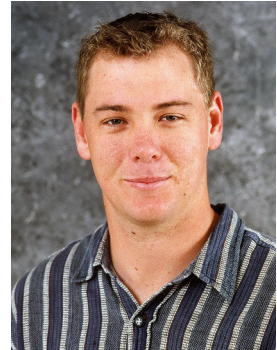


Simon Barker

BE (Env)

CAREER SUMMARY

Simon Barker joined Feedlot Services Australia Pty Ltd (T/A FSA Consulting) in September 1998. He is a Design Engineer with this firm. His skills include effluent and solid waste management, treatment and reuse; soils analysis and investigations; surface water monitoring and water flow modelling. These skills have been used for the preparation of licence applications for intensive livestock facilities including pigs, cattle and aquaculture. Simon is also experienced in accurate earthworks calculations for large scale, agricultural, mining and civil tenders.



For four months during 1998, Simon was employed as a Project Engineer for Gilbert and Sutherland. During this time, he was involved in soil and water sampling, testing and modelling; and other soil and water resource consultations.

QUALIFICATIONS

- Bachelor of Engineering (Environmental) - Griffith University.

EMPLOYMENT DETAILS

Fields of Special Competence

- Preparing environmental impact assessments and environmental management plans for intensive livestock, abattoirs and other industries.
- Designing and sizing effluent treatment and reuse facilities using computer modelling (e.g. MEDLI, Pigbal).
- Water storage and flood irrigation designs
- Earthworks calculations for agriculture, mining and other civil projects

Professional Experience

September 1998 to date

Simon commenced work as a design engineer with Feedlot Services Australia Pty Ltd, trading as FSA Consulting. His experience comprises:

- Developing Environmental Impact Statements for piggeries, beef feedlots, aquaculture and other industries.
- Compiling Environmental Management Plans for beef feedlots, piggeries, aquaculture and other industries.
- Developing AUS-Meat quality assurance manuals for feedlots including EU requirements.

- Producing feedlot capital cost estimates.
- Preparing feedlot, aquaculture and vermiculture feasibility studies.
- Designing beef feedlots and calculations of earthworks required.
- Designing effluent treatment and reuse plans for intensive livestock facilities, abattoirs and sewage treatment plants using MEDLI and other computer models.
- Designing irrigation systems, ring tanks, channels and drains; and preparation of irrigation scheme plans and specifications.
- Calculation of accurate earthworks for agriculture, mining and other civil tenders.
- Developing environmental training packages for the Meat and Egg Chicken Industries.
- Preparing water management plans for mining developments.
- Preparing certification of works reports for lodgement with the NRW.

March 1998-June 1998

Simon was employed as a Project Engineer for Gilbert and Sutherland. He was involved in:

- Soil and water sampling, testing and modelling
- Hydrological modelling of creek flows.

PUBLICATIONS

Barker, SJ, 1997, 'Disinfection of Bacteria Through the Use of Constructed Wetlands', *BENG Thesis*, Griffith University, Brisbane,

Barker, S.J. and McGahan, E.J. 2007, *Assessment of Nutrient Balance Calculators for Piggeries – Milestone Report: 31st March 2007*, APL Project No 2137, Australian Pork Limited, Canberra.

Barker, SJ, McGahan, E.J., Hudson, N., Duperouzel, D. and Clayton, C. 2007, *Composting of Piggery Manure and Mortalities, Milestone Report – Odour emissions from co-composting in the pig industry*, APL Project No 2140, Australian pork Limited, Canberra.

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Watts, P., Baker, K., **Barker, S.**, Heinrich, N., Nielsen, W., Schmidt, E. & McKeering, L. 2008, *Regional Statistics Collation and Benchmarking South East Queensland*, National Centre for Engineering in Agriculture, Publication 1002541/1, Queensland, Australia.

Watts, P., **Barker, S.**, Heinrich, N., & Fairfull, A. 2008, 'Overland flow – What is it?' *Proceedings of Irrigation Australia Conference 2008*, Irrigation Australia Ltd, Melbourne, Vic, Australia.

Watts, P., **Barker, S.**, Heinrich, N., & Fairfull, A. 2008 *Estimating Land Surface Diversions*, Stage 1 Final Report for Murray-Darling Basin Commission, FSA Consulting, Queensland, Australia.