

## Little Mill Creek Watershed Analysis

City of Lenexa, Kansas

The City of Lenexa commissioned a fluvial geomorphic analysis of Little Mill Creek to enable a watershed scale management plan. Little Mill is an urbanized watershed with a history of widespread channel manipulation. In addition to flood protection, the management strategy for this stream includes improvement of systemic stability, water quality and wildlife habitat. The watershed in the City's jurisdiction encompasses 7 square miles and over 60,000 feet of surface stream. Using computer-aided methods for field data collection, Intuition & Logic was able to integrate field data with the City's GIS system for rapid, efficient data analysis.

Based on our geomorphic analysis, management recommendations were developed that focus on improving the stability of the stream without excessive interventions. We recommended that the City allow those reaches that are approaching equilibrium to do so without further intervention, so long as public safety and infrastructure are not threatened, along with the practice of adaptive management for low risk reaches. This approach involves periodically monitoring reaches that have a history of incision or excessive deposition.

