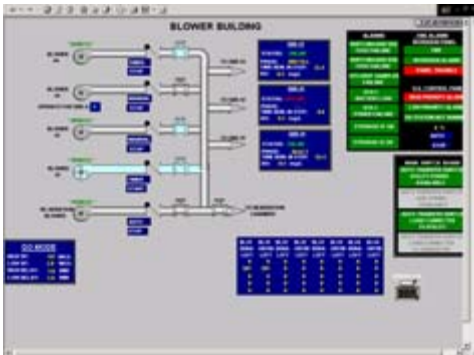# Industry:  Water and Wastewater Processing

## Customer:  East Coast Water and Wastewater Co.
## East Coast, USA

East Coast Water and Wastewater Company (ECWW) is a large water production and sewage treatment operation on the East Coast of the United States.  ECWW is one of many water and wastewater companies managing water production and waste removal facilities across the United States and Canada which are using ICONICS products to manage their operations.



*East Coast Water & Wastewater Company*

## ICONICS Software Deployed

Over 70 ICONICS GENESIS32 SCADA Workstations in 32 different plants performing supervisory functions, using GraphWorX32, AlarmWorX32, TrendWorX32, ScriptWorX32, Multimedia Alarm Annunciation, and WebHMI products.



*Sewer Plant Blower Building*

## Key Features

OPC enabled Local and WebHMI based Water and Wastewater Processing using WEB Browser Thin Client Internet technology to provide production, maintenance and management personnel with real-time visualization and important Alarm information. Every aspect of potable water production and sewage processing is controlled and supervised using the ICONICS GENESIS32 SCADA capabilities with real-time Web access via ICONICS GenBroker Technology and Bristol Babcock RTU I/O hardware products.  These systems provide a cost-effective means of providing alarms, data, and trends to operations and management on demand.



*Filter Trends Over Time*

## Project Summary

Over 200 Management and Operations personnel at ECWW Company utilize the ICONICS WebHMI and GENESIS32 software to monitor and control 32 plants scattered over the entire state.  These systems provide access to information for over 12,000 I/O points via 650 GENESIS32 screens.  Six Thousand of those points are available via 350 WebHMI pages with OPC data.  These view-only screens are available to properly logged-in users on the ECWW Company Wide Area Network.

**Filter Controls Screen**



**Distribution Tank Trends**

## Alarm & Event Archiving to MS Access

In addition to viewing real time alarms and system faults Microsoft™ Access is used to record all Alarms, Events and operator actions for long term alarm archiving and alarm reporting. Local operator stations print the alarms as they occur and store them to local Alarm Logs with AlarmWorX32 Logging. Several local operator stations are equipped with the ICONICS Multimedia Alarm Notifications option software so that supervisors and operators may be notified via alpha-numeric pagers and telephones when critical systems require immediate attention.

## TrendWorX32 - Trending and Logging

Local Operators, Supervisors, and Corporate Office Management staff view Trend Data from the entire system via an ICONICS WebHMI Server using GenBroker routing over their Wide Area Network. Users can view daily, weekly, and longer trends as needed to manage the flow of water through the plants and into the distribution network.
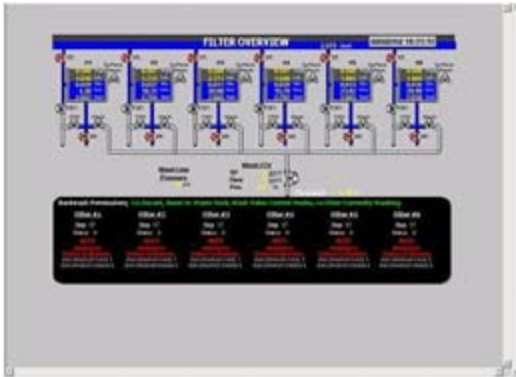
## Centralized Management using Web Browsers

East Coast based, ECWW Company uses WebHMI to provide view-only access for management and supervisory personnel. WebHMI, running on Windows 2000 and Internet Information Server from Microsoft, provides real-time OPC Data for the view-only screens. Six Thousand I/O points are available via 350 Web pages. These screens are available to properly logged-in users on the ECWW Company Wide Area Network   Trends and Overview pages are available, for almost instantaneous access, to qualified personnel.
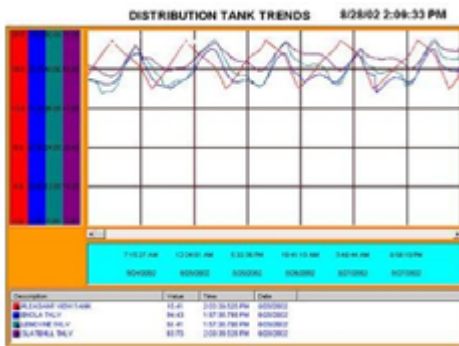
## Centralized Web Security

The communications network backbone of the project depends on TCP/IP and provides good performance for WEB based access to critical process information. A dedicated Windows 2000 PC is used to maintain the centralized License and Security backbone. All WebHMI Users request security permission and login authentication from the centralized Windows 2000 level security system. A system of secure routers and firewalls is used to provide physical security for the TCP/IP WAN.

## Conclusion

ICONICS has worked closely and successfully with ECWW Company and Bristol Babcock, an ICONICS OEM, to make this statewide water project a great success!  ECWW Company participates in the ICONICS End-User Support and Maintenance program to keep their software updated.