



## Gold Fields Australia at a Glance

**GOLD PRODUCTION CAPABILITY:**

700,000+ ounces  
per annum

**MINERAL RESOURCES:**

9.8 million ounces

**MINERAL RESERVES:**

4.1 million ounces

**OPERATING MINES:**

St Ives and Agnew

**STAFF AND CONTRACTORS:**

1600+

**MINING METHOD:**

Underground  
and open pit

# GOLD FIELDS AUSTRALIA

Gold Fields is one of the world's largest unhedged producers of gold with attributable production of over 4 million ounces per annum from nine operating mines in South Africa, Ghana, Peru and Australia. The Group has total attributable Mineral Reserves of 74 million ounces and Mineral Resources of 194 million ounces.

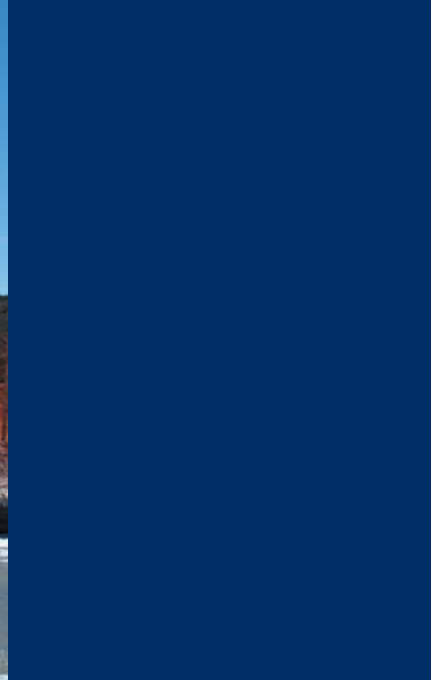
Gold Fields' vision is to be the global leader in sustainable gold mining.

Gold Fields operates two mines in Australia - the St Ives and Agnew Gold Mines in Western Australia.

Acquired in December 2001, St Ives and Agnew represent a solid base for Gold Fields' growth in Australia and are important contributors to the Group's stated objective of building a global precious metals business. Both mines have highly prospective opportunities for reserve growth and life extension.



**GOLD FIELDS**



## Sustainability

The success of our operations are inextricably linked to the skills and expertise of the people we employ, the companies with which we do business, the safety of our operations and the nature of the relationships that we build with neighbouring communities and governments.

## Health and Safety

Safety is regarded as the foundation of sustainability at Gold Fields and is reflected by our philosophy *if we cannot mine safely, we will not mine*.

The company has fostered the belief amongst Gold Fields employees that a Zero Incident workforce is indeed possible and our attitudes and behaviour towards safety are continually focused on achieving this.

## Community

Gold Fields Australia invests in community development projects around the St Ives and Agnew mines through the Gold Fields Australia Foundation.

St Ives and Agnew mines have forged proactive relationships with key stakeholders in their local communities, including Native Title claimant groups, pastoralists, key business partners and non-government organisations.

Our Australian operations are highly focused on the rights of the Indigenous people.

## Environment

Gold Fields Australia is dedicated to responsible stewardship of natural resources and acting responsibly in all areas of environmental management. We are committed to ensuring that development and expansion of the business is conducted in such a way to minimise environmental and stakeholder impacts.

Gold Fields continues to promote environmental responsibility to all our employees and stakeholders through a variety of awareness programs, and comprehensive and innovative environmental field programs.

## People

Gold Fields Australia's policy is to employ local labour and contractors wherever possible. Over 1600 staff and contractors operate our Australian business across regional operations and our head office in Perth.

