



Lake Meredith, a Source of Water for Lubbock



Customer Success Story

# City of Lubbock Water Utilities Department Lubbock, Texas



A View of Lubbock's Elevated Tanks

*"The system was developed using ICONICS' OPC based GENESIS32 packaged with WebHMI and ReportWorX software. This provided the flexibility and power we needed for a rapidly growing, multi-user SCADA system with diverse communication, control, alarming, trending and reporting requirements."*

**David G. Converse**  
Business Unit Manager  
Wunderlich-Malec

## About Lubbock Water Utilities

The city of Lubbock sits in the Texas panhandle on flatlands marked by aridity. In the dusty, drought-prone "hub of the plains," responsible water use is imperative. To meet demands of its growing population, Lubbock must get its water from multiple sources. Lake Meredith and groundwater from aquifers serve as primary sources, while well-fields, operated by the Canadian River Water Authority, supplement supply in times of peak demand. Lubbock Water Utilities Department manages all facets of the city's water needs, including water collection, water and wastewater treatment.

With a new water and wastewater software solution from ICONICS, installed by Wunderlich-Malec, Lubbock Water Utilities is able to provide the best water and reclamation service possible with the resources available.

## ICONICS Software Deployed

GENESIS32™ provides a Web-enabled HMI/SCADA solution to Lubbock's water and wastewater facilities. TrendWorX™32, ReportWorX™32 and AlarmWorX™32 components are used for data storage, trending and alarming functions.

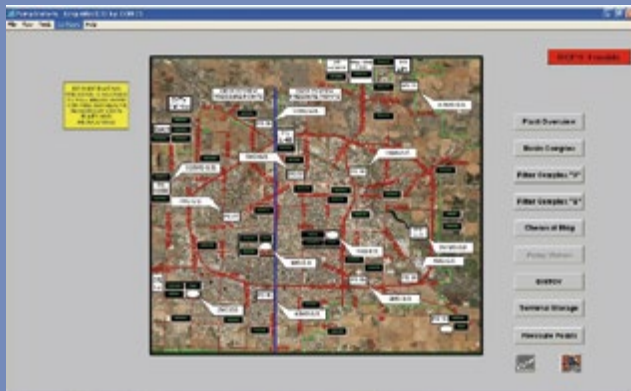
## Project Summary

ICONICS' GENESIS32 system provides for the monitoring and control of all aspects of Lubbock's water treatment plant, wastewater treatment plant and well-field.

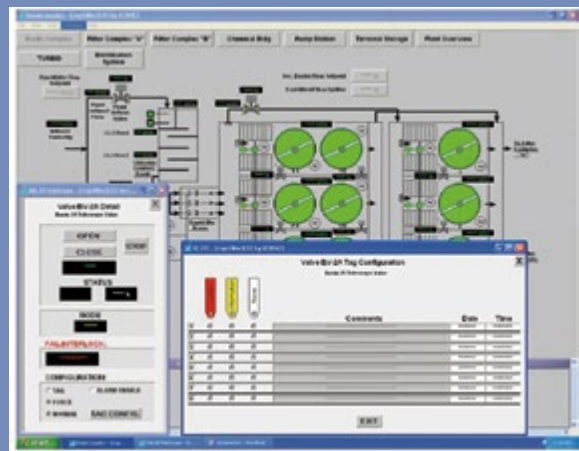
Each of the locations has its own control room with several operator stations running on WebHMI. Through custom console panels designed by Wunderlich-Malec, operators use ICONICS to monitor values and controls. At the water and wastewater treatment plants, chlorine, turbidity, suspended solids, oxidation-reduction potential (ORP) and other critical process variables are monitored. Plant data is acquired via OPC interfaces with plant programmable logic controllers (PLCs). Data from the water distribution system is acquired over a radio telemetry system.

**Conclusion**

ICONICS, in partnership with Wunderlich-Malec, provides the growing city of Lubbock with an efficient water management solution. Lubbock is currently implementing a state-of-the-art treatment process at their water reclamation facility. The ICONICS-based SCADA system is integral for efficient operation of the plant.



*Lubbock's Pump Stations*



*Basin Complex View*

Besides graphical interfacing, ICONICS provides Lubbock Water Utilities with trending, reporting and alarming. Alarming allows plant operators to respond to and identify critical problems as they arise, saving time and money. Trending and reporting offers efficient data analysis.

**Solutions Highlighted**



**TrendWorX**

Data Logging, Charting and Reporting Software

**ReportWorX**

Enterprise Reporting, Charting and Analysis Software

**AlarmWorX**

Multimedia OPC Alarm Management Software

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