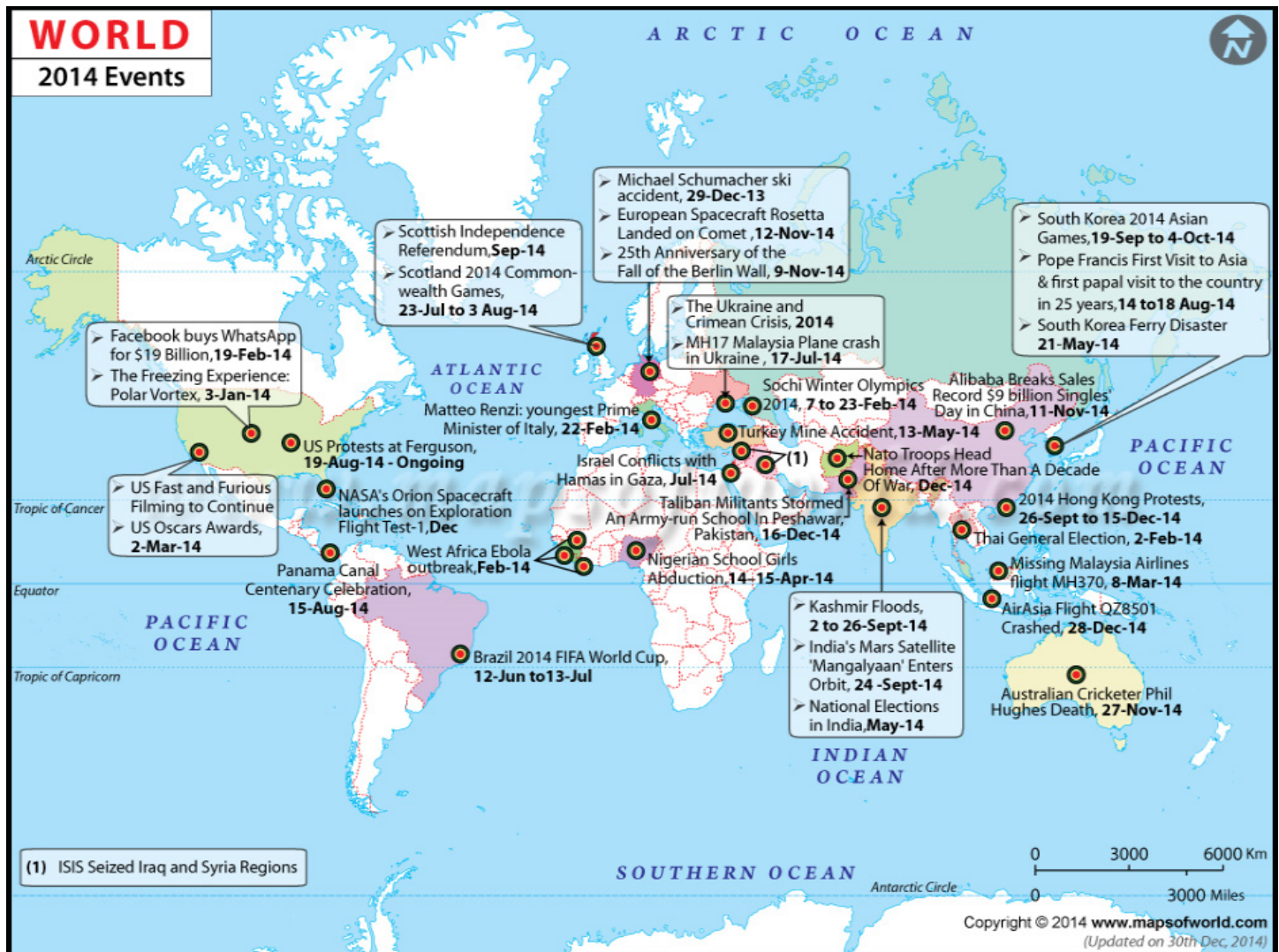
#172, 37, 32, 88, 48, 34, 170, 171, 86, 300, 263, 10, 59, 235, 83, 57, 55, 15, 7, 25, 52, 140, 97, 101, 249, 248, 20, and 8.

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



Tidbits from Tom

December, 2014 – Happy Holidays! The year 2014 saw many important events. Here are a few events that created a stir and dominated the world's attention in 2014:



Perspective

On behalf of the employees of the Operations Department I would like to take this opportunity to Thank You, The Management Staff, and The Board Members for all the benefits and working environment provided us. We are especially appreciative for the continuing medical insurance program. It is appreciated much more than these words can express.

Again, Thank You, Thank You very much. We hope your Holiday Season was as good as you made ours.

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

Tom Vaughn
Director of Operations