



SUSTAINABLE GOLD MINING IN RAVENSWOOD

Ravenswood Gold is committed to working responsibly and sustainably to protect and preserve the people, environment, community and heritage associated with our operations. We acknowledge the Traditional Owners of the land on which we operate, the Birriah People. We pay our respects to Elders past, present and emerging, their culture and country. We extend our respects to all Aboriginal and Torres Strait Islander People in our community.



A WORD FROM BRETT

At Ravenswood Gold, we value our history, the community and the environment. I'm excited about what we have achieved so far and the opportunities that our project provides.

My team and I are working hard to be a great neighbour to the people of Ravenswood and a strong contributor to the regional Queensland economy by focusing on sustainability:

- **Community:** Supporting the town, preserving its history and growing its future.
- **Environment:** Focusing on the long-term health of local flora, fauna, water, land and air.
- **Economy:** Creating jobs, supporting regional businesses and local tourism.

People have been mining in Ravenswood since 1868 and it is important for us to preserve that history and continue that relationship into the future.

Our project has brought mining closer to the town, so we're working hard to minimise impacts, especially during the busy construction phase. We've also been improving and supporting local infrastructure and services, including the Ravenswood school, health services and roads.

When it comes to the environment, we are using new technology to reduce our footprint and decrease our water use. An extensive monitoring system is in place to protect the environment and we are working with local teams on fauna conservation as well as progressive rehabilitation.

In 2022, Ravenswood Mine will become the largest gold mining operation in Queensland, providing economic benefits to the State, while offering jobs and business opportunities for the region. Looking ahead, we are working with the people of Ravenswood towards a sustainable future for the town, including development of a local tourism industry that will endure beyond the life of the mine.

With a strong team and a positive culture, we are focused on demonstrating that the mine and the town of Ravenswood can continue to successfully coexist and prosper, as they have for over 150 years.



Brett Fletcher
CEO, Ravenswood Gold



Brett Fletcher is a qualified Mining Engineer with more than 30 years' experience in the metals and mining industry. He has significant experience within Australia's base metal mining and smelting sector and has held multiple executive and senior management roles.



RAVENSWOOD GOLD



INTRODUCING RAVENSWOOD GOLD

Ravenswood Gold is an Australian business that owns and operates the gold mining operation in the town of Ravenswood, 120 km south of Townsville in Queensland. Ravenswood Gold is jointly owned by EMR Capital and Golden Energy and Resources.

In 2020, Ravenswood Gold committed to a significant expansion of the existing mining operation that will see gold production increase to over 200,000 ounces a year and extend the life of the operation by at least 14 years. The expansion will include re-mining the former Buck Reef West and Sarsfield/Nolans open pits, increasing the size of the processing plant and constructing a new tailings storage facility.

Ravenswood Gold is a major employer in the region, with around 320 permanent staff already working at the site and still growing. More than 300 regional businesses have worked on or supplied to the expansion project so far, representing over 30% of total expenditure.



PROJECT

Gold production target:
180-210,000 ounces a year

Planned processing rate:
>7 million tonnes a year

Capital expenditure:
Over \$450 million



COMMUNITY

Local investment:
>\$250,000 in local support, events and sponsorship annually, plus project investment

Indigenous relations:
Collaborative relationship with the Birriah People, focused on jobs and training

History:
Over 150 years of mining in Ravenswood



ENVIRONMENT

Efficiency:
Maximising water recycling

Monitoring:
>100 water quality, air quality, noise and vibration monitoring sites

Waste minimisation:
Reprocessing and reusing waste rock



ECONOMICS

Employment:
400 employees by end 2021, 90% live in North Queensland, >20% women

Contractors:
Up to 470 contractors/day during construction and 200 permanent regional contractors

Regional investment:
>30% North Queensland, >60% Queensland

EACH YEAR,
RAVENSWOOD GOLD
DIRECTLY CONTRIBUTES
OVER \$250,000 TO
THE LOCAL COMMUNITY



COMMUNITY

Ravenswood Gold is proud to be a part of the long mining history of Ravenswood and is actively working with local people to preserve and enhance the town's mining history and foster a sustainable tourism industry for the town.

Mining history

Ravenswood Gold is preserving the area's mining history through two Heritage Agreements with the Queensland Government's Department of Environment and Science.

The most significant activities undertaken under the agreements involved the conservation of three chimneys located within close proximity to a planned mine pit and the dismantling and storage of another three chimneys.

