
Glossary

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Term	Description
Acidity	Latent acidity is a hidden stock of potential or future acid generation, based on a range of factors including local environmental geochemical conditions
AMD	A result of the exposure of some sulfide minerals to oxygen and water, resulting in drainage waters that can be acidic and/or have high concentrations of dissolved metals. The drainage produced from the oxidation process may be acidic or neutral, with or without dissolved heavy metals, but always contains sulfate.
Burra Charter	The Australia ICOMOS Charter for Places of Cultural Significance, 2013
Curtilage	The area of land occupied by a dwelling and its yard and outbuildings, actually enclosed or considered as enclosed
dB(A)	Frequency weighting filter used to measure 'A-weighted' sound pressure levels, which conforms approximately to the human ear response, as our hearing is less sensitive at very low and very high frequencies
Decibel	The unit used for expressing the sound pressure level (SPL) or power level (SWL) in acoustics
Endorheic basin	Closed drainage basin retains water and allows no outflow
Equivalent sound pressure level	The steady sound level that, over a specified period of time, would produce the same energy equivalence as the fluctuating sound level actually occurring
Gangue	Valueless rock or mineral aggregates in ore
Indigenous land use agreement.	A formal agreement under the Native Title Act that contemplates access to land for the purposes of mining, mineral processing, and the placement of associated infrastructure
JORC Code	Guidelines for public reporting of Exploration Results, Mineral Resources and Ore Reserves
Long term stockpile	Stockpiled ore scheduled for processing during life of mine
Mine site	Area comprising Mineral Lease Application ML 26659 lodged with the Northern Territory Government by Arafura in February 2008. Includes the mine, concentrator and associated infrastructure.
Mineral Resources	Defined under the JORC Code as concentration of solid material of economic interest in such form, quality and quantity that there are reasonable prospects of economic extraction

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Mineral Titles Act	Legislation that regulates mineral exploration and mining titles in the Northern Territory
Monazite	A phosphate mineral that may contain up to 70 wt% REO
Nolans Bore	The Nolans Bore deposit, resource or mineral resources
Nolans Project or the project	Comprises the development of the proposed Nolans site
Nolans site	The collective term refers to the project site including all components - mine site, processing site, borefield area, accommodation village, access roads, utilities corridors (potable water pipeline, water supply pipeline, power lines)
Ore	Ore used in the context of this document is a generic term for mineralisation, or metal-bearing mineral or rock
Ore Reserves	Defined under the JORC Code as the economically mineable part of Measured and/or Indicated Mineral Resources
Processing plant	The plant within which the RE extraction processes are undertaken to produce the RE intermediate products
Processing site	Area comprising the processing plant, ancillary plants and supporting infrastructure
Pyrite oxidation	Pyrite oxidation by atmospheric and/or aqueous oxygen occurs through a complicated sequence of biologically mediated reactions
Rating Background Level.	The overall single-figure background level representing each assessment period (day / evening / night) over the whole monitoring period
RE extraction	Process converting RE concentrate to the RE intermediate product for RE separation
RE intermediate	The product from the RE extraction process in the form of a mixed RE compound which is the feed for the RE separation process
RE separation plant	Comprises the plant and associated ancillaries for processing RE intermediate to separated REO products. Note this will be an offshore plant and is not part of the EIS scope of work.
Reject gangue	Valueless rock or mineral aggregates in an ore
Section	A section reference within the report
Southern Basins	Northern Burt and Eastern Whitcherry basins
The project	Nolans Rare Earth Project