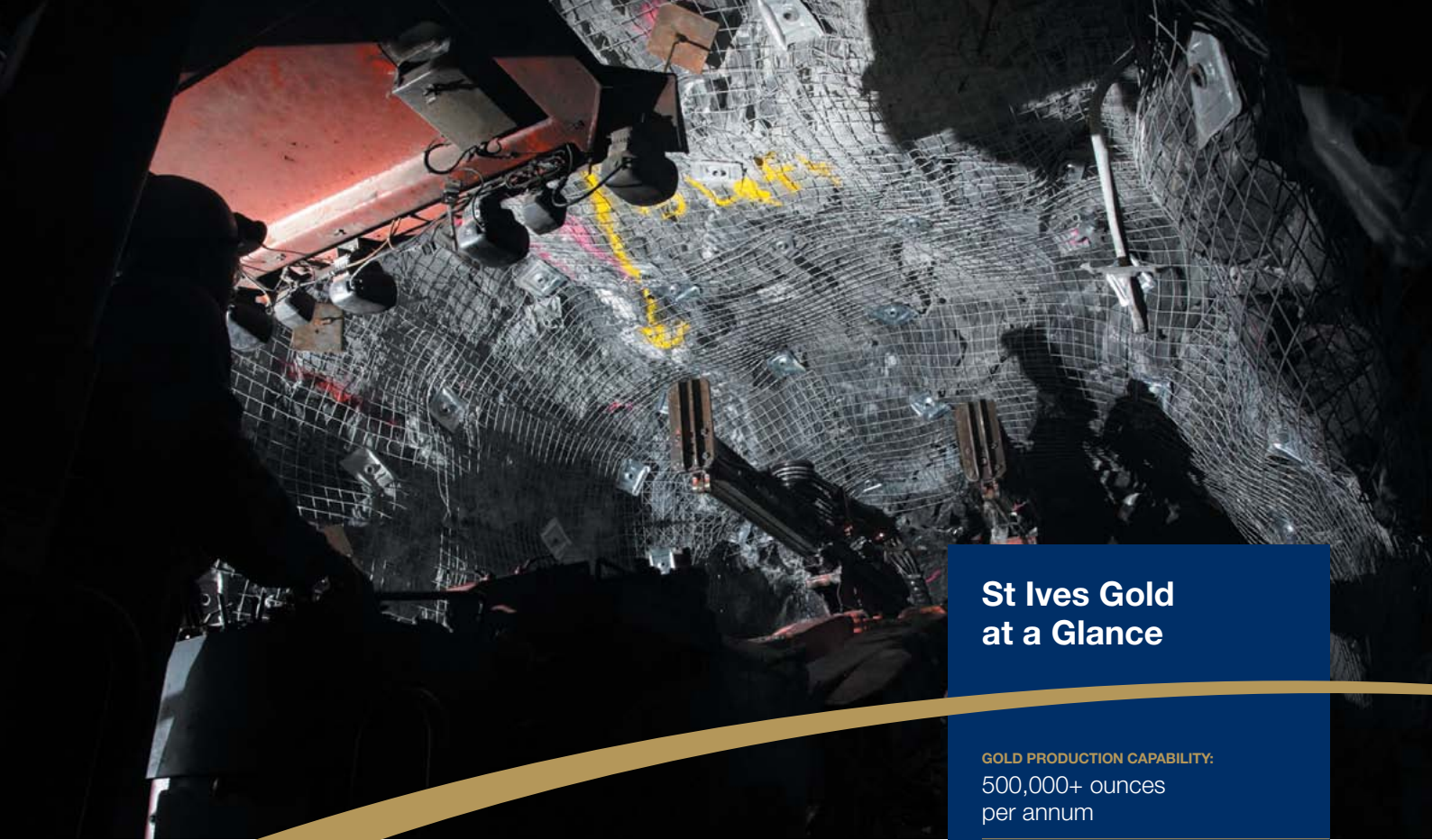
We believe that our responsibility towards our employees begins at the workplace and extends to the means necessary to enjoy a well-balanced, healthy lifestyle.



