



TAILINGS MANAGEMENT

Our Tailings Storage Facility at DeGrussa Copper Mine

Sandfire manages one active Tailings Storage Facility (TSF) at the DeGrussa Copper Mine. Commissioned in 2012, the downstream designed facility is located within an Integrated Waste Landform. This is considered to be one of the most stable TSF design options.

Tailings are deposited into a circular impoundment with a composite liner comprising high density polyethylene and compacted clay. The impoundment is surrounded by waste rock.

We are committed to responsible tailings management to minimise the risk of failures, maintain regional biodiversity values, protect groundwater, prevent uncontrolled releases and reduce long-term closure liabilities. We view this responsibility as a fundamental component of our social licence to operate.

Monitoring and compliance

Our TSF is governed in accordance with our Environmental Management System Standards and operated in line with regulatory approvals. The approved Mine Closure Plan for the DeGrussa Copper Mine considers long-term monitoring of physical, chemical and biological aspects of the TSF post-closure.

Annual independent audits of the DeGrussa TSF are conducted by specialist engineers and are undertaken in accordance with the Department of Mines, Industry Regulation and Safety and the Australian National Committee on Large Dams (ANCOLD) standards. The audits cover aspects of groundwater monitoring, geotechnical stability and tailings management practices.

The most recent review was completed in December 2018 and found that the DeGrussa TSF is operated and managed in accordance with the approved design and complies with the approved mining proposal.

Dam break assessments of the DeGrussa TSF were conducted in 2011 and 2018. All engineering records related to design, construction, operation, maintenance and closure are kept electronically and in hard copy.

Historical Tailings Storage Facilities

Sandfire owns mining tenements in Western Australia and New South Wales where historical, inactive TSFs are situated.

Copper concentrate production at the historical Thaduna mine in Western Australia occurred from 1969 to 1971. Two TSFs were developed during this period. Liability for the Thaduna TSFs rests with the State of Western Australia due to a historical lapse of tenure.

The historical Gidginbung gold mine in New South Wales was in production from 1987 to 1996. One TSF is located to the west of the open pit. Liability for the Gidginbung TSF rests with the State of New South Wales due to a historical lapse of tenure and is managed by the NSW legacy mines program.

Sandfire has a financial interest in Adriatic Metals PLC and Kingston Resources Ltd, both of which conduct exploration activities on tenements that contain historical, inactive TSFs. Sandfire assumes no liability for these TSFs.

DeGrussa Copper Mine TSF specifications

Location	25°32'11.88"S, 119°18'54.70"E.
Ownership	Owned and Operated
Status	Active
Date of initial operation	September 2012
Raising method	Downstream
Current Maximum Height	17m
Current Tailings Storage Impoundment Volume	3.04 x 106 m3
Planned Tailings Storage Impoundment Volume in 5 years' time.	6.28 x 106 m3
Hazard categorisation	Medium (Determined in accordance with Western Australian Department of Mines, Industry Regulation and Safety Code of Practice, and the Australian National Committee on Large Dams)
Past failures	Nil

Approvals

The above information was prepared in accordance with the Church of England Pensions Board and Swedish Council on Ethics for the AP Public Pension Funds request for disclosure on tailings management and approved by Sandfire Resources CEO and Managing Director Karl Simich.