Working with an expert heritage stonemason, Ravenswood Gold repaired, repointed and strengthened three chimneys in-situ to keep them standing for generations to come.

Ravenswood Gold also worked with expert heritage consultants and engineers to design a bespoke dismantling process for three other chimneys which were originally earmarked for destruction.

The dismantled pieces are stored at a purpose-built facility within the boundary of the heritage area for future public display, reassembly or research purposes.

Former Deep Mine and Mill prior to Ravenswood Gold's heritage preservation activities



Local investment

Each year, Ravenswood Gold directly contributes over \$250,000 to the local community through support of local organisations, donations, sponsorships, tourism development and events. In addition, the company provides local medical services, town maintenance and local improvement projects.

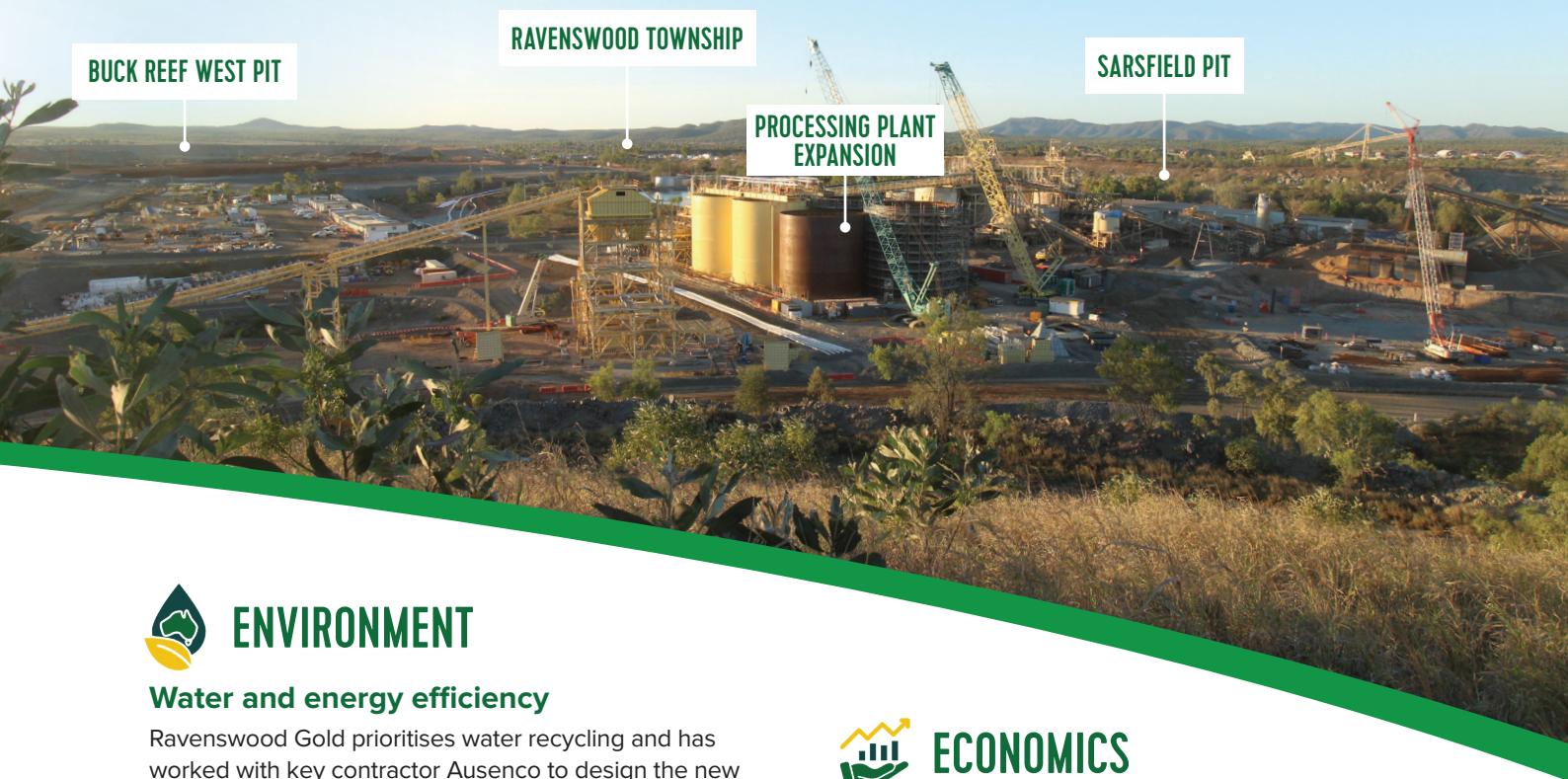
The expansion of the mine has and will result in additional contributions including:

