

# UPPER KISSIMMEE BASIN REGIONAL WATER SUPPLY FEASIBILITY STUDY: PHASE 1

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**Client Name:** *South Florida Water Management District*

**Type of Service:** *Environmental Documentation & Data Analysis*

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Traditional water sources of the Upper Kissimmee Basin (UKB) are the upper and lower portions of the Floridan Aquifer System. While these systems have adequately met past water supply demands, population in the UKB is expected to increase approximately 150%.

Following the South Florida Water Management District's (District) strategic goal of ensuring a reliable supply of water to protect natural systems as well as meeting all existing and projected water supply demands, opportunities to develop alternative water sources to meet future demands are under consideration. The District is working with state and local agencies to evaluate management options for the Kissimmee River and Upper Chain of Lakes.

Milian, Swain & Associates, Inc. (MSA) provided professional environmental services by collecting, reviewing, and reporting available data to characterize existing regional surface water quality for the Upper Kissimmee Basin

This effort was conducted as part of the first phase of a feasibility study, which reviewed the available options for water resource development in the region. Existing water quality data for the area of focus was culled from the large pool of potential data sources following a comprehensive screening process. Average annual and seasonal variations of surface-water quality were characterized and summarily presented. Additionally, data gaps needed to assess water treatment design options and considerations for blending treatment residuals with groundwater were identified. A subsequent monitoring plan to satisfy the data gaps identified during the surface water characterization was prepared and presented.

