



Municipal Building and downtown Prescott

Sewer Optimization Study Town of Prescott

In 1996, the Town of Prescott retained the Ainley Group to undertake a comprehensive sewer and sewage treatment plant optimization study. The objective of the study was to quantify and identify means of reducing extraneous flows to the sewage treatment plant. Specific tasks included:

- Compilation of overall plans for the sanitary and storm sewers
- Field investigation including CCTV inspection, smoke testing, dye testing and manhole inspections preceded by a comprehensive flow-monitoring programme, which identified key problem areas.
- Compilation of sewer sizes, capacity, connectivity and grades
- Establishing a prioritized multi-year work plan to cost effectively reduce inflow/infiltration (I/I).

The study successfully identified areas of high inflow/infiltration, and areas of inadequate capacity to convey a storm with recurrence of 1:5 years. The areas of high inflow/infiltration (I/I) were CCTV and specific areas of I/I were discovered. These lengths of pipe, including some laterals were sealed with lining and the manholes with active infiltration were purged. The majority of the south of Prescott was still a combined system. In 2000, the Ainley Group commenced the design and construction to separate the system, which was completed in late 2002. In total over 7000m of sanitary sewer pipe, and 3300m of storm sewer pipe were installed.

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Project Facts

Client: Town of Prescott

Scope of Work:

- Identify means of reducing extraneous flows through:
 - Total station survey
 - Field investigation – CCTV inspection, smoke testing, dye testing and manhole inspections
 - Flow monitoring programme
 - Compilation of physical attributes
 - Establishing a prioritized multi-year work plan.

Project Cost: \$190,000 (1996)