Success Story

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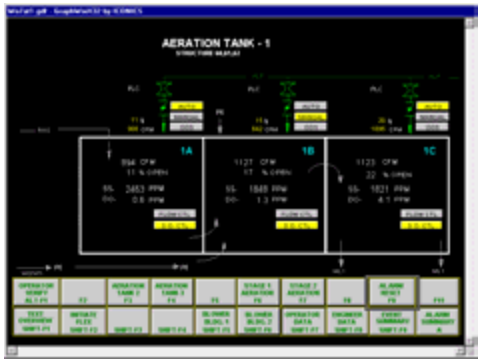
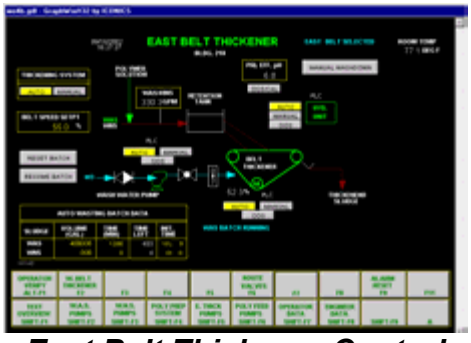
Mid-West Sanitary Operations



Aeration Tank Monitor Screen GraphWorX32 overview screen



East Belt Thickener Control GraphWorX32 overview screen

Industry: Water and Wastewater Processing

Customer: Mid-West Sanitary Operations North Central State, USA

At a Sanitary District in the Midwest, there is a municipal body organized to process wastewater. The Sanitary District owns and operates more than 100 miles of sewer lines and several pumping stations which collect and convey wastewater from local sewer systems to sewer treatment plants in North Central, USA.

ICONICS Software Deployed

The Sanitary District started using ICONICS GENESIS™ Software (DOS version) in 1991 after having used Intellution FIX at other locations. In 1997 they upgraded to ICONICS GENESIS for Windows™, after considering other Software packages from Intellution, Wonderware and Citect. The primary reason for choosing ICONICS was because of the advanced networking capabilities that ICONICS offers.

Key Features

The Sanitary District's mission is to protect the environment and people of the communities that they serve, through construction, operation and maintenance of quality wastewater treatment facilities. Municipal sewage treatment converts wastewater into a clean state before depositing the output results into lakes and rivers. Every aspect of the wastewater system at each of their locations is controlled and supervised using the ICONICS SCADA capabilities. The system monitors the buildings and equipment and logs historical trending and alarming data up to 300 points throughout the system.

Tip From the Customer

"*Through the years working with ICONICS, their products have been reliable and serviceable making ICONICS our Sanitary Operations Standard"* states the Director of Technical Services.

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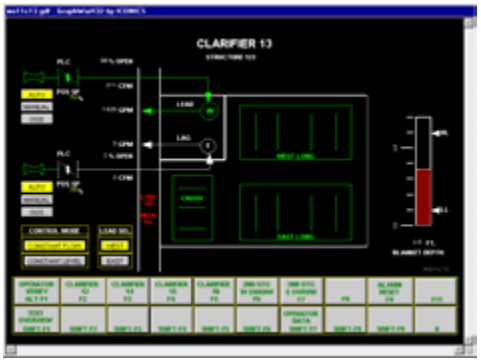
Blower Building 2 GraphWorX32 overview screen

Project Summary

ICONICS GENESIS32™ software has been deployed to monitor and control the treatment of wastewater at multiple locations in different cities within a North Central State. Sanitary District personnel configured and installed the current system, which took about 1 year, with annual upgrades as an ongoing process. ICONICS products are used to communicate with over 90 Allen-Bradley series 5 PLC's. The system has 65 total nodes with approximately 45 GraphWorX32™ nodes, 7 GENESIS™ DOS nodes, 13 GENESIS32™ nodes, 3 alarm servers and 9 GENESIS32™ Browser nodes. Each node has its own OPC server for PLC input/output device data. The overall system has more than 15,000 tags. The Sanitary district is continuing to upgrade and replace older versions of software annually.

Reporting & System Benefits

Reports from the GENESIS32™ system are generated in ASCII format and are imported into an Oracle database. Utilizing some of the GENESIS32™ system features such as "multiple file search and replace", "tool tips" and "state fields" reduced engineering time considerably. The ICONICS GENESIS32™ system, which is part of our control system, is definitely faster and more accurate than previously installed systems, is yielding an estimated overall ***savings of over a half million dollars per year*** in labor costs.



Clarifer 13 Monitor GraphWorX32 overview screen

Conclusion

ICONICS has worked closely and successfully with this customer to make this wastewater project successful in every aspect. They participate in the ICONICS SupportWorX maintenance program to keep their software updated and for access to ICONICS technical support personnel as needed.

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