

# XP Software

## 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 weirs in the canal system to create additional storage availability for wet season storage and dry season draw-downs. The following outline summarizes the project's highlights:



*Arial photo of Cape Coral*

#### **The Challenge:**

To mitigate the risk of increased flooding due to higher tail-water elevations.

#### **The Solution:**

Develop a Storm Water Management Model using XP-SWMM to simulate a scenario of one-foot higher elevation for selected weirs.

Compare simulated water levels to the water elevations of other existing structures to determine whether the elevated weirs cause any additional flooding.

#### **The Result:**

XP-SWMM confirmed that there would be very little additional Flooding due to increased weir crest elevations, and that the raised crest posed and no threat to loss of life or destruction of property. Horseshoe Canal reached the highest elevation, at 0.8 foot."

### For further information

*For additional information on XP-SWMM, please contact your local sales office:*

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