

## Curriculum Vitae for Peri Coleman

Peri Coleman owns, and is principal consultant for, Delta Environmental Consulting. She is a member of the South Australian Coast Protection Board and during her long-standing membership she has represented the Board on committees including the Adelaide Coastal Waters Study, the Estuary Policy Group and the Sea Level Rise Advisory Committee.



Peri has extensive experience in identifying marine and terrestrial flora and fauna of the mainland states and Tasmania, conducting biological surveys, and producing reports and educational materials. Her main interests include conducting biological surveys, taxonomic work, preparation of herbarium and museum vouchers, saltmarsh rehabilitation projects, scientific illustration and desktop publishing, solar salt field design, operations and biology, developing environmental education programs & environmental management plans, and undertaking wetland, mangrove and saltmarsh studies. Her experience in running her own consulting company has resulted in the development of significant time management, mediation and priority setting skills.

Peri has a strong commitment to research, with several recent papers accepted for international publication. She is a fellow of the Royal Society of South Australia and member-at-large for the International Society for Salt Lake Research.

## PROFESSIONAL DEVELOPMENT

### *Boards and committees:*

Board member - *Coast Protection Board of South Australia (CPB)*

Coast Protection Board representative, *Adelaide Coastal Waters Steering Group*

Chair of *Jeffries (Buckland Park Operations) Community Consultative Committee*

Member at Large, representing the *International Society for Salt Lake Research (2011-2017)*

Fellow of the *Royal Society of South Australia*

Member of the *International Society of Limnology*

Member of the *Lake Frome Technical Committee*

### *Previous committees:*

Councillor - *Marine Parks Council of SA (2009-2011)*

Chair of the *Adelaide Dolphin Sanctuary Advisory Board (2006-7)*

Coast Protection Board (CPB) representative, *Sea Level Rise Advisory Committee (2008-2014)*

CPB representative, *Adelaide Coastal Water Quality Improvement Plan Steering Committee (2008-2013)*

CPB representative, *Adelaide Coastal Waters Study Steering Committee (2004-7)*

Member of the *Barker Inlet Port Estuary Committee - BIPEC (from inauguration until 2007)*

BIPEC representative, *Port Waterways Water Quality Improvement Plan Steering Committee*

BIPEC representative, *NLW Audit Coastal Acid Sulfate Soils Steering Committee*

BIPEC representative, advisory group assisting development of the SA government's Adelaide Dolphin Sanctuary Act

Chair of the *Northern Adelaide & Barossa Waterwatch Steering Committee (2000-2006)*

### *Academic development:*

Master of Applied Science (Environmental Management and Restoration). Charles Sturt University  
Graduate Diploma in Environmental Management. Charles Sturt University.

Undergraduate studies included training in teaching at Claremont Teachers College, now Edith Cowan University, studies in biology at Murdoch University (Australian & SE Asian studies) and Leederville Technical College (botany and herbarium studies) and several units of communication at the Western Australian Institute of Technology, now Curtin University. Registered as a scientific illustrator with the Australian Biological Resource Survey (ABRS)

### Conferences, Workshops & Short Courses:

- Seminar Nasional Garam 2015. Asosiasi Industri Pengguna Garam Indonesia. Jakarta, Indonesia. 28 May 2015
- Coastal Saltmarsh Forum. University of South Australia, Mawson Lakes. 15-16 April 2015
- Restore America's Estuaries 7<sup>th</sup> National Summit on Coastal & Estuarine Restoration. National Harbor, Maryland, USA. November 2014
- 12<sup>th</sup> International Society for Salt Lake Research Conference. Grand Epoch City, China. July 2014
- UNSW Coastal Engineering short course. Adelaide. 31 March 2014
- Greenhouse 2013 - The Science of Climate Change. Scholarship recipient, Climate Change Awareness Programme. Adelaide. 8-11 Oct 2013.
- Workzone Traffic Management certification. Adelaide. Feb 2007, 2012
- 11<sup>th</sup> International Society for Salt Lake Research (ISSLR) Conference. Mar Chiquita, Argentina. 2011
- Coast to Coast: Australia's National Coastal Conference. 2010, 2004, 2002
- 10<sup>th</sup> International Society for Salt Lake Research (ISSLR) Conference. Salt Lake City, USA. 2008
- SOP WET Workshops: Recent Techniques in Protection, Creation and Rehabilitation of Coastal Saltmarshes, Sydney Olympic Park. 2-3 March 2006 and 3-4 June 2004
- 9<sup>th</sup> International Society for Salt Lake Research (ISSLR) Conference, Perth, Australia. 2005
- Society of Wetland Scientists: Australasian Saltmarshes 2005, Sydney. 10-11 February 2005
- 8<sup>th</sup> International Society for Salt Lake Research (ISSLR) Conference, Zhemchuzhny, Russia. 2002
- MFP Barker Inlet Wetlands Workshops, Adelaide. 1997, 1996
- Cleaner Production in the Workplace Seminar. Adelaide. 1995
- Environmental Audit Workshop, Adelaide. 1995
- 6<sup>th</sup> International Society for Salt Lake Research (ISSLR) Conference, Beijing. 1994
- Quality Systems Internal Auditor certification. Adelaide. 1994
- In Style & By Design: Principles of Desktop Publishing & Design. 1994
- 2<sup>nd</sup> Coastal Zone Management Workshop, Yeppoon. 1990
- 2<sup>nd</sup> Australasian & International Bee Congress, Gold Coast. 1988
- Australian Society for Phycology and Aquatic Biology Conference, Townsville. 1987
- Australian Marine Sciences Association Conventions. 1987, 1983

### AWARDS

KESAB Metropolitan Environment Award for Community Leadership, 2000.

Nominated as one of SA Conservation Council's Unsung Heroes, World Environment Day, 2000.

Family Business Australia. South Australian Family Business, First Generation Award, 2008.

### PUBLICATIONS

Timms BV, P Coleman and J Cooper (2014) "Seagull Lake, western Eyre Peninsula, South Australia: A saline lake to benefit from climate change?" *Transactions of the Royal Society of South Australia*, **138**(2): 161-180. DOI: 10.1080/03721426.2014.11649007

Coleman, P (2014) *Samphires of the Adelaide and Mount Lofty Ranges region*. Natural Resources: Adelaide and Mt Lofty Ranges. Adelaide.

Coleman, P (2014) "Seagull Lake, western Eyre Peninsula, South Australia: A saline lake to benefit from climate change? II. Hydrology and Plants." *Acta Geologica Sinica* (English Edition), **88**(supp. 1): 66-67

Coleman, PSJ and FS Cook (2010) *Shorebird management and conservation*, Adelaide and Mount Lofty Natural Resources Management Board, Adelaide.

