

CASE STUDY

► Windsor Ave Water Treatment Plant Improvements

Modernizing Water Treatment Infrastructure to Improve Reliability and Water Quality

Kiely Family of Companies partnered with a regional water utility provider to upgrade the Windsor Avenue Water Treatment Plant, improving treatment performance, operational reliability, and system control.

The project included selective demolition of existing plant components and installation of new treatment systems, pumping equipment, and plant controls to modernize the facility. Working within an active treatment plant environment required careful coordination to ensure plant operations continued uninterrupted throughout construction.

KIELY successfully delivered the upgrades while maintaining operational continuity and meeting the project schedule and budget requirements.

Challenges

- Construction within an active water treatment facility requiring continuous plant operations
- Integration of new mechanical, electrical, and control systems with existing plant infrastructure
- Installation of new treatment and pumping equipment within limited plant space
- Careful sequencing of demolition and construction activities to maintain plant functionality



Solution

KIELY implemented a coordinated construction approach to modernize the treatment process while maintaining plant operations.

- ▶ Installed a GreensandPlus pressure filtration system to improve iron removal and finished water quality
- ▶ Constructed a backwash water storage and decant system to support filtration operations
- ▶ Installed new high service pumps to enhance pumping capacity and system reliability
- ▶ Upgraded the chemical feed system to improve treatment control
- ▶ Installed a new instrumentation and control system to modernize plant monitoring and automation
- ▶ Completed electrical system improvements to support new treatment equipment

Final Project Details

The successful execution of the Windsor Avenue Water Treatment Plant improvements enhanced the facility's operational performance and treatment reliability.

- ▶ Improved iron removal and water quality through modern filtration technology
- ▶ Modernized plant operations with upgraded controls and instrumentation
- ▶ Increased pumping capacity and system reliability
- ▶ Project delivered safely, on schedule, and within budget

With technical expertise and an innovative organizational structure, the Kiely Family of Companies provides customers with a unified business approach and a single point of contact for unparalleled accountability and project success.

Our services enable design and construction teams to strategize as one, delivering a wealth of customer benefits and providing a tailored solution optimized for cost, quality, and efficiency.

Trust Kiely Family of Companies with your next project.

For more details on this project or how we can respond to your project's unique requirements, contact us.

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