

**Project Summary – Water**

PROJECT NAME:	Lavarack Army Barracks
LOCATION:	Townsville, Australia
DEVELOPER/CLIENT:	Department of Defence Facilities Branch, Base Administrative Support Centre.
CONTACTS:	Hudson Sweeting, NSW Department of Public Works and Services
DATE COMPLETED:	June 1994
PROJECT SIZE:	21km of water main 255 buildings
PROJECT DESCRIPTION:	Determine the extent of leakage and wastage at the Lavarack Barracks. This survey included over 20.5km of mains, 255 buildings and 370 connections to buildings. The system has 120 stop valves and 3 separate connects to the Council water main. In conjunction with monitoring strategic stop valves were isolated to allow locations of leakage to be identified.
ESTIMATED SAVINGS FROM ENVIRONMENTAL DESIGN:	Estimated at \$153,000 /pa. The most significant cost items were the upgrade of the irrigation system, sub-zone metering and installing a monitoring system.
TOTAL RETURN ON EQUITY:	Implementation cost of \$230,000 for a \$153,000 saving each year.
NOTABLE ENVIRONMENTAL DESIGN:	System investigation for leakage and survey to check for continuous use fixtures – urinals and irrigation. Recommendations included: <ul style="list-style-type: none"> <li>■ upgrade of irrigation systems</li> <li>■ zoning of system</li> <li>■ subzone metering</li> <li>■ high usage area metering</li> <li>■ installing a monitoring system</li> <li>■ replacing automatic urinals cisterns</li> <li>■ maintenance program for control valves.</li> </ul>