

# FOCUS ON FLORIDA

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## CAPE CORAL CANAL PROJECT: XP SWMM MITIGATES FLOODING

*Written by Southern DataStream*

“Cape Coral is located in western Lee County on a peninsula bounded on three sides by waters of the Calloosahatchee River and Matlacha Pass.

The City of Cape Coral proposed to raise the crest elevations of five of the several weirs in the canal system to create additional storage availability for wet season storage and dry season draw-downs.

*The Challenge:* to mitigate the risk of increased flooding due to higher tail-water elevations.

*The Solution:* For contracted consulting engineers to develop a Storm Water Management Model using XP-SWMM to simulate a scenario of one-foot higher elevation for selected weirs. The simulated water levels were then compared to the water elevations of other existing structures to determine whether the elevated weirs cause any additional flooding.



Cape Coral Canal System

**The Result:**

*Very little additional Flooding due to increased weir crest elevations, posing no threat to loss of life or destruction of property. Horseshoe Canal reached the highest elevation, at 0.8 foot.”*

For more information on the Cape Coral Canal Project, visit:  
[Http://www.caloosahatchee.org/capecoral](http://www.caloosahatchee.org/capecoral)



**AUTHORIZED CONTINUING EDUCATION PROVIDER**

XP Software is an authorized Florida Board of Professional Engineers Continuing Education Provider. PDH credit hours are available for XP-SWMM training workshops.

**SWFWMD PURCHASES LICENSE OF XP-SWMM**

Southwest Florida Water Management District (SWFWMD) has purchased a license of XP-SWMM, award-winning storm water and wastewater modeling software. Local consultants will now be able to submit proposals in XP-SWMM models to the SWFWMD for regulatory review.

## Dade County and XP Software: A Model Situation for the Local Economy and Citizens' Health

### THE CHALLENGE FROM THE EPA

The United States Environmental Protection Agency (EPA) alleged that the wastewater infrastructure of Metropolitan Dade County endangered the health and welfare of citizens by illegally discharging untreated wastewater from the collection and transmission system. In 1995, the Miami-Dade Water and Sewer Department negotiated a Consent Decree settlement with the EPA to install and maintain a computerized

collection and transmission system that would reduce the incidence of these illegal discharges and predict flow and pressures in conduits, wastewater overflows and in-line storage capacity. Yet developing and implementing such a system posed a significant challenge due to the complexity and size of the largest collection and transmis-

sion system in Florida (329,000 retail customers; a relatively flat 400-square-mile service area; 1,500 pipes of force main; 2,500 miles of gravity sewer; 900 Department pumps, re-pumps and booster stations; and wastewater flows from an additional 900 private pump stations).

### DEVELOPING A CUSTOMIZED AND INTEGRATED APPROACH

The Miami-Dade Water and Sewer Department strove to implement a variety of new technologies in the form of a "Virtual Dynamic Computer Model" that could predict potential sanitary sewer overflows resulting from peak flow conditions. In addition, the modeling software chosen by the Department needed to be able to simultaneously model gravity and manifold systems. The Department decided upon XP Software's XP-SWMM (Storm Water Management Model). XP-SWMM2000 enabled engineers to model both pressure and gravity systems, as well as incorporate data from a variety of external sources. Additionally, XP-SWMM2000 was customized to

meet the Department's specific needs, including improved stability for pumps, enhanced graphical output capabilities, special conduit features to include minor pump losses, and several output and simulation parameters for a variety of model requirements.

To complete its Virtual Dynamic Computer Model, the Department integrated XP-SWMM2000 with GIS technology (to develop flow projections based on customer data), GPS technology (to determine the elevation of all water and sewer structures within 2 to 3 cm), WSI's NEXRad Weather for Windows and Virtual Rain Gauge (to continuously measure actual rainfall amounts throughout the county), and a variety of databases.

### REAPING THE BENEFITS

Estimates indicate that the Model has been used to eliminate more than \$20,000,000 in construction projects now deemed unnecessary or unneeded. Additionally, the Model has eliminated sewer system overflows and significantly contributed to improved water quality.

