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Red Earth Engineering

Red Earth Engineering Pty Ltd (REE) was founded in 2009 to provide the mining/oil and gas industries with a value driven engineering service that combines our geotechnical core skills, dam expertise and pragmatic construction approach to significantly improve the delivery outcomes for our clients.

With over 100 year's collective design experience and direct access to the world's leading geosynthetics authorities, REE is a market leader in the engineering design and construction supervision of projects utilising geosynthetic solutions. As geotechnical and geosynthetics specialists, we are able to offer seamless technical supervision, documentation and certification of earthworks and geosynthetic installations.

REE has designed multi-layered geosynthetic liner systems for the containment of hazardous liquids with high operational temperatures in dams and robust capping systems for long term environmental protection of mining waste disposal areas.

REE utilises a stringent process for the selection of geomembranes. The design life is estimated using Arrhenius modelling based on immersion testing performed on geomembrane samples to quantify their chemical compatibility with the likely field exposure conditions.

REE specialises in development and calculation of Action Leakage Rates (ALRs), forensic investigations for exceedance of ALRs and the assessment of root causes that develop whales in operating facilities.

REE has developed our own Liner Integrity Testing (LIT) services adding to our ability to provide a fully certified Quality Assurance package for our clients.

REE also drives innovation and continues to fund research and development of emerging technologies to further improve the design and installation of geosynthetics.

REE is currently responsible for the design and installation of projects in Australia and overseas with over 1,500,000 m² of geomembrane liner.

