



PRETREATMENT COMMUNICATOR

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A NOTE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Dawn Templin
FDEP Pretreatment Engineer

As we approach the new year, the Department would like to wish everyone a happy holiday season and provide a couple of updates. First, the Department has changed the inspection schedule slightly. We will no longer be conducting technical assistance visits (TAVs) as a pretreatment inspection type. Every pretreatment program will be inspected each year, with either a pretreatment compliance inspection (PCI) or a pretreatment program audit (PPA). Every program will receive four PCIs and one PPA within the five year cycle. We believe that programs will benefit by this change.

Also, the Department has a new employee in pretreatment, **Hsiang-Yu Chou-Hoffman**; I am sure you will be meeting her on inspections shortly. Please welcome her when you meet her. **Sam Jinkins** and I are still with the pretreatment program. The State Pretreatment Coordinator position has not been filled yet. If you have questions regarding your pretreatment program, please call any one of us for assistance at (850) 245-8605.

We look forward to working with you this upcoming year.

PRETREATMENT FROM A UTILITY MANAGEMENT STANDPOINT

Migdalia Hernandez
City of Sanford

Like most pretreatment programs, the City of Sanford's program can be difficult to understand because most people are not aware of the rules and regulations governing this program. In an effort to educate City employees and customers, the Utility department

started a series of articles to explain the program's mission and goals. To kick off this effort the team published the following article in the City of Sanford's employee newsletter:

Green solutions are very important for government operations today. One great example of a **green** solution is the City of Sanford's Pretreatment Program. It serves as a tool to reduce energy costs needed at the water reclamation facilities to treat non-compatible pollutants. The City's Pretreatment Environmental Program was implemented in the early 1980s. It is required by the State of Florida under the City's Water Reclamation Facilities operational permit. It is considered necessary to protect public health; maintain employee's safety; protect the sewer collection system from sewer backups; eliminate toxic and explosive discharges; protect receiving surface waters thus protecting plants and wildlife; and for surface water sustainability for recreational use and as a future source of our drinking water supply. This program is
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FIPA STATE AWARD WINNERS ANNOUNCED!

At the October FIPA Workshop held in Orlando, the John Parnell and Robert Heilman awards were presented to the 2007 winners:

Randy Greer was presented with the **John Parnell Award** for his dedication to the advancement of Florida Industrial Pretreatment. Randy is an instructor in FIPA certification course, has presented at workshops, and contributes to the newsletter.

The City of St. Petersburg was the recipient of the **Robert Heilman Award** for its contributions to FIPA as well as collaborative and innovative approach in administering the IP program. **Janet DeBiasio** accepted the award for the City.

CONGRATULATIONS!

TRAINING OPPORTUNITIES

March. 25	TREEO/FDEP Sampling SOP Training	Gainesville
March. 26	TREEO/FDEP Sampling SOP Training	Gainesville
	http://www.treeo.ufl.edu/course.aspx?p=39&c=2314	
April 8-11	EPA/WEF Industrial Pretreatment Course	St. Louis, MO
	www.wef.org	



A MESSAGE FROM THE PRESIDENT

Mark Mathis
FIPA President



The folks in Orlando did a great job hosting the fall workshop. Our association has certainly come a long way since its incorporation in 2001. I want to thank you all for your confidence in electing me as FIPA

President. As you know Florida experienced severe drought conditions in 2007. Neighboring states are still feeling effects of the drought and the water situation for 2008 doesn't look good. Many of you have no doubt noticed downturns in manufacturing as a result of reduced construction and home sales. Tough times such as these can present opportunities for industry to review processes to see if there are ways to conserve resources and improve efficiency. I'd like to share with you a categorical industrial user that has done just that. One of the things that I enjoy most through my involvement with the Pretreatment Program is doing facility inspections. Folks in Pretreatment Programs are a select few that get to go behind the scenes to see manufacturing processes. The Ft. Pierce program recently completed the annual inspection of a mirror production facility. The making of a mirror is an amazing process that seems almost magic. After thoroughly cleaning and rinsing with de-ionized water the glass passes under a spray application of silver-nitrate solution. Mind you that the silver-nitrate solution is

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crystal clear. When the solution is applied a thin layer of silver forms on the glass creating a reflective coating and like magic a mirror is produced.