## Nationally Recognized Water Resource Engineer Joins XP Software

Bob Carr, the incoming Chair of the American Public Works Association's (APWA's) Water Resource Management Committee, has joined XP Software as a Senior Water Resource Engineer.

demonstrate the features of XP Software's award-winning stormwater and wastewater modeling software throughout North America. Immediately prior to joining XP Software, Carr worked as a water resource engineer with international consulting firm Earth Tech.

Carr will conduct training, provide support and

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### XP-SWMM TRAINING IN MIAMI AUGUST 8TH AND 9TH, 2002

Our Miami workshop will concentrate on the application of XP-SWMM2000 for storm water quantity/quality and wastewater modeling. This course will benefit all water resources engineers in their understanding of the engineering problems that are handled by XP-SWMM2000, setting up, and maintaining an XP-SWMM model. Users will advance their modeling skills by applying XP-SWMM2000 to typical engineering problems such as surface flooding, pond outlet structures, inlet restriction, dual drainage and sewer overflows.

Registration fee is \$895.00 per person. This cost includes daily snacks and lunches, workshop notes and a trial version of XP-SWMM. Attendees also have the option to purchase a 10-Node license of XP-SWMM for \$100.00 at the time of registration.

***To Register: Call training services toll-free at 1-888-554-5022***

Or register over the internet! Visit our on-line registration site at: [http://www.xpsoftware.com.au/store/form\\_workshop.htm](http://www.xpsoftware.com.au/store/form_workshop.htm)

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## FOCUS ON FLORIDA DISCOUNT BUNDLE PACKAGE

XP-SWMM2000 is the most comprehensive solution for waste water and storm water design and flood inundation mapping at a moderate price point. When registering for training, Florida clients now have a unique opportunity to purchase an XP-SWMM modeling package designed especially for you at nearly half the cost. Offer Expires September 15, 2002.

***For \$5,995.00 you get:***

- >One 2,000 Node license of XP-SWMM2000, v8.05
- >One GIS Add-on Module
- >12 months product maintenance
- >12 months technical support, *unlimited minutes*
- >Pass for one to a 2-day public training workshop

**Retail value of  
\$11,235.00!!!!**

## Products

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**XP-SWMM**

**XP-UDD**

**XP-12D**

**XP-GIS**

**XP-RAT**

**XP-Culvert**

## Services

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**Onsite  
Training**

**Public  
Workshops**

**Custom  
Integration**

**Sub-  
consulting**

## About XP Software

XP Software has provided civil engineers and municipalities with award-winning software for hydrology, drainage, sewage, water supply and water-quality applications since 1970. A pioneer in dynamic hydraulic software in Australia, XP Software currently maintains offices worldwide. Our flagship product, XP-SWMM is the only economical software package that provides all the major hydrology methods to allow you to estimate your storm water inflows, waste water, dry weather and infiltration flows. The software provides a fast solution for analyzing the design of your most complex hydraulic networks; including loop, boundary conditions and distributed storage structures.

For more information or for a complimentary evaluation license, please visit [www.xpsoftware.com](http://www.xpsoftware.com).

## To Contact us

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[www.xpsoftware.com](http://www.xpsoftware.com)

### **Or Visit us!**

*Meet the staff of XP Software, here's where we'll be in 2002:*

XP-SWMM2000 Training Workshop, Denver, CO July 25 & 26

XP-SWMM2000 Training Workshop, Miami, FL August 8 & 9

CSCE/ASCE Niagara Falls, Canada July 21 -24

Second Federal Hydro Modeling Conference, Las Vegas, NV July 28 -Aug. 1

StormCon Marcos Island, FL August 13 -15

9ICUD Portland, OR September 8 -13

APWA Kansas City, MO September 22 - 25

WEFTEC2002 Chicago September 28 - October 2

XP-SWMM2000 Training Workshop, Los Angeles, CA October 17 -18

APWA Wisconsin November 13 -15

CPWA Toronto, Canada December 4 -5