

Pilot Plant Capabilities

two campaigns with major producers

INTRODUCTION

A key milestone has been reached with the successful piloting of the GlyCat™ process on a gold/copper concentrate for two major Australian gold mines.

Both mines experience elevated cyanide consumption attributed to nuisance copper. GlyCat™ offers a dramatic reduction in reagent cost with only minor modifications to conventional leach plants. As well as direct saving in leach, the cost of cyanide detoxification can be reduced or eliminated. Copper may also be recovered for additional revenue.

OUTCOMES

- MPS is continuing to support these businesses through the engineering phase and ultimately with site implementation.
- 1200+ hours of successful piloting testwork completed
- A follow-up piloting campaign will be conducted at MPS to validate circuit modelling

1200+ Hours of Successful Piloting

PILOT CAMPAIGNS

Two continuous, integrated pilot campaigns generated over 1,200 hours of operating data to confirm the process benefits and methodically address the effect on downstream operations. The programs have proved the extraction of gold with at least 75% reduction in cyanide consumption. Detox requirements were eliminated with minimal cyanide in the final residues.

INDICATIVE COST SAVINGS:

	Cyanidation kg/t	GlyCat™ kg/t	Unit price A\$/t concentrate	Cost saving A\$/t concentrate
Cyanide	50	5.7	3,863	194
Glycine	-	2.6	2,800	-7
Sodium sulphide	-	2.5	597	-2
Copper (credit, as CuS)	-	2.0	8,000	16.00
Total Savings				201 A\$/t

These results strongly support the economic benefits of the process and indicate the success of an industrial-scale implementation.

