

# Luggage Point WWTP Mangrove Restoration

**Client**

Brisbane City Council

**Date**

1998

**Services & Expertise Provided**

Mangrove health assessment;

Water quality assessment;

Identification of impacting processes;

Rehabilitation Plan and implementation; and

Rehabilitation monitoring.



In 1998, Brisbane City Council engaged BMT WBM to undertake an investigation of the health and viability of mangroves at Luggage Point, at the mouth of the Brisbane River. The study identified serious deterioration in the health of large areas of mangroves and identified ponding of water around the roots of the mangroves as the most likely cause of the deterioration.

A second study examined possible rehabilitation alternatives and found that the most suitable method of achieving restoration of the mangrove communities was to establish channels to restore tidal flushing to the degraded area.

This formed the basis of a Rehabilitation Plan.

Following an extensive approvals process, the Rehabilitation Plan was implemented with the construction of two channels.

A comprehensive monitoring program was carried out during and immediately following the construction to ensure no negative impacts resulted from the construction of the channels.

Physical and water quality monitoring shows that the constructed channels are operating well and significant environmental improvement have occurred. Mangrove and benthic in fauna monitoring shows promising early signs and is ongoing.