- A new state-of-the-art primary school for Ravenswood, incorporating relocated and renovated heritage buildings from the historic school site
- Major road upgrades to improve safety and wet weather access
- A new, environmentally friendly waste transfer facility
- Upgrades to local tourist attractions

Traditional owners

Ravenswood Gold has a positive, collaborative relationship with the Birriah People and is working on a number of initiatives as part of Native Title Agreements. This includes:

- Increasing Birriah employment
- Provision of apprenticeship and traineeship opportunities for Birriah People
- An annual contribution to support training and professional development
- Regular collaboration opportunities.



ENVIRONMENT

Water and energy efficiency

Ravenswood Gold prioritises water recycling and has worked with key contractor Ausenco to design the new processing equipment in way that minimises water and energy use intensity. Around 80% of mine water usage is recycled water, with fresh water usage restricted as much as possible.

Wildlife management

Ravenswood Gold engaged Fauna Spotter Catchers to undertake capture and relocation of wildlife prior to and during broad scale clearing works. Implementing this program during clearing works helped to mitigate the impact of vegetation clearing on wildlife by relocating animals located within the area. The Fauna Spotter Catchers also undertook post-clearance surveys to rescue any displaced wildlife present in the area.

The process was extremely successful with the relocation and release of 447 individual animals from 32 species. These species consisted of snakes, lizards, geckos, monotremes, mammals, frogs and birds. The most common species was *Gehyra dubia*, a species of gecko with a total of 148 individuals relocated.

Monitoring system

An extensive monitoring system has been installed to ensure Ravenswood Gold appropriately manages any potential impacts of its operations on the local environment. This includes monitoring of water, air quality, noise and vibration across the mine site and through the town.

Advanced real-time air quality and noise monitoring equipment feeds information directly back to the mine site to allow appropriate management of noise and dust generation.

Significant investment in automated water monitoring equipment throughout local creeks as well as a team of full-time environmental staff helps to monitor the health of the local environment.



ECONOMICS

Regional employment

Around 90% of Ravenswood Gold's permanent workforce live in the region and drive to and from places such as Townsville, Charters Towers and the Burdekin.

Local goods and services

More than 60% of total project expenditure [to date] has been spent in Queensland and more than 30% has been spent with regional businesses.

This includes businesses such as Simmco Qld Pty Ltd, which has supported mining excavation and earth works in North Queensland for decades, Towers Concrete, a concrete batching and delivery company based in Charters Towers and Thomas Steel, a Townsville-based steel manufacturing and installation group.

Tourism industry

Ravenswood Gold is working with locals, industry and government to develop a sustainable tourism industry for the town.

This includes provision of a new museum and heritage precinct highlighting the town's mining history as well as the region's Traditional Owners.

**AROUND 80% OF MINE
WATER USAGE IS RECYCLED
WATER, WITH FRESH WATER
USAGE RESTRICTED AS MUCH
AS POSSIBLE.**

VALUES



RESPECT PEOPLE

We value and embrace diversity and open communication with our employees, community and traditional owners.



SAFETY MATTERS

For our people, our communities and our environment.



VALUE HIGH PERFORMANCE

Aiming to set the standard for sustainable development.



DELIVER ON COMMITMENT

Focus on key priorities and deliver with quality.



NEVER MISS AN OPPORTUNITY

Striving for continuous improvement across all aspects of our business.



WE CARE

We genuinely value and enjoy supporting our community, local history, and environment.



RAVENSWOOD GOLD

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Cover image: Geologists inspect drill core in front of a local historic chimney.

“WITH A STRONG TEAM AND A POSITIVE CULTURE, WE ARE WORKING HARD TO BE A GREAT NEIGHBOUR TO THE PEOPLE OF RAVENSWOOD AND A STRONG CONTRIBUTOR TO THE REGIONAL QUEENSLAND ECONOMY BY FOCUSING ON SUSTAINABILITY.”

– BRETT FLETCHER, CEO