

SENIOR ENVIRONMENTAL SCIENTIST

DAVID FRANCIS

QUALIFICATIONS:

Bachelor of Science, Honours IIA in Botany
(University of Queensland 1992)

BSc (Hons)
MEIANZ

CAREER SUMMARY:

2003 - Associate, Chenoweth EPLA
2000 - 03 Senior Environmental Scientist, Chenoweth EPLA
1995 - 00 Greening Australia Queensland (Inc.): Department of
Main Roads Extension Officer and Environmental
Management Consultant
1993 - 95 Field Officer, Greening Australia
1993 - 95 Research Officer, Dept of Primary Industries and CSIRO

David is an environmental scientist with 15 years experience. His experience extends to flora survey and assessments, Regional Ecosystem mapping, conservation significance mapping, corridor ecology, fauna 'friendly' road design, revegetation techniques (grounded in 7 years hands-on work with Greening Australia) and community consultation.

Professional expertise includes:

- Regional Ecosystem mapping
- Conservation Significance Mapping
- Highway corridor revegetation
- Ecology & taxonomy of native flora and fauna
- Urban vegetation management
- Revegetation plans

AWARDS & OFFICES:

- Convenor of the 2009 Breaking the Barriers: Engineering Solutions to Ecological Problems Symposium;
- Expert Panel for EPA's SEQ Biodiversity Planning Assessment
- NR&M's Vegetation Incentives Program southern region assessment panel member
- Biodiversity Working Group for the 2003 Queensland State of the Environment Report
- Member of the Greening Australia Queensland (Inc.) Board 2001-2003
- Finalist for the 1998 Young Australian of the Year Award for Outstanding Achievement in the Environment
- Highly Commended Certificate at the Australasia Pacific Extension Network Awards for Excellence in Extension, 1999
- Winner of the 1998 Queensland Arbor Day Awards in the Corporate Tree Planter Category, for the Freeway Greening Project (jointly with Department of Main Roads)
- Golden Key National Honour Society, Griffith University Chapter 1999

with particular skills in:

- Community consultation & networking
- Project management
- GIS

CONTINUING PROFESSIONAL DEVELOPMENT:

- Identifying Regional Ecosystem Training Course (NR&M, 2003)
- Train the trainer (AIMS 1994)
- Bush Tucker & Craft (Ithaca TAFE Adult Education 1994)
- Community Extension, Gatton College 1995 Short Course
- Botanical Illustration, Margaret Saul School of Botanical Illustration

PERSONAL INFORMATION

Born: 13/4/71 Brisbane, Qld

Nationality: Australian



KEY PROJECT EXPERIENCE: CHENOWETH EPLA

Conservation Significance Mapping & Reporting

- Mission Beach Biodiversity Significance Report
- Common Nature Conservation Classification System mapping for Caloundra City Council, Beaudesert Shire Council, Gold Coast City Council and Caboolture Shire Council
- Koala habitat mapping and conservation strategy for the Tinana area for Maryborough Shire Council
- Redcliffe City Vegetation Mapping and Biodiversity Planning Study
- Mirani & Nebo Habitat and Biodiversity Planning Study

Broad Scale Regional Ecosystem / Vegetation Mapping / Ecological Inventories

- Regional Ecosystem mapping for the Mt Lindesay area for Logan City Council
- Beaudesert Shire Council Vegetation Mapping,
- Tamborine Mountain Flora and Fauna Report – Project management, mapping of remnant vegetation, regional ecosystems, threat analysis and prescription of mitigative measures.
- Gold Coast City Council's Springbrook Conservation estate vegetation assessment

Environmental Planning

- Ecological planning studies for Beaudesert Shire's Whole of Shire Planning Project
- Greater Flagstone, Bromelton and Beaudesert Town outline structure plans
- Richmond Valley Shire Council (NSW) Corridor and Wetland mapping
- Maryborough – various ecological assessments for Council
- Revision of the 'fire and biodiversity' section of the Gold Coast City Council Bushfire Strategy
- Springbrook – Burleigh head corridor studies (including fauna crossing design in the Reedy Creek area)
- Currumbin Sanctuary Environmental Constraints Study
- Coomera Town Centre Environmental Management Strategy.
- Conservation Significance assessments at Alabar.
- Avatars Abode Vegetation mapping, Flora Assessment and Weed Management Strategy.

Rehabilitation Plans

- 'Viridian' Noosa rehabilitation plan (winner of the AILA 2008 National Awards for Landscape Architecture in the Conservation Division)
- Burnett River Dam flora and fauna conservation strategy
- Varsity Lakes Open Space Rehabilitation Strategy
- Waterway Action and Rehabilitation Program (WASP) sites for Logan City Council
- Various plans in response to unapproved tree clearing for Beaudesert Shire Council

Environmental Assessments

Development Sites

- 'Oasis' Mission Beach Flora Assessment
- 'Tannum Waters' Flora assessments and Regional Ecosystem mapping;
- 'Monte Christo Resort' (Curtis Island) Flora and Fauna Assessment
- 'Moreton Reach', Mango Hill Ecological Assessment
- 'Springfield Lakes' Vegetation Studies, environmental assessments
- 'Rocky Springs' (Townsville)
- Brisbane - 'Chermside Shopping Centre'; 'Chapel Hill Rise'; 'Evvien'; 'Francis Street'; 'Payne Road Project'
- Gold Coast – Paradise Point; Thompson Land; 'Northern Element'; 'Queensland Breweries'
- Assessment of impacts on flora and fauna associated with the construction of the Tugun Bypass in Hidden Valley.
- Vegetation assessment Peaks Crossing bridge upgrade, Department of Main Roads.

