

Ashburton Lyndhurst Irrigation Scheme - Stage 2

Pipeline helping farmers in New Zealand



Project Need

The Ashburton Lyndhurst Irrigation Ltd is a farmer owned co-operative which receives its allocation of water from the Rangitata Diversion Race Management Ltd and distributes its water through a network of races and pressurised pipe systems to its shareholder members who collectively farm approximately 30,000 hectares.

In November 2012 a decision was made to upgrade the Irrigation Scheme which included the creation of ponds, piping a substantial part of the Scheme to deliver water under pressure, and the installation of new telemetry so that the delivery of water can be monitored electronically. The potential of significant water savings, delivery of water under pressure with increased reliability, along with the necessity to keep up with changing environmental perceptions of ensuring that water resources are used far more efficiently with water losses kept to a minimum were the driving force behind this major upgrade.

Solution

Steel Mains Pty Ltd (formerly Pentair Water Solutions) was contracted to manufacture and deliver MSCL pressure pipes for parts of the Scheme Upgrade Project. The total pipes supplied by Steel Mains Pty Ltd for the scheme upgrade were 472 lengths of 1283 mm diameter and 670 lengths of 1145 diameter pipes. The pipes utilised Steel Mains' SINTAJOINT® elastomeric ring joint for ease of installation and were coated with Steel Mains' SINTAKOTE® coating system and lined with cement mortar. The pipes were manufactured from 8mm and 7.5mm, 300 MPa grade steel, in 11.83 metre overall lengths to enable the pipes to be containerised for shipping from Australia to New Zealand. A total of 460 shipping containers were used to deliver the pipes the Scheme Upgrade Project.

Achievements

Steel Mains Pty Ltd successfully completed the delivery of the 13.3km of steel pipes from October 2013 to March 2015 in line with the Scheme Upgrade Project's construction program. The production of the pipes were staggered over this period, due to the limited storage space at the Scheme's construction site. The containerisation system used ensured that the pipes arrived without damage and enabled the pipes to be easily removed from the container.

www.steelmain.com

Project: Ashburton Lyndhurst Irrigation Scheme Stage 2

Principal: Water Infrastructure Group

Location: Ashburton, New Zealand

Completion: 2015

Supplied: 5.5 km of 1283 diameter and 7.8 Km of 1145 SINTAKOTE MSCL pipe.