

Water Pipelines

WASTE WATER RISING MAIN

Customer :	MacKay City Council
Location :	MacKay, Queensland, Australia
Install Date :	2008

Introduction

This project was designed to recycle most of Mackay's wastewater to better protect the Great Barrier Reef from 250 tonnes of nutrients entering the system every year, and protect and rehabilitate overcommitted ground water resources which are at risk of seawater intrusion.

The Bakers Creek waste water treatment plant was built to treat and recycle waste water to allow use for irrigation. A 6.1km DN650 pipeline to transport recycled water from the plant to a reservoir was installed using GRP (fibreglass) pipe. The pipeline was supplied in 11.5m lengths with dual rubber ring joints to allow swift installation. In addition the rubber ring joints could be fully pressure tested for seal integrity as they were laid.



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The Challenge

To supply 6.1km of DN650 pipe to site at MacKay. Pipe was delivered in several shipments to allow a start on the straight lengths of the pipe run with several areas started at the same time. This was done to avoid laying pipe during the approaching wet season, up to 250m a day was installed.

Site

To allow maximum flexibility with the installation Maskell Productions supplied staff to site to laminate joint (butt and strap) minor direction changes in the pipe line. Where greater changes in direction were required swept bends were welded into the line with axially restrained pipe one either end of the bends extending out until soil friction allowed rubber ring joints.



Quality
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