

Australian Research Council Linkage Project 0450486

Understanding reaction products of granular and fluid P fertilisers in Australian soils: a way to enhance fertiliser efficiency

Industry Partners: Wesfarmers CSBP Ltd
South Australian Grains Industry Trust

Project Team: The project team comprises Mike McLaughlin and David Chittleborough (University of Adelaide) and Enzo Lombi (CSIRO Land and Water).

The project is due to commence early in 2004. Despite posing significant challenges for crop P nutrition, alkaline soils are widespread in Australia and their agricultural use accounts for a significant fraction of the crop production nationwide.

The benefits of fluid fertilizers over conventional granular products in these soils have been agronomically demonstrated. Knowledge of the behaviour of these products, provided through an understanding of the fundamental mechanisms and reactions occurring, is critical to improve crop productivity.

This project aims to study the reactions of fluid and granular fertilizers in soils using advanced spectroscopic and isotopic techniques, in order to provide a scientific basis for improving formulations and effectiveness.

Progress to date

Not yet commenced.