Coleman, PSJ (2010) "Reedbeds, sedgeland and vernal pools" in Daniels, CB ed (2010) *Adelaide: water of a city*, Wakefield Press, Adelaide

Coleman, PSJ and FS Cook (2009) "Habitat preferences of the Australian endangered samphire *Tecticornia flabelliformis*" *Transactions of the Royal Society of South Australia* **133**(2): 300-306

Fotheringham, D and P Coleman (2008) "Salt marshes" in Shepherd SA, S Bryars, I Kirkegaard, P Harbison & JT Jennings (eds) *Natural History of Gulf St Vincent*. Royal Society of South Australia, Adelaide

Cook, FS and PSJ Coleman (2007) "Benthic Diatoms of the Salinas of the Dry Creek Saltfields" in *Hydrobiologia* **576**(1): 61-68

Coleman, PSJ and FS Cook (2003) *Waterwatch SA Estuarine Monitoring: Guidance Manual*. Delta Environmental Consulting, Adelaide. ISBN 0 9751066 0 0

*Republished as:*

Coleman, PSJ and FS Cook (2007) *Community Estuarine Monitoring Manual*. South Australian Environment Protection Authority, Adelaide. ISBN 1 921125 29 2

Coleman, PSJ, Cook FS and R Eden (2005) *Estuarine Living and Learning Manual*. Delta Environmental Consulting, Adelaide. ISBN 0 9751066 1 9

Coleman, PSJ and FS Coleman (2000) *Local Recovery Plan for the Yellowish Sedge-Skipper and Thatching Grass*. Delta Environmental Consulting, Adelaide. ISBN 0 646 39327 8

Coleman, PSJ (1998) "Investigations of the effects of manganese addition to Dry Creek Saltfield brines" in *International Journal of Salt Lake Research* **7**(1): 25-40

Coleman, PSJ (1998) "Changes in a Mangrove/Samphire Community at North Arm Creek, South Australia" in *Transactions of the Royal Society of South Australia* **122**(4): 173-178

*Contributor to:*

Walsh, K (2004) *Climate Change and Coastal Response*. Cooperative Research Centre for Coastal Zone, Estuary and Waterway Management, Indooroopilly, Australia.

Caton B, D Fotheringham, E Krahnert, J Pearson, M Royal & R Sandercock (2009) *Metropolitan Adelaide and Northern Coastal Action Plan*. Prepared for the Adelaide & Mount Lofty Ranges NRM Board and Department for Environment & Heritage. Adelaide.

## **PRESENTATIONS**

Coleman, P (2015) *Solar salt production: Principles and operations*. Presentation to Seminar Nasional Garam 2015, for the Asosiasi Industri Pengguna Garam Indonesia. 28 May 2015. Jakarta, Indonesia.

Coleman, P (2015) *Saltmarsh restoration: What have we learnt?* Presentation to the Coastal Saltmarsh Forum, University of South Australia, 15-16 April 2015, Mawson Lakes.

Coleman, P (2014) *Seagull Lake, western Eyre Peninsula, South Australia: A saline lake to benefit from climate change? II. Hydrology and Plants*, Presentation to the 12<sup>th</sup> ISSLR Conference, 14-18 July 2014, Grand Epoch City, China.

Coleman, PSJ (2008) *Alternative stable states - a tool for monitoring ecosystem condition in solar saltfields*. Poster presentation to the 10<sup>th</sup> ISSLR Conference, 11-16 May 2008, Salt Lake City, Utah.

Coleman, PSJ and FS Cook (2005) *Habitat preferences of *Halosarcia flabelliformis* (P.G. Wilson)*, a presentation to the 9<sup>th</sup> ISSLR Conference, 26-30 September 2005, Perth, Australia

Coleman PSJ (2005) *A Southern Saltmarsh*, a presentation to Australasian Saltmarshes 10-11 February 2005, Sydney

Coleman PSJ, Cook FS and RN Eden (2005) *Soil conditions in low, mid and high marsh in Gulf St Vincent salt marshes*, a presentation to Australasian Saltmarshes 10-11 February 2005, Sydney

Cook, FS and PSJ Coleman (2002) *Benthic Diatoms of the Salinas of the Dry Creek Saltfields*, a presentation to the 8<sup>th</sup> ISSLR Conference, 23-26 July 2002, Zhemchuzhny, Republic of Khakasia, Russia

## PROJECTS & EXPERIENCE

The projects below are arranged into the following categories: water quality; management plans; stormwater wetland design; environmental impact and feasibility studies; flora and fauna studies; coastal and saltmarsh revegetation; saltfield, salt-lake and evaporation pond technologies; site contamination; compliance programs and audits; and community education and training.

### *Water quality*

**Adelaide & Mt Lofty Ranges Natural Resource Management Board. Onkaparinga estuary: Monitoring summary.** Reports, each summarising twelve to eighteen months of regular water quality monitoring of this large estuary in the southern outer metropolitan area of Adelaide. July 2009, 2010, 2011-13, 2014, 2015, 2016. Ongoing.

**Adelaide & Mt Lofty Ranges Natural Resource Management Board. Diatom study: Onkaparinga estuary.** A report looking at the range and productivity of diatom periphytes in the Onkaparinga estuary, nine months, and then three and a half years, after the implementation of a trial to return environmental flows to the river system. November 2012, 2015.

**Port Adelaide Enfield Council. Mangrove Cove monitoring.** The implementation of a water quality and vegetation monitoring program for a small reserve in the upper reaches of the Port River estuary, adjacent to an urban renewal project. January 2008 – June 2014.

**Department for Transport, Energy and Infrastructure. Onkaparinga estuary: Water quality monitoring.** Quarterly reports. May, August, November 2010 and January 2011.

**Adelaide & Mt Lofty Ranges Natural Resource Management Board. Onkaparinga estuary: Review of existing monitoring programs.** A review of monitoring conducted to date in the estuarine reaches of this large South Australian estuary. The objective of the program was to assess gaps in current monitoring, allowing the development of an economical monitoring program that would be capable of assessing the success of environmental improvement actions. August 2007.

**TRUenergy. Torrens Island Power Station thermal plume monitoring.** Review and statistical analysis of existing monitoring program, design and execution of new program. Production of monitoring program procedures and a report of findings. March-May 2007.

**SA Water. Port Pirie WWTP monitoring program.** Design and conduct of a 3-year monitoring program designed to detect ecological changes in the estuaries of saltmarsh tidal creeks resulting from capital improvements to the Port Pirie WWTP. 2002 – 2007.

