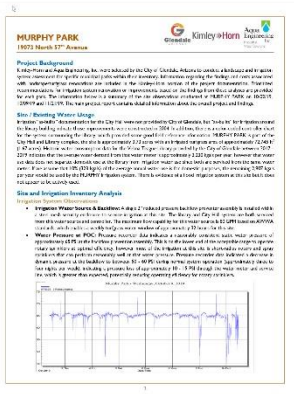
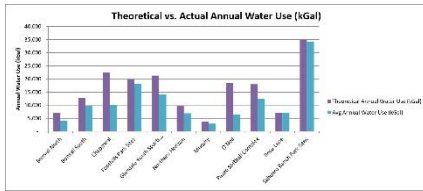


Glendale, Arizona Municipal Parks Assessment - Irrigation Elements



The City of Glendale selected the Kimley-Horn/Aqua Engineering consultant team to conduct a landscape and irrigation system assessment at eleven (11) municipal parks and sports complex sites within the City's parks inventory.

Data was collected for each site from historical utility records, site visit observations during system operation, digital pressure recorder data at the irrigation water sources, and GPS irrigation system equipment mapping procedures. A comprehensive irrigation equipment inventory was recorded to determine if the existing irrigation systems were using current and compatible equipment technologies to enable effective irrigation water application and maintenance strategies. Theoretical irrigation water demand calculations and hydraulic calculation models were developed to evaluate theoretical vs actual water use to identify potential opportunities for water conservation and maintenance cost savings.

In addition to water use reduction strategies, Aqua Engineering made recommendations to assist the City with development of a clear, consistent, and comprehensive set of irrigation design, equipment and operational standards. We identified important irrigation system deficiencies at multiple parks and created more accurate "as-built" Record Drawings using the GPS-mapping data.

Individual site reports were developed to summarize the data collected and prioritized recommendation, and a final comprehensive report, including Executive Summary, was submitted at the conclusion of the project. The assessment provided essential information to assist City representatives in securing long-term project funding for renovations, repairs and capital improvements.

