

project brief

TYPE OF FACILITY:
Nickel Smelter



Kalgoorlie Nickel Smelter - Fire Water Distribution Ring Main

■ Kalgoorlie, Western Australia

As part of the Kalgoorlie Nickel Smelter upgrade a new fire water ring main was installed around the site with a large majority of the pipes being buried service applications.

The Victaulic Aquamine system was chosen for the project due to its ease of installation and the ability to meet the high pressure requirements in certain areas. The contractors were easily able to install pipe work in trenches without the need for special machinery or lengthy delays. Some of the pipes had to be installed under roadways and culverts and by using the Aquamine pulling heads, it allowed contractors to again install the pipe work with a minimum of efforts and was able to reduce the amount of trenching required. The testing and inspection of the system also provided large-scale savings in both man-hour and monetary value, with a 100% pass rate on all joints the Aquamine system proved fast, reliable and safe.

SPECIFICATIONS:

SERVICES:	PIPE MATERIALS:	PIPE SIZE RANGE:
Fire Water Ring Main	Aquamine PVC	100 – 200 mm SDR 12.4



MARKET:
Mining

VICTAULIC SOLUTIONS:
High pressure requirements
Ease of installation without any special machinery
Man hours and cost saving
Buried service applications

OWNER:
BHP Billiton Nickel West
Kalgoorlie Nickel Smelter

CONTRACTOR:
Monadelphous

ENGINEER/CONSULTANT:
Lycopodium

COMPLETED DATE:
2009