**City of Salisbury. Stormwater quality monitoring.** Conduct of a monitoring program using water quality analysis and microbiological studies to source pollutants entering the stormwater system in the Cavan area. 2001 – 2007.

**Mallee Catchment Management Authority. Etiwanda Wetland monitoring program.** Design of a monitoring program to assess the effectiveness of the stormwater treatment wetland built at Etiwanda Road in Mildura in Victoria's Mallee district. July 2006.

**Corporation of the City of Port Augusta. Bird Lake foam mitigation study.** Design and conduct of a one year monitoring program that provided the baseline data needed for the management of this hypersaline lake at the head of Spencer Gulf in South Australia. 1997.

**Pelican Creek Dam algal bloom, Central Queensland.** Control of cyanobacterial blooms in billabongs and farm dams. 1991-2.

## **Management and rehabilitation plans**

**Natural Resources, Adelaide and Mount Lofty Ranges and Australian Government, Samphire Coast Icon Project Biodiversity Fund. Progressing the Local Recovery Plan: Yellowish sedge-skinner butterfly and thatching grass.** A review of an existing recovery plan, including resurveying the distribution of the host plant, evaluation of the status of the butterfly and previous actions, and a prioritised action plan for future works. April 2015.

**Wakefield Regional Council. Port Wakefield Coastal Reserve.** A characterisation of the coastal reserve in the delta of the Wakefield River, with advice on management options. September 2012.

**Adelaide & Mount Lofty Ranges Natural Resource Management Board. Field River estuary: issues and advice.** A review of specific aspects of management plans for the lower reaches of the Field River, in a peri-urban catchment in South Australia. February 2012.

**Defence SA. Concept plan review: Biodiversity Park.** A review of the ecological sustainability and fauna and flora habitat aspects of a landscape concept plan for open space use on the Northern LeFevre Peninsula. October 2010.

**Coastal Management Branch. Revegetating Mutton Cove.** A coordinated vegetation plan that allows the efforts of several community groups to provide a consistent approach to revegetation efforts of this rehabilitated coastal wetland. Nov 2009.

**Tintinara Action Club. Lake Indawarra concept and vegetation Plan.** A plan to increase the aesthetic, biodiversity and recreational values of an artificial waterbody in the south east of South Australia. May 2009.

**Cheetham Salt Limited. Mining and rehabilitation program (MARP) for Dry Creek Saltfields.** Prepared as specified under Regulation 10 of the *Mines and Works Regulations 1998* and Section 56B of the *Mining Act 1971*. April 2009.

**Penrice Soda Products. Jaekeli Creek native maintenance and restoration Plan.** A plan to ensure the sustainability of the vegetation and function of a remnant creek line in a limestone mine in the Barossa Valley of South Australia. March 2009.

**Tintinara Action Club. Lake Indawarra site assessment.** Assessment of rehabilitation options for an artificial waterbody in the south east of South Australia. January 2009.

**Penrice Soda Products. Angaston Mine MARP 2008 rehabilitation plan.** Extension of a novel revegetation approach, originally developed by DJ Barrie, to blend the visual aspects of an unnatural landform into an existing landscape. Sept 2008.

**Eyre Natural Resource Management Group. Murray's Point Wetlands management plan.** A management plan for an anthropogenically altered coastal salina near Port Lincoln. Feb 2006.

**District Council of Mallala and Urban Forest Biodiversity Program. Thompson Beach – Third Creek management plan.** A management plan for an area of coastal reserves containing dune, saltmarsh and sabkha habitats that supported a range of significant species. December 2005.

**District Council of Mallala and Urban Forest Biodiversity Program. Thompson Beach – Third Creek on-ground works program.** Prioritised actions to maintain the biodiversity values of this reserve, along with standard operating procedures to ensure the works met specified outcomes. December 2005.

**Land Management Corporation. Mangrove Cove management plan.** A management plan for Mangrove Cove, a reserve within the inner harbour area of Port Adelaide. August 2005.

**District Council of Yorke Peninsula. Monitoring program – Coobowie estuary.** Development of a monitoring program to assess the success of restoring tidal exchange to the estuary of Salt Creek at Coobowie. June 2005.

**Project Dolphin Safe. Mutton Cove vegetation plan.** A vegetation plan that encourages coordination of the efforts of several community groups and ensures a consistent approach to revegetation efforts. 2004.

**Adelaide Airport Ltd. Patawalonga Creek action plan.** An Action Plan for a 3 year period outlining the tasks and priorities for managing and restoring this remnant of the original Patawalonga Creek. 2004.

**Coast Protection Board. Mutton Cove management plan.** A management plan for Mutton Cove, a small stranded salt marsh at the tip of the Le Fevre Peninsula in South Australia, which included determining a strategy for reinstating tidal flows in the Cove. 2003.

**Department of Environment and Heritage (Crown Lands Branch). Australian Radio Network antenna site environmental management plan.** Management planning for an area of salt marsh currently leased for radio operations, which contains a State scheduled species. 2003.

**Parafield Airport Limited. PAL vernal pools.** Assessing the health of vernal pools on airport land at Parafield, providing information on possible impacts on the pools, mitigation options and management planning to inform the airport's major development plan. 2002 – 2003.

**Adelaide Airport Ltd. *Maireana decalvans* management plan.** Management planning for a State scheduled species, to inform the Adelaide Airport's major development plan. 2002.

**Urban Forest Biodiversity Program. Local recovery plan for the Yellowish Sedge-skipper butterfly.** A habitat enhancement plan developed to identify and supplement areas of sedge growing in the Northern Adelaide Plains that are the larval host plant for this endangered skipper butterfly. 1999-2000.

### ***Stormwater wetland design and operations***

**City of Playford. Wetland management: Advice relating to Coventry and Curtis Roads wetlands. Second edition.** Additional advice on the management of sediment accumulation in the wetlands and salinity guidelines for irrigation. September 2014.

**City of Playford. Wetland management: Advice relating to Coventry and Curtis Roads wetlands.** Advice on the future management of the wetlands aimed at achieving water quality suitable for use in Aquifer Storage and Recovery. February 2014.

**Mallee Catchment Management Authority. Etiwanda Wetland monitoring program.** Design of a monitoring program to assess the effectiveness of the stormwater treatment wetland built at Etiwanda Road in Mildura in Victoria's Mallee district. July 2006.

**City of Salisbury. Saltwater wetlands.** Provision of information on the ecology and functioning of ephemeral and saltwater wetlands. 1996.

**MFP Australia Corporation. Barker Inlet Wetlands discussion paper.** Botanical and ecological input to inform the planning stages of the construction of these wetlands, which receive approximately 40% of Adelaide's stormwater runoff. 1995.

