

Andromeda

Great White Project

The Great White Project is a world-class mining opportunity for South Australia

- Kaolin is a naturally occurring, bright white industrial clay used in a wide variety of everyday products.
- Kaolin from the Great White Project (the Development) has exceptional purity, brightness and strength. Its applications include high-end ceramics, paints, concrete additives, and as a potential feedstock for the critical mineral, HPA.
- The proposed Development also contains halloysite, a rare tubular form (nanotube) of kaolin. Halloysite has potential use in multiple emerging nanotechnologies, including carbon capture and conversion, hydrogen storage and enhancing medicine effectiveness. Halloysite is also a cost-effective formwork for creating carbon nanotubes.
- While the Development has one of the largest Reserves of halloysite-kaolin ever discovered, it has a small footprint with minimal impacts on the environment and infrastructure.



Significant opportunity for South Australia

The proposed Development will establish South Australia as a key supplier of halloysite-kaolin to established and growing global markets. It has the potential to bring new industries to South Australia, including the production of concrete additives and HPA, as well as employment and direct economic benefits to the surrounding area.



\$93.8M
Initial capital expenditure



\$118.1M
State royalties (28 years)



\$1.7B
Increase to GSP (28 years)



Up to 40
Direct (FTE) jobs when production commences



Up to 70
Direct (FTE) jobs at full operating capacity



Up to 426
Indirect (FTE) jobs created

Project status:

- Mining Lease (ML) 6532 granted December 2021, supported by two Miscellaneous Purposes Licences (MPLs)
- Definitive Feasibility Study (DFS) completed April 2022 showing \$613M in pre-tax net present value
- PEPR submitted August 2022 and under assessment
- Binding agreements signed ensuring access to all freehold land required

Location: 15 km south-west of Poochera, Eyre Peninsula, South Australia

Ownership: Andromeda 100%

Products: Kaolin, halloysite-kaolin, paint and concrete additives, feedstock for high-purity alumina (HPA)

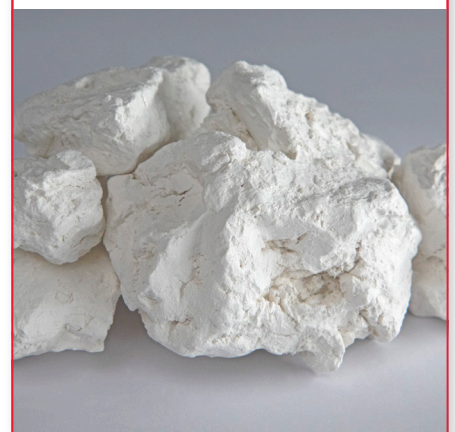
Life-of-Mine: 28 years

Proposed mining rate: up to 600,000 tonnes per annum

Mining method: Conventional excavation and trucking

Project execution:

- On-site wet processing, drying and bagging
- Transport by road to port
- Progressive increases in capacity and product refinement



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Project approvals

South Australia's Department for Energy and Mining (DEM) granted Mining Lease (ML) 6532 and supporting Miscellaneous Purposes Licences (MPLs) in December 2021, subject to conditions based on environmental outcomes (Mining Lease Conditions).

Following extensive stakeholder engagement, Andromeda lodged the Program for Environment Protection and Rehabilitation (PEPR) for the Development in August 2022. The PEPR demonstrates how the Development will comply with the Mining Lease Conditions and other regulatory requirements over the first 13 years of operation.

Pending all required approvals and a final investment decision (FID), on-site works are planned to begin in the first half of 2023. Andromeda aims to commence commissioning of the initial plant in late 2023, with the first product sales planned in the first half of 2024.



Environment and water

Kaolin mining, by its nature, has lower impacts compared with mining other minerals. Having formed near the surface, kaolin at the Development will be open-pit mined. By-products from on-site processing are sand and water.

Footprint: 331 ha (ML and access road MPL)

Surrounding environment: Approximately 50% of the ML sits in existing cleared land, currently used for grazing and dryland broadacre farming. The remaining area is grazed mallee vegetation.

Water supply: Andromeda will source water for the proposed Development from the trunk main along the Eyre Highway. The existing infrastructure along Streaky Bay Road will be supplemented with a larger, parallel pipe to the Poochera – Port Kenny Road offtake. A new water pipeline will extend supply from Streaky Bay Road to the mine site. This is currently in engineering and design phase. Water will be trucked to the mine site until the completion of the water pipeline.

The Development has been designed to retain and recycle around 90% of its water.

Rehab and closure: Andromeda is committed to reinstating the land to a safe and stable condition through progressive rehabilitation and re-vegetation. Due to the removal of kaolin, at the end of the project, a depression will be left with reformed slopes. A Mine Closure Plan will be approved with the PEPR.



Roads

Andromeda has committed to upgrading Poochera – Port Kenny Road to accommodate additional traffic from the Development. Upgrades will be staged as mine production (and road use) increases. Andromeda's commitment extends to ongoing maintenance of the road for the Life-of-Mine.

The intersection of Poochera – Port Kenny Road with Streaky Bay Road will be upgraded and widened during the construction phase to accommodate trucking configurations to be used for the proposed Development. Upgrade designs have been approved by the Department for Infrastructure and Transport.

In response to community feedback, Andromeda is committed to halting haulage trucks along Poochera – Port Kenny Road during the time of school bus trips. This commitment includes the operation of water trucks.

Engagement highlights



1650+
Stakeholder
interactions



270+
Registered community
stakeholders



127+
Registered for career
updates



115+
Registered for supplier
updates



Partners with our Community


Andromeda values the relationship we have with the local community and will work hard to build and preserve it. We will source skills locally wherever possible, apply a 'shop locally' policy and encourage our team to join and contribute to the local economy.

As well as job creation, the Development will support additional community services in the region. It is expected that our workforce will be sourced and reside locally.

Contact

 www.andromet.com.au

 Level 10
431 King William Street
Adelaide SA 5000

 +61 8 7089 9800

 info@andromet.com.au

 [andromeda-metals](https://www.linkedin.com/company/andromeda-metals)