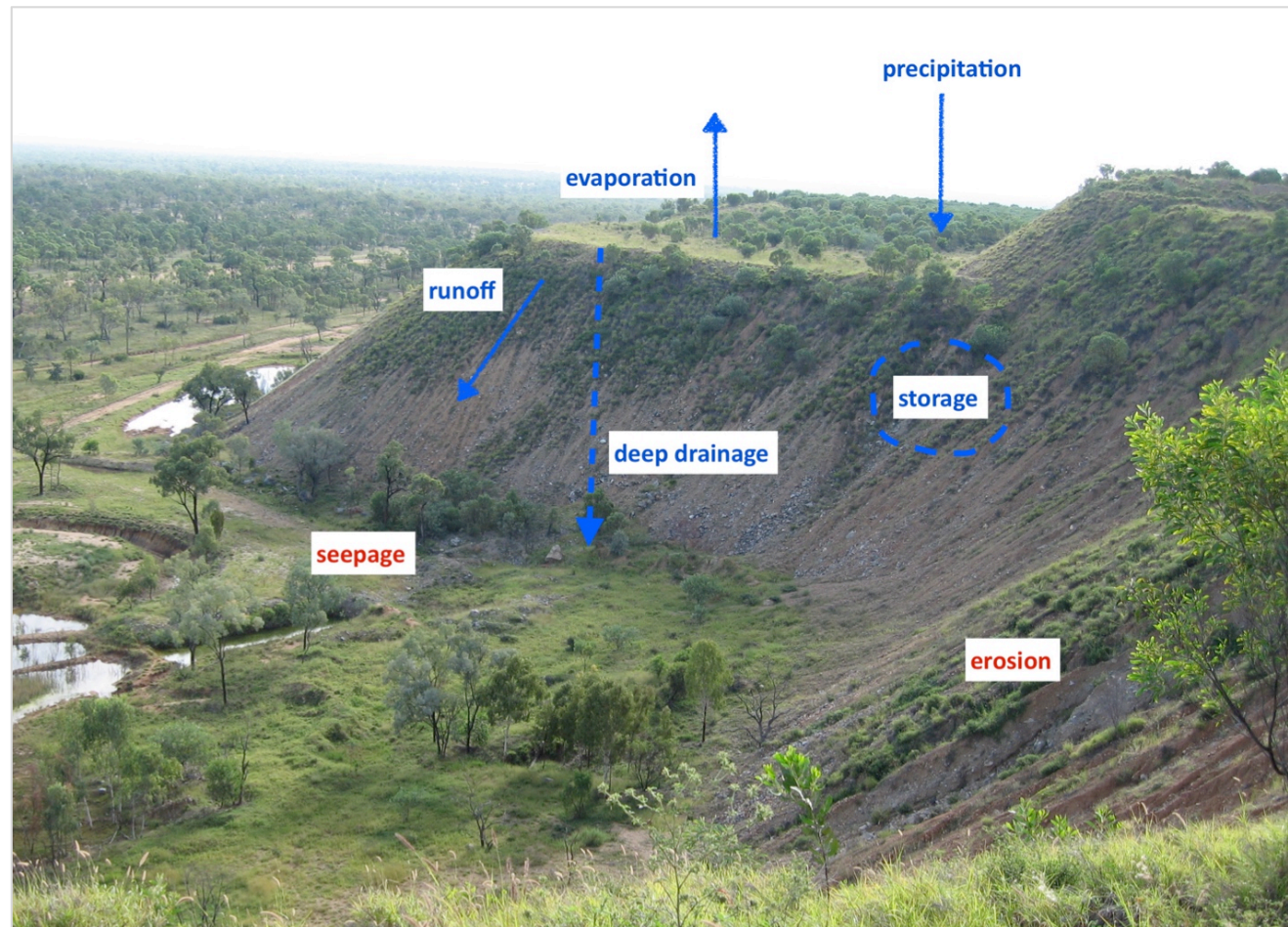


Primary Research Objective

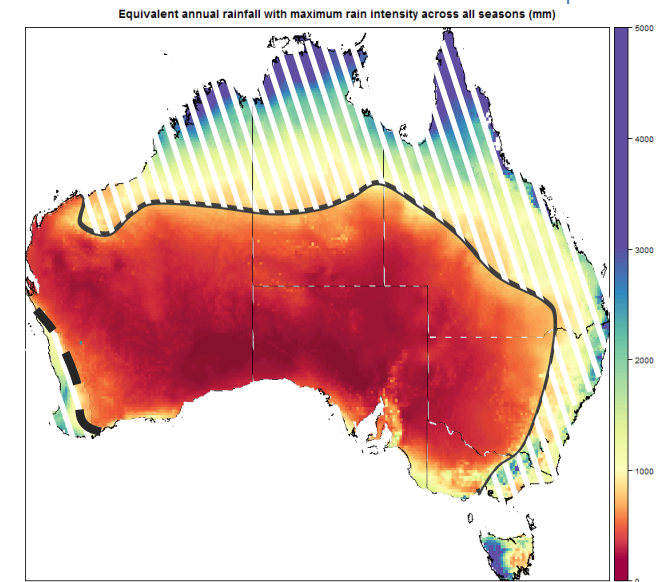
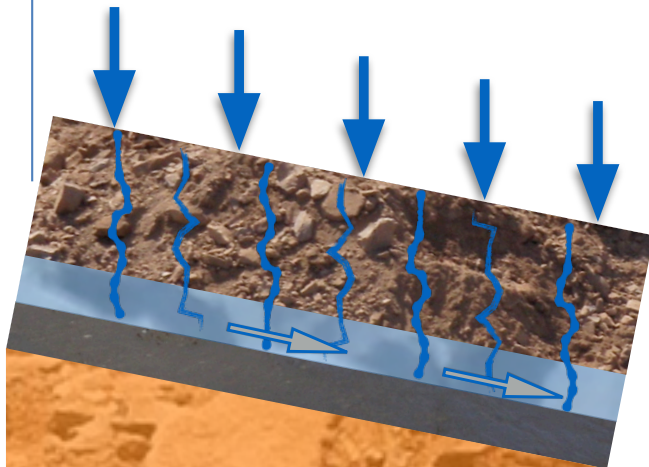
creating a safe, stable, sustainable, non-polluting environment