### ***Environmental impact, development applications, risk and feasibility studies***

**Adelaide Airport Limited. Parafield airport: Food Park and the vernal pools.** Identification of potential impacts of the proposed Food Park on the conservation values of the vernal pool precinct, and possible mitigation options. Current.

**Adelaide Airport Limited. Parafield airport: Potential locations for solar arrays.** The developers intend that the proposed Food Park be self-sufficient for power, using renewable sources of energy. This report used GIS to identify potential locations for solar arrays that will have the lowest impact on existing environmental values. Current.

**Adelaide Airport Limited. Parafield airport: Ecological baseline for the conservation area.** An updated comprehensive survey of the vernal pool conservation zone at Parafield Airport, preliminary to undertaking impact assessment for a proposed development (Foodpark). Vegetation changes in the past decade and a half were assessed, surveys of the invertebrate pool life and multiple bird count transects were undertaken. November 2016

**Natural Resources: Adelaide & Mount Lofty Ranges. Mutton Cove: Mutton Cove levee breach risk assessment.** Identification of the risks to biodiversity values of the reserve and adjacent waters of the Adelaide Dolphin Sanctuary of the continued degradation of the levee at Mutton Cove. January 2015.

**Adelaide & Mount Lofty Ranges NRM Board. Risk and opportunities: A briefing paper on coastal habitat and shorebird conservation in the light of potential closure of the Ridley Dry Creek salt fields.** Identification of the potential risks and possible opportunities for the government owners of Crown Lands underlying the mining leases of the Dry Creek saltfields, in the event of closure. June 2013.

**Windesal Limited. EPBC Referral: Salisbury Wind Powered Turbine and Desalination Plant.** Referral application relating to potential migratory bird usage of site for proposed wind/diesel powered stormwater to aquifer to reuse water recycling project in the Greenfields Wetlands at Salisbury, South Australia. July 2011.

**PT Cheetham Garam Indonesia. Environmental aspects: Proposed solar saltfield in Mbai, Flores Indonesia.** An initial assessment of the existing environment and identification of possible environmental aspects of developing a solar saltfield on the delta of the Ai Sissa in Flores. June 2011.

**Department for Transport, Energy and Infrastructure. Mitigation planning and monitoring program for vernal pools affected by the route of the Mawson Connector (Elder Smith Drive).** Development of mitigation plans, oversight of the mitigation activities, design and conduct of an ongoing monitoring program to determine mitigation success. Feb 2006-2011.

**Cheetham Salt Limited. Development application for ungrade to salt stockpile area.** The DA addressed the upgrade to the existing salt stockpile area for the Price (SA) Operations, including the management of associated drainage. May 2011.

**City of West Torrens. Cowandilla detention basin.** Existing environment report for an urban stormwater mitigation project. May 2010.

**Cheetham Salt Limited. Environmental issues paper - Dry Creek Saltfields expansion.** An initial assessment of the likely environmental aspects of expanding an existing saltfield. The study identified which issues were well understood and which issues may need to be further addressed in any environmental impact study. Sept 2009.

**Cheetham Salt Limited. Bitterns options paper - Dry Creek Saltfields expansion.** A paper examining worldwide best practice in the disposal of saltfield bitterns and the practical implications for the proposed expansion of an existing saltfield. Oct 2009.

**Perilya Pty Ltd. Flying Doctor Prospect EIS flora studies.** An assessment of the flora resources and potential impacts at the site of a proposed mine near Broken Hill in the Barrier Ranges of NSW. July 2008.

**McConnell Dowell Built Environs Joint Venture. Common User Facility - Biodiversity studies.** An assessment of specific aspects of the flora and fauna resources in the terrestrial and intertidal portions of the proposed CUF shiplift site and adjacent suppliers' precinct, and an assessment of the likely impacts of the development on those resources. September 2006.

**GHD. Osborne Maritime Precinct EPBC Act Response – vegetation, birdlife, whales.** An assessment of specific aspects of the flora and fauna resources in the intertidal portions of the proposed maritime precinct. March 2005.

**Eco Management Services. Ceduna Marina EIS biodiversity survey.** An assessment of specific aspects of the flora and fauna resources in the terrestrial and intertidal portions of the proposed Ceduna marina site, and an assessment of the likely impacts of the development on those resources. January 2005.

**Adelaide Airport Limited. Patawalonga Creek.** An assessment of the likely impacts, on the creek line and adjacent remnant vegetation, of increasing the flows of stormwater through this waterway. 2004.

**Bridgestone Australia. Salisbury.** An assessment of possible impacts of diverting plant waters to a stormwater detention basin present on the company's Salisbury site. 2004.

**Colliers International. Initial site review.** A review of a large number of sites in relation to their use by a government agency. The initial review examined vegetation issues as well as proximity to services, soil issues and flooding liabilities. 2004.

**Yorke Regional Development Board. Coobowie estuary.** A review of existing studies and a risk assessment of the options, for a community undertaking a restoration project to improve tidal flows to a stranded saltmarsh in the estuary. January 2004.

**Jeffries Soils. Buckland Park operations.** Proposed Buckland Park Composting Site – Potential for leachates to affect aquatic ecosystems. A specialist study forming part of the Public Environment Report to Planning SA. November 2002.

**Penrice Soda Products Pty Ltd and the Land Management Corporation. Gillman site preliminary environmental study.** A preliminary environmental study on a ninety-hectare block of undeveloped land in the Gillman area. 1999.

**Orlando Wyndham. Richmond Grove wetland.** A pre-feasibility study of using a constructed wetland to treat the stormwater effluents from a Barossa Valley winery. 1998.

**Celltech PL.** Feasibility study for a Queensland company interested in growing *Dunaliella salina* for extraction of high value chemicals. 1993.

**Ningaloo Marine Park submission.** A jointly-prepared submission (with MU Coleman) to the Western Australian CALM Department on the proposed Ningaloo Marine Park. 1983.

#### **Flora and fauna studies**

**Natural Resources, Adelaide and Mount Lofty Ranges and Australian Government, Samphire Coast Icon Project Biodiversity Fund. Thornbills, samphires and saltmarsh tipping points.** A report on an investigation into sea level rise mediated changes to the saltmarsh habitat of the vulnerable samphire thornbill, in Gulf St Vincent and elsewhere. May 2017.

**Adelaide Airport Limited. Bird Strike Risk Reduction: Mapping of airside vegetation and soils.** A survey of the weed distribution within, and invertebrate usage of, the turfs at Adelaide Airport, to assess risk of attracting birds that could pose bird strike risk at Adelaide's major airport. February 2017.



