

ELAN

Technologies

Inc.



Naperville I&I Project

Completed 10/98

CASE STUDY



- Weekly Downloads
- Lower Cost
- Less Maintenance
- No Contracted Data service
- Improved performance

Project Background

Naperville, IL has grown from 20,000 to over 100,000 people in less than 30 years, putting a tremendous burden on the wastewater collection system. Inflow and Infiltration (I&I) was a constant concern with all the new connections made annually. In the late 1980's Naperville embarked on a unique sewer program to monitor inflow and infiltration (I&I) utilizing long-term flow and rainfall monitoring. As part of the study, over 20 permanent ADS area velocity (AV) meters each with dial up phone modems for remote data retrieval. These meters were placed throughout Naperville for monitoring inflow and infiltration (I&I) as well as billing sites for feeder communities and some pump stations. This equipment was serviced, and the data retrieved, on a contracted basis with ADS.



In late 1997, Naperville hired RHMG Engineers to perform a 3-year I&I study and expand the flow-monitoring network. RHMG partnered with ADS in their proposal. At the same time, Warrenville IL had just completed an extensive field test of ADS versus American Sigma AV meters and selected Sigma. Warrenville is located adjacent to Naperville and discharges flow to Naperville for treatment. The flow meters used are all for billing, so accuracy and reliability were paramount. Warrenville's decision caught the interest of Naperville personnel; in fact many were on hand during the side-by-side evaluation in Warrenville. When RHMG was selected, Naperville directed them to first evaluate both flow meters (ADS and Sigma) for the expanded monitoring program.

During evaluation, Sigma's strength's in hardware and software became evident. Configurability, ease of use, field ruggedness, accuracy, installation simplicity and other factors were considered. Sigma's software was easy to use and powerful and focused on good raw data without massaging. Sigma's offering allowed Naperville personnel to maintain and operate the system in house rather than relying on others. The final recommendation was to utilize Sigma AV meters for the new study and replace all the existing ADS equipment with Sigma AV meters, too!

Project Benefits

Since the installation of the Sigma AV meters, Naperville now runs the entire flow monitoring system with their own personnel. Data is downloaded on a weekly basis, more often if desired, from each meter via the originally installed phone lines. In addition, pre-configured report and graph templates enable Naperville personnel to do all necessary reporting and graphing in house, completely eliminating the contracted services and thousands of dollars from their operating budget.

Contact ELAN Technologies

ELAN Technologies offers innovative, custom open channel flow monitoring solutions to meet any flow application and regulatory requirement. When you have a tough application, call ELAN. For information on fixed sewer flow monitoring systems, contact ELAN Technologies on the web at www.ELANTechnologies.net

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