



ShandDong Buoy&Pipe Industry Co.Ltd.

Australia Distributor PBA CASE STUDY – RESOURCE EQUIPMENT LIMITED/SIBELCO

Email: lilywang@buoyandpipe.com WhatsApp:86-15998714521 Skype:lonely2755

UHMWPE(ultra high molecular weight pe)pipe project cases



Client Details

Client:	Resource Equipment Limited / Sibelco
Location:	KG1, Kunawarra Magnesia Mine
Pipe Size:	Sold 297ID WT15
Qty:	250m (trial length) – Total 2.5km
Connection Type:	Stub flange – Table E
Date of Purchase:	March 2014
Date of Install:	September 2014

Process Details

Process Type/ Service:	Magnesia Tailings
Solid Size:	Fine
Density/ Composition:	Magnesia ore tailings, 1.6SG, 30% w/w
Flow/Velocity rate:	2.5 m/s
Total Dynamic Head:	6 bar at pump, booster pump halfway down the line
Wall thickness:	Testing 1mm wear loss per month (tested fortnightly). 1.5 - 2mm wear loss at pipe lengths joining with Steel. Minimum of 28 points of testing per visit.



Summary

The wear loss exhibited is half that of hardened Steel.

Site was particularly pleased with how much lighter and easier the pipes were to work with, including the lack of need for gaskets and welding (all the steel is collar welded to allow for rolling, due to high wear).

