

**STRATEGY:**

# System Management

**OBJECTIVE**

The SMP will develop the tools necessary for an asset management program. This will include coordinating with cities that already have a system and investing in asset inventory and condition assessment for engineered stormwater infrastructure, as well as the natural stormwater conveyance system. It will assist the Watershed Committees in developing capital improvement and system replacement approaches.

**REASON**

Many municipalities in Johnson County are experiencing deterioration of their stormwater systems. Aging infrastructure can present real dangers to the public and result in significant costs. An asset management approach would allow stormwater infrastructure across Johnson County to be evaluated on a comprehensive basis, with key areas for investment identified based on the condition of the infrastructure or consequence of failure metrics.

**TACTICS**

- Management strategy
- Define system to be managed
- Complete county-wide asset inventory
- Complete county-wide condition assessment
- Define system replacement project criteria

**IMPACTS**

Each strategy is designed to have impacts on multiple gap areas. In addition to closing gaps around the inventory and maintenance of existing infrastructure, the System Management strategy will help SMP close gaps associated with:

**Water Quality:** Impaired infrastructure can lead to an array of water quality issues, including increased erosion.

**Flood Damage Reduction:** Impaired infrastructure can produce increased flooding, especially in the case of failed detention embankments or spillways, or in the case of broken pipes.

**Alternative Funding:** Fully understanding the extents and condition of the stormwater system will allow SMP to bundle projects to most effectively identify and leverage outside funds.

In response to new stormwater-related challenges and opportunities, the Johnson County Public Works & Infrastructure Urban Services Division initiated an update of the initial 2002 Strategic Business Plan of the Stormwater Management Program (SMP). The “State of Practice” in stormwater management, including new approaches and advances, are reflected in the strategies developed for the new 2016 plan. In addition to water quantity and flood damage reduction concerns, the strategies address water quality and regulatory issues as well as a growing trend toward integrated water resource management planning.

