

Eugene McGahan

BE (Agr), MEng, MASAE, RPEQ, Cert IV Workplace Training and Assessment

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Since 2001, Eugene has worked as a Senior Engineering Consultant with Feedlot Services Australia Pty Ltd (trading as FSA Consulting).

Eugene's work focuses on environmental management issues related to agricultural and agro-industrial industries. This includes research and development projects, environmental impact assessment and environmental management, nutrient and water balance modelling to size effluent treatment ponds and irrigation areas, odour impact assessment and environmental management training.

From 1995 to 2001, Eugene was a Senior Environmental Engineer with the Intensive Livestock Environmental Management Services group, Department of Primary Industries (Queensland). His primary role was to conduct research in the area of intensive livestock environmental management, including: waste estimation, treatment and reuse; odour measurement, dispersion and modelling; land planning of intensive animal industries on a regional scale; computer model development and housing systems for intensive pig production.

From 1994 to 1995, Eugene was a design engineer with Feedlot Services Australia Pty Ltd. In this position, he designed feedlots (including pens, induction/receival/dispatch facilities, water and drainage system and infrastructure), irrigation systems (head ditches and ring tanks), modelled the odour impact of feedlots, prepared feedlot licence applications and environmental impact statements for piggeries.

From 1988 to 1994, Eugene was a Research Engineer for the Agricultural Engineering Section, Department of Primary Industries. His primary role was working on three research projects:

Eugene is a partner in a family beef cattle grazing property and also a partner in a native grass seed harvesting business.

Fields of Special Competence

- Livestock and other organic waste management.
- Life cycle assessment.
- Greenhouse gas emission modelling and abatement.
- Energy efficiency in intensive livestock industries.
- Environmental impact assessments.
- Environmental management training.
- Design and modelling of effluent irrigation systems.
- Odour research and assessment.
- Design of cattle feedlots.
- Developing environmental management systems.
- Native grass seed harvesting and establishment.

- Beef cattle husbandry and crop production.