**GOLD FIELDS**

**Gold Fields Australia**  
Level 5, 50 Colin Street  
West Perth WA 6005  
Tel: (08) 9211 9203

[www.goldfields.co.za](http://www.goldfields.co.za)



## St Ives Gold at a Glance

**GOLD PRODUCTION CAPABILITY:**

500,000+ ounces per annum

**ORE PROCESSED:**

7+ million tonnes per annum

**MINERAL RESOURCES:**

5.8 million ounces

**MINERAL RESERVES:**

2.8 million ounces

**UNDERGROUND MINES:**

Argo, Athena, Hamlet and Cave Rocks

**OPEN PIT MINES:**

Agamemnon, Apollo, Leviathan and Formidable

**SITE OPERATIONS:**

Single stage closed circuit SAG mill and CIP technology, plus heap leaching

**STAFF AND CONTRACTORS:**

1200+

**EMPLOYMENT STATUS:**

Residential

# ST IVES GOLD MINE

St Ives Gold Mine is located near Lake Lefroy in the prolific gold-producing Eastern Goldfields region of Western Australia, around 80 kilometres south of Kalgoorlie and 630 kilometres east of Perth.

St Ives is one of two gold mines operated by Gold Fields in Australia. Acquired from WMC Resources in 2001, St Ives Gold is an important contributor to Gold Fields' stated objective of building a global precious metals business.

Gold Fields is one of the world's largest unhedged producers of gold with attributable production of over 4 million ounces per annum from nine operating mines in South Africa, Ghana, Peru and Australia. The Group has total attributable Mineral Reserves of 74 million ounces and Mineral Resources of 194 million ounces.

Gold Fields' vision is to be the global leader in sustainable gold mining.



**GOLD FIELDS**



## Mining Operations

St Ives produces gold from both underground and open pit mines. The Argo, Athena and Cave Rocks underground mines produce over 240,000 ounces of gold annually from 1.4 million tonnes of ore while the Leviathan, Agamemnon and Apollo open pit mines produce over 210,000 ounces of gold from 6.6 million tonnes of ore. The new Formidable pit commenced mining in April 2011.

Open pit mining is conducted using conventional truck and shovel methods. Removal of up to 40 metres of barren lake sediments is required before the gold ore is accessible.

The underground mines are all accessed by declines from the existing open pits and are mined by conventional long hole stoping. Paste fill into the mined stopes at Argo is used to manage geotechnical constraints at that mine.

Construction of St Ives' newest underground mine, Hamlet, has commenced, and the first major production of ore is due to occur in 2012. Hamlet is expected to produce an additional 100,000 ounces annually at full production.

## Processing

Ore is processed by a combination of conventional Semi Autogenous Grind (SAG) milling and Carbon-in-Pulp (CIP) technology, and heap leaching.

More than 4.8 million tonnes per annum are treated using a single stage closed circuit Semi Autogenous Grind (SAG) mill and Carbon-in-Pulp (CIP) technology, while a further 2.2 million tonnes per annum are treated by heap leaching.

Overall gold recovery is an excellent 95%.

## Sustainability

At Gold Fields Australia we act responsibly and care for the environment, each other, and all stakeholders - our employees, our communities and our shareholders.

## Health and Safety

Gold Fields' approach to safety is centred on the statement *if we cannot mine safely, we will not mine*.

It is imperative that our attitudes and behaviours towards safety are continually focused on the aim to achieve a Zero Incident workplace.

## Environment

At Gold Fields' St Ives Gold Mine, environmental management is considered a core business activity. We aim to ensure that development and expansion of the business is conducted in such a way to minimise environmental impacts.

Not only does this apply to our operations, but also to planning for mine closure over the longer term.

St Ives is continually promoting environmental responsibility to all our employees and stakeholders through a variety of awareness programs.

Our ongoing commitment to responsible mining is evident through our certification to ISO 14001:2004 and ICM Cyanide Management Code.

## Community

Gold Fields engages and consults with a wide range of stakeholders.

Gold Fields Australia invests in community development projects around the St Ives mine through the Gold Fields Australia Foundation.

The employment of local labour is important to us and therefore we make it a priority to employ local labour and contractors from neighbouring communities and from Perth wherever possible.

Our operations are also focused on the rights of Indigenous people.



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