Water and the hydrologic cycle



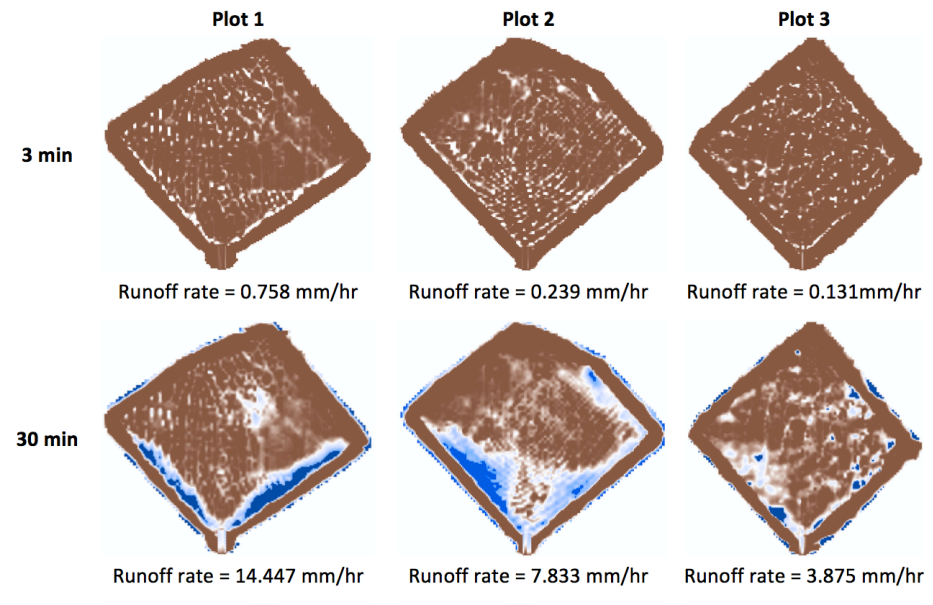
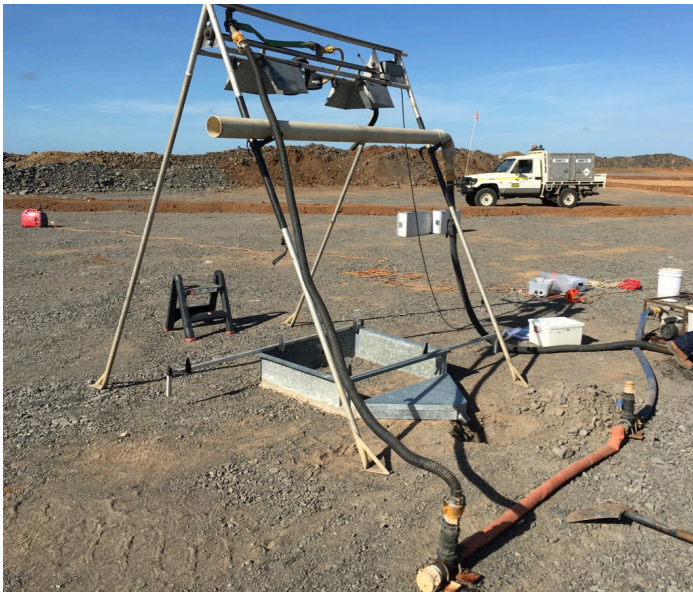
Controlling water flow

- Designing, constructing and monitoring of covers
- quantification of risk of deep drainage through designed covers constructed from waste rock
- Applicability of cover type in Australia