**Adelaide Airport. Patawalonga Creek vegetation transects 2016.** GIS analysis of the changes in vegetation distribution and cover along transect lines in revegetated and remnant portions of the conservation zone at Patawalonga Creek. January 2017.

**Adelaide Airport Limited. Parafield airport: Ecological baseline for the conservation area.** An updated comprehensive survey of the vernal pool conservation zone at Parafield Airport, preliminary to undertaking impact assessment for a proposed development (Foodpark). Vegetation changes in the past decade and a half were assessed, surveys of the invertebrate pool life and multiple bird count transects were undertaken. November 2016.

**Adelaide Airport. 2016 *Melaleuca* extents.** GIS analysis of the canopy area of *Melaleuca halmaturorum* along revegetated and remnant portions of the conservation zone at Patawalonga Creek. June 2016.

**Natural Resources: Adelaide & Mount Lofty Ranges. *Gahnia filum*: Insect use of thatching grass.** A study that evaluated the abundance and diversity of insects found associated with *Gahnia filum* over Spring and Summer, identifying those that pose a threat to horticulture and also identifying natural enemies that may target pest insects of concern to producers in the Northern Adelaide Plains. April 2016.

**Natural Resources: Adelaide & Mount Lofty Ranges. Mangrove planting: An Australian literature review.** A literature review of mangrove planting projects in Southern Australia, including the major causes of mangrove erosion (the wave climate and loss of offshore habitat that supports sediment accretion in the nearshore environment). As well as examining the actual horticultural approaches used to regrow mangroves, the review noted the importance of site morphology and hydrology, and ways of altering site conditions to meet the needs of *Avicennia marina* so that appropriate nearshore conditions will support natural recruitment. August 2015.

**EcoProTem. Macroinvertebrate studies and water testing.** Sampling and identification of aquatic macroinvertebrates and water quality analysis in Jacobs Creek. June-July 2015.

**Renewal SA. Purling Avenue poisonous plants.** A rapid survey of land being used for sheep grazing to determine whether plants occurring on the site may have deleterious effects on the health of grazing animals. December 2014.

**EcoProTem. Flora voucher identifications and soil testing.** Identification of vouchered specimens and soil analysis on samples collected by the client as part of the farm and landscape management planning process for lands held by indigenous land managers at Millers Farm (Dibharra), Gynburra, Woma and Sugar Shack. 2013-14.

**Renewal SA. MEC9: Rapid bioassessment survey.** A rapid bioassessment of surplus government land on the Northern LeFevre Peninsula, undertaken in order to inform disposal/development planning. Dec 2012.

**Adelaide & Mount Lofty Ranges NRM Board. *Tecticornia flabelliformis* of eastern Gulf St Vincent, South Australia: Occurrence, threats, management options.** A compilation of existing and new mapping of the geographical distribution and population density of a vulnerable samphire species along the eastern coastline of Gulf St Vincent. Identification of threatening processes and management recommendations. September 2012.

**EBS Ecology and Adelaide & Mount Lofty Ranges NRM Board. River Light Delta: flora surveys and management planning.** Conducted flora surveys and assisted with the GIS vegetation mapping of the habitats of the delta, as part of a joint project with EBS Ecology to produce a management plan for this near-pristine temperate saltmarsh and mangrove delta north of Adelaide. June 2012.

**Friends of Streaky Bay Parks. Seagull Lake saltmarsh: mapping chenopod associations.** A survey of the palustrine habitats of Seagull Lake, Eyre Peninsula South Australia. The survey also incorporated an aquatic invertebrate survey of the marine spring that supplies the lake. June 2012.

**Adelaide Airport Limited. Significant tree survey and rapid bioassessment survey, proposed golf school.** A survey of the identity and size of trees that may be affected by a proposed future development and an assessment of any remnant vegetation on the site. September 2011.

**Adelaide Airport Limited. Significant tree survey, proposed multistorey car park.** Survey of the identity and size of trees that may be affected by a proposed future development. Aug 2011.

**Land Management Corporation. Fort Largs Police Academy: Rapid bioassessment survey.** Undertook a rapid bioassessment process of surplus government land on the Northern LeFevre Peninsula, in order to inform disposal planning. June 2011.

**Adelaide Airport Limited. Rapid bioassessment of Airport East precinct.** Undertook a rapid bioassessment process of undeveloped and developed sites within the Airport East Precinct. Information from the survey was used in planning future land use opportunities. Jan 2011.

**Adelaide & Mount Lofty Ranges NRM Board. Mangrove (*Avicennia marina*) survey: Onkaparinga River estuary.** Mapping the extent of an incursion of mangroves into an estuary that did not historically support the species. June 2010.

**Adelaide & Mount Lofty Ranges NRM Board. *Tecticornia flabelliformis* – Survey from Middle Beach to Port Prime.** Mapping the geographical distribution and population density of a vulnerable samphire species within a specific area of the coastline of Gulf St Vincent. Geographic information system layers were produced for future management requirements. April 2010.

**Adelaide Airport. Significant tree survey.** A survey of the identity and size of trees that may be affected by a proposed future development. Nov 2009.

**Adelaide & Mount Lofty Ranges NRM Board. Shorebird conservation & management.** A study mapping and assessing areas of significant shorebird usage in the northern section of the NRM region. The study also identified existing and possible future threats to shorebird usage of the study area. July 2009.

**Urban Biodiversity Unit (AMLRNRM Board). *Tecticornia flabelliformis* – Survey from Middle Beach to Port Gawler.** Mapping the geographical distribution and population density of a vulnerable samphire species within a specific area of the coastline of Gulf St Vincent. Geographic information system layers were produced for future management requirements. March 2009.

**Adelaide Airport. Monitoring Patawalonga Creek revegetation.** Surveys of the canopy area of *Melaleuca halmaturorum* and transects across revegetated and remnant portions of the conservation zone at Patawalonga Creek. Nov 2008, Dec 2009.

**Coastal Management Branch (DEH). Metropolitan Adelaide coastal conservation assessment – data review.** Desktop flora record compilation for an area stretching from LeFevre Peninsula to Middle Spit (N of Port Parham) supported by field flora surveys of three coastal areas (Port Adelaide, Port Prime and Light River delta) to inform an agency conservation review. September 2008.

**Adelaide & Mt Lofty Ranges Natural Resource Management Board. Palmer property vegetation survey.** A survey to develop habitat mapping to inform management planning for a property containing lignum swamp, riverine gums, samphire and sedgeland. June 2008.

**Eyre NRM & Arno Bay Progress Association. Vegetation survey of the Arno Bay saltmarshes.** Survey to develop habitat mapping for an Eyre Peninsula estuary and sabkha complex that supports the vulnerable samphire, *Tecticornia flabelliformis*. May 2008.

