

Gladstone Tradewaste Outfall Assessments

Tradewaste from a series of industries is currently discharged via a dedicated effluent outfall into Port Curtis, Central Queensland. In 1992, BMT WBM developed, calibrated and verified a two dimensional (horizontal) hydraulic/water quality model to determine waste plume advection and dispersion characteristics of the effluent. This data was used in the selection of biological monitoring, and control sites to evaluate the impact of waste discharges to the biota of Port Curtis.

The studies comprised integrated assessments of waste dispersion hydrodynamics, seagrass and benthic communities. The dispersion processes of discharges from the outfall were determined by computer modelling to assist in locating the biological monitoring sites relative to the pattern of effluent movement.

Monitoring of seagrass and benthic sites was conducted over a 1-3 year period and the results were presented in an environmental management/pollution control framework for Departmental review.

Client

Department of Environment and Heritage

Date

1991 - 1994

Services & Expertise Provided

2D hydraulic / water quality monitoring; and

Ecological monitoring.

