



## PROJECT PROFILE

# Citect SCADA Standards for Wastewater Treatment *Encina Wastewater Authority*

### Client background

The Encina Wastewater Authority (EWA) is a public agency located in Carlsbad, California. EWA provides wastewater treatment services to more than 400,000 residents in northwestern San Diego County. EWA's facilities and services protect the local ocean environment, preserve public health, and provide recycled water resources for the region. Enterprise Automation has provided sole-sourced automation and integration services to EWA since 2017 as part of a five-year professional services agreement.

### Project background

Prior to embarking on a plant-wide remediation program scheduled to complete between five and ten years, EWA initiated a design and development project to first build a custom SCADA standards library that would meet the needs of their operators and management staff. The standards library would be designed around key instrumentation and controls standards (IO types and quantities, instrumentation types, equipment specifications, etc.) that would be included in every plant remediation project, ensuring consistency from the field device all the way through SCADA. The standards library would also reduce programming costs during the implementation of the remediation projects.

### EA solution

After an extensive evaluation, EWA chose Schneider Electric's Ecostruxure Hybrid DCS as its new SCADA platform. EHDCS ensured seamless integration, easier multi-developer configuration, and reduced programming cost by combining Citect SCADA and Unity Pro PLC software into a single integrated package. Engineers developed over 100 standard objects, from pumps and valves, to display pop-ups and PID controllers. By standardizing objects, projects would look, feel, and behave identically regardless of when they were developed, which saves time for future development and operations.

#### Project Manager



**Matt  
Avila**

#### Project Technical Lead



**Alex  
Coker**

#### Key Insights:

- 100+ standards for PLC code module and SCADA graphic sets

#### Key Technologies:

- Ecostruxure Hybrid DCS
- Citect SCADA
- Modicon M580