**Integrated Waste Services. DTEI vegetation survey 2007/066.** Conduct of a roadside vegetation survey and assessment prior to the extension of an acceleration lane on Port Wakefield Road (National Highway One). December 2007.

**Adelaide Airport Ltd. Significant tree survey, Airport Hotel site.** A survey of urban significant trees growing in an area being redeveloped as airport accommodation. July 2007.

**Port Adelaide Maritime Corporation. Rapid bioassessment for northern LeFevre Peninsula master planning.** Undertook a rapid bioassessment process of undeveloped sites on the Northern LeFevre Peninsula. Information from the survey was used in community consultation regarding future land use opportunities. April 2007.

**Adelaide Airport. Significant tree survey, Morley St and Richmond Road.** A survey of the identity and size of trees that may be affected by a proposed future development. May 2006.

**Adelaide Airport. DTEI Significant tree survey, Sir Donald Bradman Drive.** A survey of the identity and size of trees that may be affected by the development of a signalised intersection. May 2006.

**Yorke Regional Development Board. Small nut head survey – Coobowie estuary.** The estuary of Salt Creek at Coobowie, long stranded by road embankments, has been reopened to tidal inundation. This survey was to determine whether there was a population of small nut-heads in the area to be affected by tide water, and if so, whether they would be impacted negatively. February 2006.

**Land Management Corporation. North Haven dunes encroachments.** A vegetation assessment of gardens encroaching into public land at North Haven. June 2005.

**City of Salisbury, Stygofauna survey.** A survey to assess whether stygofauna occurred in 5 wells in an anaerobic confined Tertiary aquifer being developed by the City of Salisbury as part of an aquifer storage and recovery scheme for the Northern Adelaide Plains. April 2005.

**Adelaide Airport Limited. Rapid biodiversity assessment - Three future development sites.** A biodiversity survey of three areas proposed for future development. Both vegetation and fauna were assessed. March 2005.

**Parafield Airport Limited. Bird attracting weed survey.** A survey of the weeds likely to attract birds at a light aircraft airport in the northern suburbs of Adelaide. 2004.

**Adelaide Airport Limited. Rapid biodiversity assessment - Old Bureau of Meteorology site.** A biodiversity survey of an area previously used by the Bureau of Meteorology as a weather station. Both vegetation and fauna were assessed. 2004.

**Land Management Corporation. Rapid flora and tree Assessment, Snowden's Beach and Davis St.** To assist in planning appropriate land uses for State owned freehold lands the LMC required information on the flora, significant trees and history of two parcels of land at Snowden's Beach and Davis Street. 2004.

**Eco Management Services. Flora survey - Allotment 6, Arno Bay.** Survey of an area of salt marsh and coastal dunes occurring on the Eyre Peninsula, as part of the background studies required for a development application. 2004.

**Northern Adelaide and Barossa Catchment Water Management Board. Thompson Creek vegetation assessment.** An assessment of the riparian vegetation of Thompson Creek, on the Northern Adelaide Plains and provision of information regarding the floristics and vegetation associations in a GIS-compatible format. 2003.

**Land Management Corporation. Flora survey and site history at Seaford Meadows.** An assessment of the flora and history of a parcel of land at Seaford Meadows. 2003.

**Connor Holmes Pty Ltd. Landscape assessment and recommendations for Rustler's Gully, Port Lincoln.** Development of a set of planting recommendations for this Eyre Peninsula land division. 2003.

**City of Salisbury. Flora survey of the Dry Creek explosives magazines.** A flora survey of a parcel of coastal wetlands land at Dry Creek. 2003.

**Land Management Corporation. Flora survey and site history at North Haven.** A survey of the flora and history of a parcel of coastal land at North Haven. 2003.

**Connor Holmes Pty Ltd. Significant tree survey at Golden Grove.** Determination of the numbers and locations of significant trees on a site and the development of GIS mapping. 2003.

**Connor Holmes Pty Ltd. Rapid flora assessment at Golden Grove.** A rapid assessment of a site, to determine whether it supported native vegetation of conservation significance. 2002.

**GHD/Flinders Ports. Ecological survey at Outer Harbor.** An ecological survey of a parcel of coastal land at Outer Harbor. The survey examined and collected the site's vegetation, as well as reviewing public fauna records and site history. 2002.

**Connor Holmes Pty Ltd. Ecological survey at Taperoo.** A survey of the site's vegetation and fauna. 2002.

**City of Port Adelaide-Enfield. Barker Inlet Wetlands herbaria.** Collection and curation of a set of herbaria for use by the managers of the Barker Inlet Wetlands. 2002.

**City of Salisbury. Bennett Road vernal pools study.** An ecological study of a series of vernal pools. The study included physical surveys of the site, a site history and detailed the hydrogeomorphology of the pools. 2002.

**City of Salisbury. Connector Wetlands aquatic invertebrate study.** A series of surveys of invertebrate life-forms in the newly constructed Connector Wetlands, north of Adelaide. 1996-1999.

**Orlando Wyndham. Biorecognition macroinvertebrate study of the North Para.** A rapid bioassessment of the macroinvertebrates of the North Para riverine environment at Rowland Flat and Richmond Grove conducted for the Orlando Wyndham group of wineries. 1997 and 1999.

**MFP Australia Corporation. Terrestrial plant monitoring.** A nine-month monitoring program to assess the success of tube stock planting and direct seeding of the Barker Inlet Wetlands. 1997.

**"Useful Flora of the Dampier Region."** Report detailing marine and terrestrial plants common in the Pilbara area of WA. Both traditional and modern uses were investigated. 1981.

**Dampier Salt.** Preparation of herbarium specimens for Dampier Salt's collection (part of the Department of Conservation's requirements for Dampier's Environmental Impact Study of its Western Leases). The company's collection was later incorporated into the Pilbara Regional Herbarium (KARR) then, after 2006, into the Western Australian Herbarium (PERTH). 1980-81.

**Honey Bee Apiaries.** Assessment of potential new floral resources during a period when traditional honey 'flows' were limited. 1979-80.

**Cockburn Sound Environmental Study ("Study for Sound Management").** Part of a taxonomic team working on the remnant sandplain heaths bordering the Sound's littoral zone. The botany was sampled and recorded to become part of the baseline data used in the management of the region. 1978.

### ***Coastal and salt marsh revegetation and restoration***

**City of Salisbury. Bennett Road drain soils & soilwater report.** A field and laboratory study to determine why plantings at Bennett Road drain were failing and to provide immediate and long-term management advice. November 2011.