Ft. Pierce actually regulates two mirror manufacturers. Facility A is the older of the two. Production managers for facility A seem to live by the philosophy that if you always do what you've always done, you'll always get what you've always gotten. In contrast the managers for Facility B continually look for ways to improve and conserve. Both facilities were designed with traditional style de-ionized water systems. These systems require chemicals to regenerate ion exchange media and tend to use a lot of potable water in order to produce the de-ionized water needed to make mirrors.

Facility B recently replaced its aging de-ionized water system with a modular canister type system. When ion exchange media canisters become fouled, fresh canisters are placed in service and the fouled canisters are regenerated offsite. Offsite regeneration eliminates the need for the industry to maintain an inventory of chemicals and significantly reduces water usage. It also reduces employee exposure to hazardous chemicals, and the potential for off specification pH discharges. The capital cost of the new modular system was less than
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REGISTRATION TIME

Tis the season of giving, that goes for FIPA too! Its time to renew your FIPA membership for the 2008 calendar year. You can download a registration form from our website at: www.fipaonline.com

Remember that dues are now \$30/year. Please mail your forms and checks to:

FIPA, PO Box 3434 Seminole, FL 33775

The **Pretreatment Communicator** is a semi-quarterly production of the Florida Industrial Pretreatment Association (FIPA). The **Pretreatment Communicator** encourages participation from its readers and any other individuals interested in pretreatment in the State of Florida. Please submit any comments, ideas, or articles to Pretreatment Communicator c/o Dan Parnell, 21 W. Church St. T-8, Jacksonville FL 32202 or email to parmdp@jea.com. The Pretreatment Communicator reserves full editorial rights to all submissions. FIPA assumes no responsibility for the statements or opinions expressed in this newsletter. Views and information contained in this newsletter are those of the authors and do not necessarily reflect those of FIPA.
Editor – Dan Parnell

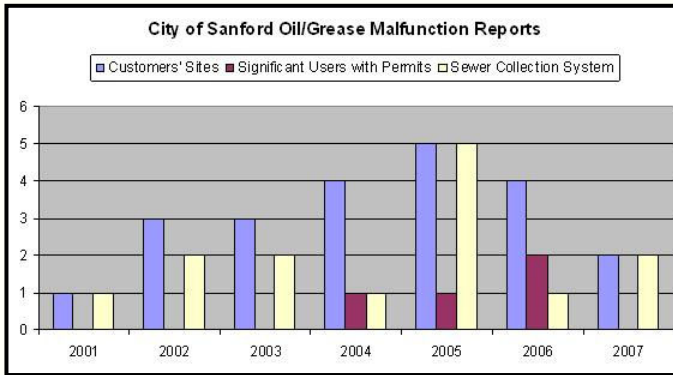


Chart A – Sewer backup reductions in Sanford

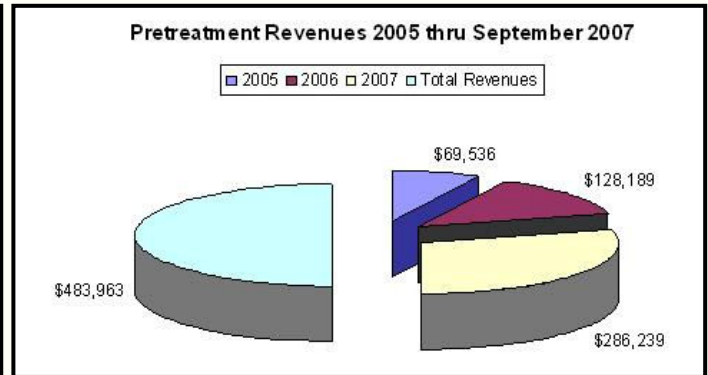


Chart B – IP generated revenues since 2005

(Utility, Continued from page 1)

staffed by Alma Echevarria, Lamar Bass and James Keller. It is under the Plants Division supervised by Charlie Turner (Industrial/Significant business) and Richard Casella (Oil/Grease Management Program). Through the implementation of the Pretreatment program the City has seen both environmental benefits and improvements to the utility.