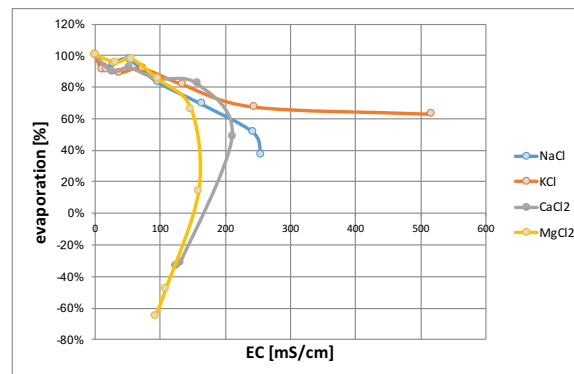


Improving certainty: quantification of runoff

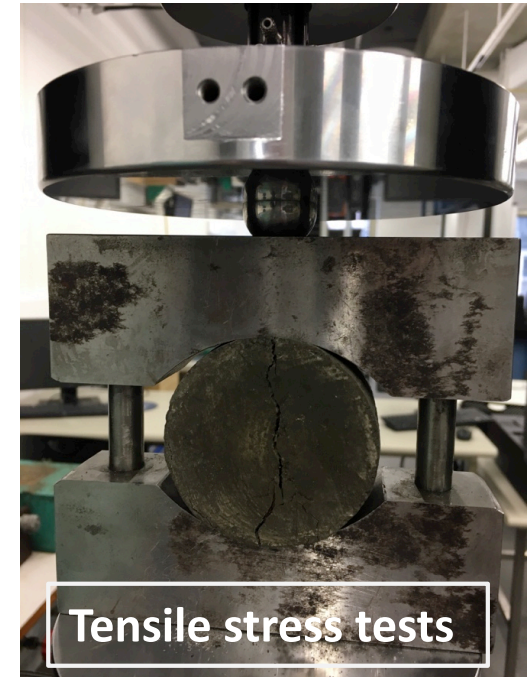
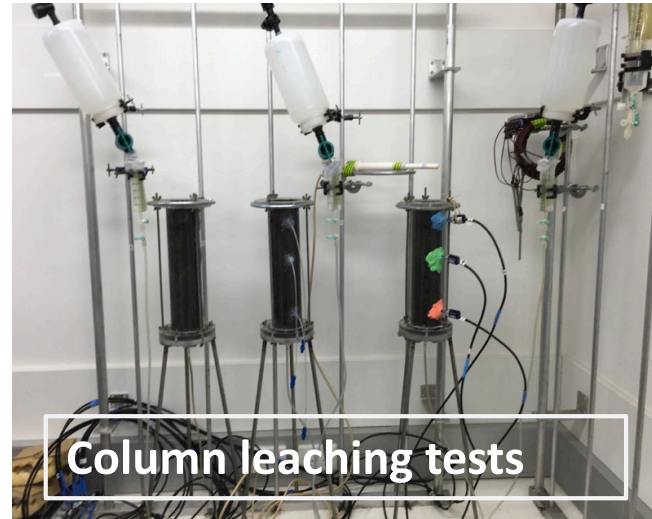
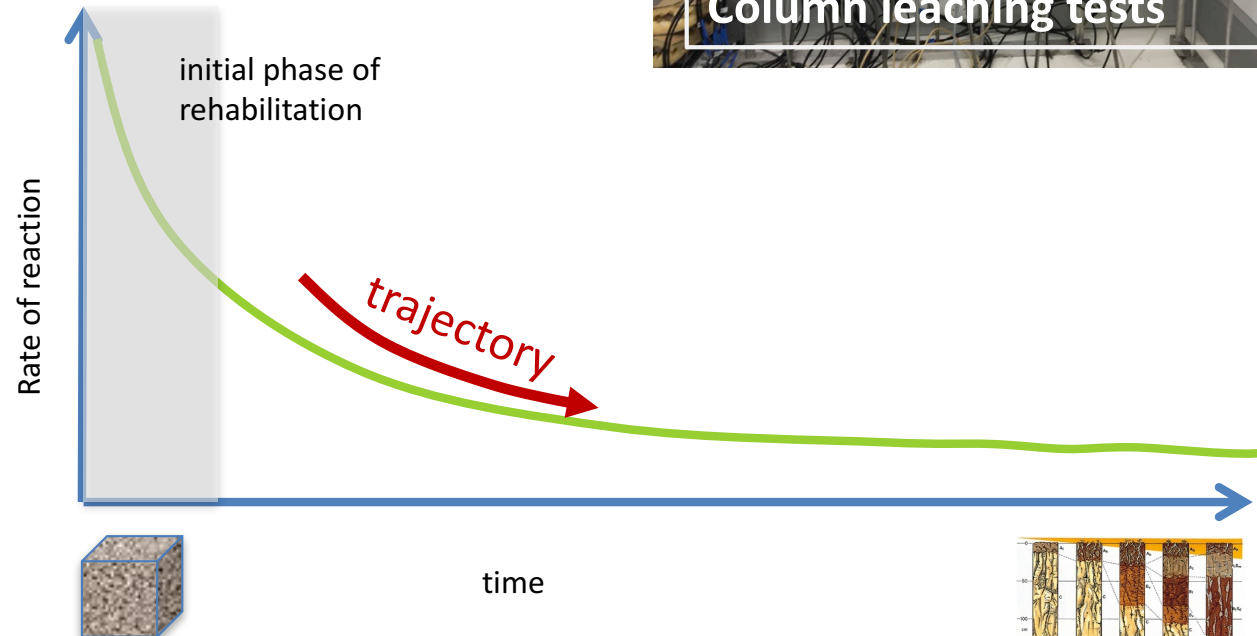
- RunCA: code developed as part of PhD
- Application on test plots



Salinity and evaporation



Physical, chemical and mechanical transformation and alteration of mine waste



Vision

- Holistic planning of a **stable and sustainable landform** during LoM for mine closure.
 - Application of GIS and integration with values identified identified by stakeholders
 - Identification of waste rock properties (NAF; PAF); [sensor development]
 - Planning for stable landforms and landscapes; prediction of trajectory of landscape/soil evolution
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