**Urban Biodiversity Unit (Department for Environment and Heritage). Little Para estuary saltmarsh retreat zone.** Development of a digital elevation model that assessed the tidal exceedance probabilities and vegetation changes in a stranded saltmarsh recently reopened to tidal inundation. The model included assessments of a range of sea-level rise scenarios. July 2008.

**Cheetham Salt Limited. Samphire regrowth at Price Saltfields.** A review of restoration success in areas of saltmarsh that had been impacted by solar salt operations. June 2006.

**Coastal plant nursery, St Kilda.** Annual production of coastal and salt marsh plants for use in the consulting business' projects, providing difficult-to-source plants for clients, and for community projects in the Adelaide Plains coastal zone. Seed collection was also undertaken for a range of salt marsh and dune species. 2000-2006.

**Jeffries Soils. Amenity planting report – Jeffries Buckland Park site.** A report examining the planting implications of using a manufactured fill ('calsilt') to create planting mounds around Jeffries' composting facility at Buckland Park in South Australia. January 2005.

**Land Management Corporation. Snowden's Beach mound.** Revegetation of a mound at Snowden's Beach as part of a program of site remediation at a brownfields site. 2004 & 2005.

**Saline revegetation, Bajool.** A revegetation project in a Queensland coastal sabkha area, which used a poly-wicking technique developed for saline soils by the University of CQ and Greening Australia. 1992.

### ***Saltfield, salt lake and evaporation pond technologies***

**Dominion Salt Limited. Lake Grassmere operations: Biological status and production constraints.** A review of the stability of the biological components of this New Zealand saltfield and a summary of any existing production constraints along with suggestions to mitigate these. March 2016.

**Cheetham Salt Limited. Wakool operations: Historic production modelling.** Modelling the historic (2004-2013) potential yields from a saline groundwater detention basin system in the Murrumbidgee Irrigation Area. Sept 2013.

**Cheetham Salt Limited. Wakool operations: 2013 production modelling.** A modelling exercise to determine the sustainable yield possible from a saline groundwater detention basin system in the Murrumbidgee Irrigation Area. July 2013.

**Cheetham Salt Limited. Bajool and Port Alma operations – 2012 Biostatus and production constraints.** A review of the stability of the biological components of two Queensland saltfields and a summary of progress made over the preceding three years towards mitigating production constraints. Dec 2012.

**PT Cheetham Garam Indonesia. Proposed saltfield at Mbai, Flores, Indonesia: Climate characterisation & production capacity.** Desk study of climatological factors and saltfield design as part of a feasibility study of a proposed saltfield on the Indonesian island of Flores. April 2011.

**Cheetham Salt Limited. Discussion paper: Port Alma bores.** Reviewed the ratio imbalance at Port Alma saltfield and considered options to improve the production capacity and overall resiliency of the saltfield. Oct 2010.

**Cheetham Salt Limited. Bajool and Port Alma operations - Biological status and production constraints.** A review of the stability of the biological components of two Queensland saltfields and a summary of any existing production constraints along with suggestions to mitigate these. Feb 2010.

**Cheetham Salt Limited. Seawater supply - Dry Creek Saltfields expansion.** Survey and resulting estimation of seawater supply constraints for the proposed expansion of an existing saltfield. Oct 2009

**Fabtech. Prefeasibility discussion paper on poly-tunnel evaporators.** A discussion paper examining the evaporation potential of conventional solar evaporators and augmented systems for tailing water control at ERA's Ranger Uranium Mine in the Northern Territory. April 2009.

**Cheetham Salt Limited. Magnesium brine ponds - modelling operational aspects.** Modelling the evaporative process for brines saturated with magnesium salts, in order to construct a solar production facility. October 2007.

**Tonkin Consulting. Modelling solar evaporation ponds.** Modelling area requirements of different brine input volumes to produce varying salinity output brines as part of research in methods for intercepting dryland salinity in the Murray-Darling Basin. September 2007.

**URS Consulting. Moomba infiltration ponds.** Report on the physical, biological and chemical aspects of soils in an area being considered for a mine wastewater infiltration pond. January 2006.

**Cheetham Salt Limited. Seasonal biological status report – Dry Creek Saltfields.** As part of an extended monitoring program the consultants provided a springtime status review of the biology of the saltfields. November 2005, 2006, 2007.

**Cheetham Salt Limited. Harvest analysis – Dry Creek Saltfields.** An annual analysis of the efficiency of the salt production over the preceding year at a South Australian solar salt operation. July 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012.

**Cheetham Salt Limited. Initial biological status report – Dry Creek Saltfields.** An initial review of the biology of the Dry Creek saltfields, in relation to the efficient production of salt, on the purchase of this South Australian saltfield by Cheetham Salt. July 2005.

**Cheetham Salt Limited. Price and Kevin saltfields.** A review of all publicly available information relating to biodiversity aspects in the vicinity of two South Australian saltfields. 2004.

**SANTOS. Meerinie saline evaporation ponds.** Modelling the evaporation potential of waste brines from a Northern Territory oil mine, and designing an evaporation pond system to manage these wastes. 2003.

**Penrice Soda Products Pty Ltd. Dry Creek Saltfields.** Provision of technical and administrative consultancy services to South Australia's largest saltfield. Reinstatement of biological control over the field's environment and optimisation of production were the primary focus of this long-term consultancy. 1993-2002.

**Leftsea/ICI.** Provision of taxonomic and biological support and training on-site staff in biological sampling techniques for companies operating a pilot plant to grow the microalga *Dunaliella salina* using novel technology at Yarwun in Central Queensland. 1995.

**ICI/Cheetham Salt, Bajool.** Assisted MU Coleman with fieldwork on the impacts of cyanobacterial blooms (*Synechococcus elebans*) in two Queensland solar saltfields. Assisted with the production of papers presented internally and at external conventions. 1985-93.

**Wesfarmers Algal Biotechnology, Hutt Lagoon.** Assisted researchers at Dr Lesley Borowitzka's Hutt Lagoon Pilot Plant in Western Australia, where the flagellate alga *Dunaliella salina* was being investigated as a source of beta-carotene. 1984-5.

## **Site contamination**

**Waldhuter. Lot 113 Mattschoss Road, Daveyston: Site history and risk assessment.** A preliminary site assessment to determine the likelihood of site contamination on a site being proposed for residential development. August 2013.

**Schubert. Lot 112 Mattschoss Road, Daveyston: Site history and risk assessment.** A preliminary site assessment to determine the likelihood of site contamination on a site being proposed for residential development. May 2013.

**Phelan. Evaluation of proposed sediment and pollution control measures for Phelan's Lake.** A modelling exercise using MUSIC to evaluate the impact of a housing development on an existing lake system. July 2008.

