

 THE ISLAND WATER ASSOCIATION, INC.
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IWA NEEDS YOU!!



It's election time at IWA again, and next year two seats on our Board of Directors will be up for election. The seats are currently held by Robert J. Wigley and Robert E. Lindman. Bob W, the Board Vice President/Secretary, and Bob L, the Board Vice President, are eligible for re-election to their second terms of service.

IWA is governed by a five member Board of Directors who serve without pay. Directors must be year-round residents of Sanibel or Captiva so that they can attend all Board meetings and must be IWA Members or an official representative of a condominium or other IWA Corporate Member. Directors serve for a two-year term and may be reelected for a total of no more than three consecutive terms. Meetings are normally held on the fourth Tuesday of every month. Directors are elected by the Membership at IWA's Annual Meeting to be held in April. Anyone who would like to run for one of the open seats should contact our Board Recording Secretary, Beau Stanley, at (239) 472-2113 (extension 114) or via e-mail at beau@islandwater.com by no later than December 31, 2007. A background check will be run on all Board candidates due to security concerns in our post-911 world.

CAPTIVA MAIN PROJECT...

The Captiva main replacement project continues on schedule and on budget. The total budgeted amount for the project is \$3,320,000, which includes the cost of grouting the old abandoned water main. The project was initiated due to a corrosion based failure of the twenty-six year old 12" ductile iron water main that runs along Captiva Drive. We first realized the problem when we experienced a line break in November 2006. We set in motion a thorough study and evaluation of the entire three miles of 12" ductile iron pipe. Corrosion was found at other locations, and it became



The Last Joint of Pipe is "Cut-to-Fit"

obvious that the pipeline had reached the end of its 26 year life. The replacement project was fast-tracked, approved, engineered, permitted and constructed in about a year, utilizing two crews working simultaneously in order to complete the project before season.



Preparation for testing the Line

The last joint of the new pipe was set in the ground on Friday November 7th. Pressure testing, pigging, disinfection, bacteriological testing, and flushing followed. If you have been traveling around Captiva, you have no doubt seen the work crews



Pipe grouting

and flag men. We hope you have not been too inconvenienced. We have tried hard to minimize



Visually checking water flushing results

the impact we have caused by laying a new water main down the side of the road and in some sections, in the road. The final task in the completion of the new water main is transferring the meters over to the new service lines. The service lines should all be transferred by the Christmas holidays. Grouting the old 12" pipe will also continue concurrently. During the flushing process, periodic visual inspections of the water are done, followed by bacteriological testing.

The Lee County Department of Transportation has given April 2008, as the start date of the safety shoulder installation project and asphalt overlayment project. Indeed, Captiva will continue on the path towards its new "look" as the infrastructure improvements continue post Hurricane Charley.

WATER TANK MAINTENANCE...

Did you know that our peak water demand occurs when the restaurants are closed, the washing machines are off, the bathroom showers are silent, and everybody is asleep? It is true; our peak water use periods are from midnight to daybreak when the automatic irrigation timers kick on.

During these peak times, our usage can be more than double our Reverse Osmosis water plant's capacity to process water. How can we pump out more water than we can process? We can do this by drawing from our water storage



Twin five million gallon storage tanks located at the RO Plant

tanks that are strategically placed around the islands. The tanks were built by the Crom Corporation, and they are made of pre-stressed concrete, meaning the walls are wound with miles of high strength wire under tension, to keep the concrete in compression, when it is strongest. The cylindrical pre-stressed concrete storage tanks are an integral part of our water system design and are used to supply water at peak periods, in case of fires, and at times when we may experience equipment failures. You might say it is saving water for the (non) rainy days.

One of the downsides of tougher water restrictions is that they narrow the window of opportunity for outdoor irrigation. We are big supporters of water conservation; however compressing the watering hours makes water utility personnel a little uneasy during these peak watering times. Good thing most of us are asleep! However, we have a system which monitors the usage 24 hours a day and alerts us to these "too-close-for-comfort" periods of high use. The fewer hours that irrigation is allowed puts a higher and higher strain on the capabilities and equipment of water systems to handle the demand and maintain normal pressures in the system.

Being located on barrier islands is another important reason for having water storage capacity. After Hurricane Charley, there were over ten million gallons of water in our tanks which helped us bring the system back online faster than would have been possible without the available reserves.

The Island Water Association has a total of fifteen millions gallons of water storage capacity that we can draw from during peak times and emergencies. We have a one million gallon tank located on Captiva, a two million gallon tank at both Wulfert and Dixie Beach, and we have two five million gallon tanks at our main plant site. The two largest five million gallon tanks were constructed in 1980. the year that the Reverse Osmosis plant came online. At our average daily consumption rate, we have almost five days of storage in reserve. The tanks are located at our booster station sites which collectively house eight propane driven pumps that automatically start when the computer controls call for more water capacity and pressure. Our tanks are inspected, emptied, cleaned, and repaired at a minimum of every five years as is recommended and required by the American Water Works Association, and the Florida Department of Environmental Protection. The tanks are serviced on a staggered schedule so that only one tank is out of service at any one time. The maintenance work is done at the slowest time of the year which is usually late September near the end of hurricane season.

The most recent tank to receive maintenance was the two million gallon tank at the Periwinkle Booster Station. As you can see from the photograph; the inside of the tank is a very impressive structure indeed. The Periwinkle tank was built in 1975 and it is in very good condition due to the maintenance schedule and practices. Our newest tank is the one million gallon tank located on Captiva which was built in 1990. The tanks are just another component in our system which all of the processed water passes through on its journey



Internal Inspection of the two million gallon Periwinkle water storage tank

from our deep wells, the treatment plant, boosters stations, water mains, and finally out our members faucets and spigots. The tanks are here to help make sure water is available when it is needed.

PLANT EXCELLENCE AWARD...

The Florida Department of Environmental Protection, South District, has awarded The Island Water Association water treatment plant the Plant Operations Excellence Award for 2007. IWA was one of only six utilities in the entire state to receive one of these awards. This award is important to us, since it is given by DEP, our regulatory agency, and is therefore a clear indication that we are operating IWA in a safe and reliable manner. We are proud of our operation and it shows in many ways.

BELOW NORMAL RAINFALL...

Below normal rainfall continues after a dry "wet" season. The following chart shows the last twelve months of rain at IWA against the historical average. The November bar only includes rain through the 21st. We have now entered into the "dry" season and it looks like it we will be hearing many more calls for conserving our precious water resources. Please use our water responsibly.

OZZIE'S CHALLENGE

As you have read, irrigation on the islands is where most of our water goes. Ozzie's challenge to you is to set each of your zones to water 5 to 10 minutes less than you currently do. This could have a dramatic effect on how much water goes back into



the ground and most likely will be something you'll never miss. And yes, we know that the hardest part of this challenge is figuring out how to reset those sprinkler systems. But give it a whirl, and let us know how we can help.

HURRICANE SEASON ENDS...

Thankfully, Southwest Florida experienced another mild hurricane season. As the chart shows, most storms turned north while still in the Atlantic, or continued westward well below the Florida peninsula. The downside to this is serious rainfall deficits for Florida and the Southeastern United States. There's nothing like a slow moving tropical system to replenish our aquifers and Lake Okeechobee.



For those of you who are returning from the North, welcome back. To all from IWA, we wish you