PAPERS

- "Planting for Restoration" Gold Coast Bush Regeneration Fair, 2008
- "Sources & Resources" Australian Network for Plant Conservation rehabilitation workshops, Gatton & Mt Coot-tha, 2004
- "Use of Native Grasses for maintenance reduction in Road Verges" Shades of Green Conference PLA, 2003.
- "Managing Flora and Fauna in Roadways" – Northern Grassy Landscape Conference, 2000
- "Freeway Greening Project: a case example of vegetation management in transport corridors" – Transport Corridor Management Conference, 1999
- "Greening Australia Activities Metropolitan District of Main Roads" – Department of Main Roads South East Region Symposium, 1999.
- "Roadways and Native Vegetation" – Department of Main Roads Southern Region Symposium, 1998.
- "Freeway Greening as a model for community involvement in tree planting" – Managing and Growing Trees Conference, 1996.

Quarry Sites

- Bracalba Quarry development application
- Gregory Quarry due diligence
- Tichum Creek Quarry due diligence
- Ormeau Quarry development application
- Narangba Quarry development application
- Petrie Quarry development application
- Dundowran Quarry development application

Contribution to Environmental Impact Assessments

- Clermont Coal riparian vegetation assessments for EIS
- Dent Island Golf Course Vegetation Mapping and Flora Assessment for EIS.
- Nathan Dam and Glebe Weir EIS (in progress).

Environmental Management Plans

- Viridian Noosa (Bayview Noosa) Rehabilitation Plan and Flora and Fauna IMP
- EMP for the Springfield – Beaudesert Connection Road & Main Lakes
- Site-based Stormwater Management Plans for industrial developments at Virginia and Eagle Farm
- Environmental Management Plans for residential and industrial developments at Cannon Hill; Brighton; and Eulbertie Park, Mackay.

Vegetation Management Act 1999 Experience

PMAVs &/or Regional Ecosystem map change request

- Farrier Island
- Tannum Waters

MCU, RaL and On-going Purposes applications

- Funnel Bay, Airlie Beach
- ‘The Springs’, Agnes Waters
- Mulambin Beach
- Coppabella mining camp

Offset Packages

- Attunga Heights
- Boral Ormeau

Other

- Advice to NRW regarding the Gold Coast hospital

Referrals under the Commonwealth’s Environmental Protection and Biodiversity Conservation Act

- Assessment of offset measures for a development located at South Mission Beach
- ‘Oasis’ Mission Beach
- ‘Moreton Rise’ Mango Hill

Barrier Mitigation Assessments / Fauna Crossing Structures

- Reedy Creek for Gold Coast City Council & subsequently Maunsel AECOM
- Wongaling Corridors (for Cassowaries at Mission Beach)
- Ecological Corridors and Edge Effects Project & Greenbank – Karawatha Corridor Case Study

GREENING AUSTRALIA

- Technical advice to Department of Main Roads on vegetation management, including trials, landscape design & species selection.
- Investigation of suitable native grasses for use in roadsides (joint project between DPI and University of Queensland, Centre for Mined Land Rehabilitation).
- Community consultation and involvement in community based planting activities adjacent to road corridors. Involved over 2,000 volunteers in community based tree planting activities.
- Initiation & organisation of “Transport Corridor Management Conference” (Brisbane, November 1999) with national and international speakers and a nation-wide audience of 265 people involved in the management of roadside vegetation.
- Jointly organised a workshop with engineers, hydrologists and fauna experts from the Department of Main Roads, 4 local Councils, University of Queensland and private enterprise to discuss ways to modify culverts to facilitate fauna movement under roadways. Subsequently pursued the development of standard engineering drawings of the modifications proposed at the workshop.
- Prepared preferred species manuals for Department of Main Roads Metropolitan and Gympie Districts. This included maps of both districts based on broad vegetation categories and lists of commercially available native species suitable for roadways that were endemic to the broad categories.
- Managed a Department of Main Roads reserve containing 3 species of significance including the largest population of the rare *Notelaea* sp. of which there are only 20 known specimens. This included community involvement, site rehabilitation, propagation of the species and sourcing of grants.
- Discovered the rare *Keraudrenia* sp. in a road reserve in north Brisbane.
- Shifted a 1 tonne specimen of the rare *Notelaea lloydii* from an area affected by a road upgrade to a rare plants garden in Ipswich.
- Organised a 1.5km trial of the shrub *Myoporum montanum* in the median of the Gateway Motorway.
- Obtained a grant to investigate the frangibility of native vegetation in roadways in a joint project of Department of Main Roads and Brisbane City Council.
- Developed and implemented rehabilitation plans for 6 expired Department of Main Roads Depots involving over 3ha of direct seeding with locally collected seed and the planting of over 7,000 trees.
- Managed an ongoing rehabilitation program on a 1ha road reserve bushland remnant at Tarragindi including management of Community Service Orders, volunteers and grant moneys.
- Performance assessment of grass maintenance contract on three Brisbane arterial roads.
- Managed a project for the South East Transit Authority to undertake community based landscape events along a proposed bus route. This resulted in the planting of over 3,000 trees in 4 locations.
- Shifted a 5 tonne fig from the path of the Busway for the South East Transit Authority.
- Prepared reports on the hazard rating of trees under powerlines for Moggill and Caboolture for Energex.
- Prepared a management plan for a 1.5ha bushland remnant at Slacks Creek for Logan City Council.
- Managed a team undertaking a revegetation plan, fauna study and landscape plan for Queensland Motorsports Willowbank Raceway
- Prepared landscape remediation plans for Willawong and Nudgee Transfer Stations and the Rochedale landfill for Pacific Waste Management.
- Developed a preferred species list for the Point Look Out Development Control Plan for Redlands Shire Council.

DEPARTMENT OF PRIMARY INDUSTRIES and CSIRO

- Research into a diet for aquaculture prawns based on locally sourced ingredients.