Murujuga (Burrup) Rock Art Conservation Project

Help save the Burrup Peninsula’s world famous rock art.

Support independent scientific research urgently needed to protect the art from permanent damage from industry.

Western Australia’s Burrup Peninsula, known as Murujuga to local Indigenous people, has the largest concentration of ancient rock engravings in the world.

The site

The world’s oldest images of the human face, dating back more than 30,000 years, are found at Murujuga. The area contains over one million engravings recording the lives and spiritual beliefs of the first Australians. These include extinct animals such as the Tasmanian tiger, fat-tailed kangaroos, as well as numerous species of birds, reptiles, mammals and marine animals.

The art, extraordinary in its beauty and its diversity, is a profoundly significant heritage icon for Australia and the world.

The art extends back tens of thousands of years — long before the 17,000 year old Lascaux cave paintings in France, or Stonehenge or the pyramids of Giza, both built ‘only’ 4,500 years ago.

Murujuga, near Karratha, is the only place on earth where the story of people and their changing environment has been continuously recorded through art for over 40,000 years.
Unbelievably, Murujuga is threatened by industry and pollution.

Background

In 1868, the Yaburara people, the Traditional Owners of Murujuga and its art, were all but exterminated in the ‘Flying Foam Massacre’. This has allowed successive governments to sanction and encourage development of a huge industrial complex amongst the rock art.

- 1964 – establishment of a port of export iron ore
- 1968 – large scale salt production and export facility
- 1980s – natural gas processing facilities
- 1995 – two liquefied natural gas production plants
- 2006 – ammonium fertiliser plant
- 2016 – ammonium nitrate, explosives production facility, now being commissioned.

Protecting the art and cultural heritage

In 2002, after strong pressure from archaeologists and the public for more research into the impact of industrial emissions on the rock art, the state government established the Burrup Rock Art Monitoring Management Committee to commission scientific research to determine whether industrial emissions would have long-term effects on the rock art.

However, the reports to date contain poor statistical analyses of data, and the Committee has subsequently been disbanded.

There have been a number of reportable incidents over the past years of gas and acid leaks, but some industry reports to government showed demonstrably poor monitoring of emissions.

The true impact of any leaks and emissions on rock art and the broader environment are unknown because appropriate monitoring is not being done.

The emissions

Greenhouse gases
Pollutants include nitrogen dioxide, nitrous oxide, carbon monoxide, methane, ammonia, dust-sized ammonium nitrate particles and greenhouse gas equivalents.

Acid rain
High emissions have been proven around the world to produce acid rain, which degrades rock surfaces and affects human health. Impacts for rock art are cumulative and increase with every year of emissions.

Nitrogen
Murujuga rocks and soils are extremely low in nitrogen. The nitrogen deposits from industrial emissions will exponentially increase the local growth of microbes and plants, and this poses a massive threat to the rock art.

Graffiti
Graffiti is another serious issue impacting on the rock art.
Time for Action

For these reasons, the Murujuga Aboriginal Corporation, the Friends of Australian Rock Art and The University of Western Australia's Centre for Rock Art Research and Management are establishing an independent scientific project to monitor industrial pollution on Murujuga and changes to rock art, to model the future effects of identified pollution, and to recommend measures to mitigate damage.

The project brings together an international, interdisciplinary team including Traditional Owners, Indigenous Rangers, archaeologists, concerned public, rock art specialists, geologists, geochemists, geomicrobiologists, atmospheric chemists, climatologists and earth systems modellers.

The research team will measure:

- concentrations of pollutants in the air and on rock surfaces at numerous rock art sites
- changes in rock colour, chemistry and surface structure of background rock and engravings
- air temperature, humidity, wind speed and direction
- rock surface temperature and humidity gradients on exposed rock
- microbial growth on background rock and engravings
- rainfall, acid load and acidity of rain, mineral leaching from rocks and soils
- soil and stream mineral content and acidity
- changes in plant species and growth patterns.

This project, which will continue for at least 5 years, will be built around the values of openness and transparency, with data from real-time atmospheric monitoring available through a dedicated website.

A detailed project plan is being developed with each activity and time lines specified.

The project is expected to cost approximately $500,000/year.

We are seeking funding from philanthropic organisations and individuals around the world – all donations will help us to gain matched governmental grants.
Donate now
For tax-deductible donations, please contact

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We are soon to confirm whether the National Trust (WA), the WA Museum and the Conservation Council of WA are able to accept tax-deductible donations on our behalf. Check our website www.fara.com.au for details from early November.

For those preferring to make a one-off donation, we are soon to launch an exciting Crowdfunding initiative with tempting rewards – keep your eye on the FARA website for details!

Brought to you by the Friends of Australian Rock Art.
For further information visit www.fara.com.au or email info@fara.com.au

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