City's Sewer/Plant Improvements – Chart A shows how sewer backups were reduced considerably at commercial sites thru permitting requirements. Customer's home overflows have also decreased. Brochures and other information are delivered to each home owner and businesses addressing proper management of oil/grease disposal every year thru both utility billing services and permit applications. Pretreatment revenues are used to manage this environmental program including personnel; equipment; laboratory costs; and some chemicals for pollutant treatment and proper disposal. Total revenues of \$483,963 have been added to City's budget since this program started in 2005 (see Chart B). A reduction in sewer backup insurance claims against the City is an added benefit from this program. *Code Violation Fines and Surcharges are used to improve environmental compliance* - About \$1,000,000 of assessed fines and surcharges have been credited to commercial businesses and industries to improve their on-site pretreatment systems. Reclaimed water quality has improved substantially during the last few years leading to the City's compliance with state treatment facilities operational permit and the Clean Water Act. This program will also help with proposed Total Maximum Daily Loading (TMDLs) discharge limits to impaired waters such as Lake Monroe and Lake Jessup.

By promoting the City of Sanford's Pretreatment program, we are demonstrating the value a well run pretreatment program brings to the Utility.

JEA FLAGGED FOR OUTSTANDING PRETREATMENT

The JEA Industrial Pretreatment program was awarded first place in EPA's 2007 Clean Water Act Recognition award for large Pretreatment Programs. JEA's program was recognized as a cost-effective collaborative approach for regulating industries and commercial businesses that discharge to the sewer system. The JEA approach is beneficial to industries and has demonstrated improvements in the environment.

CONGRATULATIONS JEA!!



JEA IP team members D. Parnell, G. McKendree, S. Sprinkle, J. Compton, D. Stamper, C. Jacobs with EPA Award flag

(Message, Continued from page 2)

the cost of a traditional style de-ionized water system. The modular replacement system is helping facility managers meet water conservation goals and while delivering high quality de-ionized water. Reductions in chemical costs alone add up quick. Changes like this can give one manufacturer a competitive edge over another. So, the next time you look in the mirror...consider adding water conservation to your list of facility inspection topics for 2008. I think you'll find most industries eager to talk about ways to cut operating costs and improve efficiency.

If you have a question concerning FIPA or need assistance with renewing your dues please contact Kim Meyer at secretary@fipaonline.com

NACWA NATIONAL PRETREATMENT AND POLLUTION PREVENTION WORKSHOP

The National Association of Clean Water Agencies (NACWA) held it's annual Industrial Pretreatment and Pollution Prevention workshop in Denver last month. The workshop included participants from pretreatment programs, various state agencies, and the EPA.

EPA discussed the status of the Effluent Guidelines plan (see article to the right), as well as developing metrics to measure the progress of Pretreatment programs. NACWA will be working with EPA on the development of these metrics to ensure they are both meaningful and achievable.

Topics at the workshop included:

- New Laboratory and Sampling Issues
- Hauled Wastewater
- Alternative Fuels
- Pharmaceutical Take Back Programs
- Consumer Products
- Pretreatment and Infrastructure
- Enforcement Case Studies

If you are interested in any of these topics, the presentations can be downloaded from the NACWA website at:

www.nacwa.org

EFFLUENT GUIDELINES UPDATE

In October, EPA released its Preliminary Effluent Guidelines Program. As you recall, or if you recall, the EPA Effluent Guidelines Program is required to review annually existing categorical industries to determine if effluent guidelines and pretreatment standards need to be modified. The agency will also evaluate for potential new industries to establish guidelines or pretreatment standards.

For 2008, the EPA will review two existing categorical industries, Centralized Waste Treatment and Waste Combustors, for preliminary review. So what does this mean? In 2008, EPA will review these 2 categories to determine if there is a need for further review. No new industries were identified for review.

In previous studies EPA identified the following current categories; Steam Electric Power Generation, Coal Mining, Oil and Gas Extraction and Hospitals (direct dischargers only). These guidelines are still being studied for potential modifications.

EPA has previously identified the following industries as possible new categories; Health Services Industries, Drinking Water Treatment, and Airport Deicing (cool, huh?). These potentially new categories are all in different stages of being studied.

The Effluent Guidelines web page has been redesigned and is much easier to find information concerning categorical users. Check out the new and improved site at:

<http://www.epa.gov/waterscience/guide/index.html>

*FIPA and FDEP Wishes Everyone
A Happy and Safe Holiday Season !!*