

CASE STUDY – HIGHLIGHTS FROM: “ACHIEVING SUSTAINABLE SPORTING FIELD MANAGEMENT IN WESTERN SYDNEY” A STUDY OF SUSTAINABLE DEMAND REPORT (PHASE I)

Background

- This report is part of a \$1,090,100.00, 3 year grant from the New South Wales Environmental Trust. This grant was to undertake a project to identify ways in which sporting fields can be managed in a more sustainable manner. The report focused on three main issues, improving existing soil characteristics to promote turf growth, more efficient water use and the feasibility of alternative water sources for irrigation.
- The study involves an Alliance of Councils (Pernith, Camden and Auburn) in Australia.

Water Savings Findings

- KISSS is a more cost effective method of irrigating sports fields than sprinklers. KISSS demonstrates more than a 50% demand reduction on sports fields compared to overhead irrigation.
 - “This study has revealed demand reduction in excess of 50% is achievable by the adoption of this technology where it is appropriate.”
 - Savings from 57% to 77% were achieved with proper scheduling and maintenance practices.
 - “Therefore, applying water directly in the root zone using KISSS™ eliminates many of the potential losses, which occur with sprinkler irrigation.”
- KISSS is a key element in the exploitation of storm water for irrigation. KISSS uses less than half of the water used by overhead irrigation, greatly diminishing water storage requirements, and with proper maintenance and practices can effectively use a wide range of water of varying quality and condition.
- Sprinklers spray water in a circular pattern on rectilinear fields, which is inherently inefficient.
 - To ensure sprinklers adequately irrigate the entire sporting field, overhead irrigation must overlap creating areas that are oversaturated and areas that are adequately irrigated.
 - Large off target losses occur because sprinklers must throw water beyond the playing area to achieve uniform wetting. This accounts for overwatering from 14% -40% in irrigated area relative to KISSS even on a still day. This saving comes on top of those due to reduced wind drift, evaporation and drainage loss.

Other Findings

- This study confirms KISSS scheduling advantages since “irrigation can normally occur at any time of the day, even when the field is in use.”
- Soil type and structure dictated KISSS installation depths of 6" - 10" thereby creating extensive soil moisture reservoirs and root development.
- This report confirms the design, implementation and operational management of irrigation systems for large turf applications is a serious, challenging task, requiring detailed understanding everything from soil moisture content to weather data and irrigation scheduling. Managing these facilities is analogous to managing a championship golf course and requires competent professionals, not low bidders.

Call to Action

KISSS is the water saving solution of the future, eliminating the waste inherent with overhead sprinklers. Become more educated about the advantages of KISSS, contact us today!

Because every drop counts.

Contact KISSS America today at Savewater@KISSSUSA.com or 1-800-376-7161