**Geo-Processors. Port Augusta pilot plant site cleanup audit.** A post-closure site audit of an evaporative magnesium hydroxide pilot plant. Audit included review of site cleanup, rehabilitation and soil screening. 2004.

**Australian Southern Railways. Oil in soil investigations.** Using novel technology developed for field use as an aid in detecting hydrocarbon contamination in soils. 2002.

**Orlando Wyndham. Groundwater studies - Richmond Grove winery.** Investigations into bacterial and nutrient contamination of groundwater in the vicinity of the North Para River at the Richmond Grove Winery. 2001 and 2002.

**Wiseman's Creek goldmining area. Remedial action plan for *The Phoenix* and *Mabel* mines.** Identification and isolation of AMD (acid mine drainage) waste materials, development of options to treat tailings from the abandoned cyanide plant, divert clean surface waters, treat any generated AMD and control site erosion. 2000.

**Wiseman's Creek goldmining area. Preliminary site investigation.** Investigations into soil contamination and acid mine drainage occurring at and around *The Phoenix* and *Mabel* gold mines, NSW. 2000.

**Penrice Soda Products Pty Ltd. Mercury audit and site investigation.** An audit of mercury handling procedures at an industrial site in Northern Adelaide. Site investigations were included in the study. 2000.

**Charles Sturt University. Preliminary site investigation report - Bathurst Agricultural Research Station.** Identification of lead and arsenic contamination on land used as a research orchard. 1998.

**MFP Australia Corporation. Gillman site remediation.** Supply of botanical expertise to Adelaide's MFP during the development of their Magazine and Range Wetlands projects. 1995.

## **Compliance programs and audits**

**Cheetham Salt Limited. Dry Creek Saltfields – Verification audit of monitoring program.** Annual audits of the saltfield's monitoring program for its bitterns discharge. August 2006, 2007, 2008, 2010, 2011, 2012.

**Religious Society of Friends (Quakers). Carbon footprint audit for North Adelaide Meeting House.** The development of a 'carbon footprint' that measured the operational emissions and 'embodied' emissions of an historic Meeting House. October 2007.

**Cheetham Salt Limited. Peters Peak flume replacement environmental monitoring.** A dredging impact monitoring program conducted to meet licence obligations under Cheetham's environmental authorisation, during the construction of new saltfield infrastructure across Dry Creek. June-August 2007.

**Penrice Soda Products. Dry Creek Saltfields - Audit of bore records.** An audit of the Dry Creek Saltfield's bore water usage records. February 2005.

**Environment Protection Authority of SA. Dry Creek Magazines - Report to the EPA.** The use of geographic information systems and remote sensing to assess impacts of an activity on an area of remnant salt marsh. 2004.

**Penrice Soda Products. Dry Creek Saltfields - Audit of monitoring program.** Annual audits of Dry Creek Saltfields' compliance with the monitoring component of its environmental authorisation. Audit findings and recommendations were reported to the company for forwarding to the EPA. 2003 & 2004.

**Penrice Soda Products. Angaston Mine, Audit of monitoring program.** Auditing the mine's compliance with monitoring components of its environmental authorisation. Audit findings and recommendations were reported to the company for forwarding to the EPA. 1998 & 2001.

**CSR Oberon MDF Plant. Materials handling action plan.** Development of procedures to guide the handling of resins, oils, fuels, methylene blue dyes, process chemicals, paints, woodchip and fibre in the expanded medium density fibreboard plant. 1999.

**CSR Oberon MDF Plant. Preliminary audit report.** Review of materials handling in the expanded medium density fibreboard operations. 1999.

**Penrice Soda Products. Angaston Mine monitoring program.** Preparation of a monitoring program and instructional procedures to be included in the mine's operating manual. 1998.

### ***Community education and training***

**Natural Resources: Northern and Yorke Peninsula. Samphire identification workshops.** Training for the natural resource management agency staff and community members in the recognition of regional samphire species. Three workshops. Current.

**Aldinga Washpool and Silver Sands Heritage Group. Ephemeral invertebrates of the Washpool.** A community forum. Current.

**DEWNR: Adelaide International Bird Sanctuary. Adelaide Shorebird Festival: Mud Critters Tent.** Education and activities around shorebird feeding resources. October 2015 & 2016.

**DEWNR: Adelaide International Bird Sanctuary.** East Asian Australasian Flyway Nomination supporting documentation. Provision of background information of the geomorphology, hydrology, climate and biological resources of the important shorebird area of the northern Gulf St Vincent, including the Adelaide International Bird Sanctuary. June 2016.

**Natural Resources: Adelaide and Mount Lofty Ranges. Samphire identification workshops.** Training for the natural resource management agency staff in the recognition of regional samphire species. Five workshops. March 2014, May 2016.

**Natural Resources: Adelaide and Mount Lofty Ranges. "Samphires of the Adelaide and Mount Lofty ranges region".** Thirty-four page booklet, illustrated with line drawings and photographs, characterising the nine local species of samphires (glassworts). July 2014.

**City of Playford. Wetland interpretative signage.** Development of interpretive signage for constructed stormwater treatment wetlands in the City of Playford. Topics included biodiversity and food webs of wetlands, identifying local catchments, water sensitive urban design, and the layout of each wetland. June 2014.

**Friends of Streaky Bay Parks. Samphire identification workshop.** Training for the general public, Eyre Peninsula land managers and agency staff in the recognition of regional samphire species. 2012.



**Adelaide Airport Limited. Parafield Vernal Pools website.** Development of a website to assist in the coordination of the monitoring program and research projects at a series of ephemeral wetlands (vernal pools) located on the Parafield Airport in South Australia. Parties involved in the ongoing project include AAL, the University of SA, Heritage Bushcare and private researchers. June 2012.

**Middle Beach Education and Recreation Centre. “Estuarine Living and Learning Manual”.** Development of a series of booklets to be used to train volunteer guides and facilitators at the Samphire Discovery Trail and Middle Beach Education and Recreation Centre. January 2005.

**Department for Environment and Heritage. Mutton Cove interpretive signage.** Development of interpretive signage for Mutton Cove, a small stranded salt marsh at the tip of the LeFevre Peninsula in South Australia. 2004.

**Waterwatch SA. Estuarine biodiversity posters.** Design and illustration of a series of posters to be used by Waterwatch groups undertaking estuarine monitoring. 2004.

**Environment Protection Authority of SA. “Waterwatch SA Estuarine Monitoring Guidelines”.** Developing an educational framework and publishing a book of monitoring guidelines for community groups monitoring South Australian estuaries, 2003. Republished as *Community Estuarine Monitoring Manual* in 2007 by the South Australian Environment Protection Authority.

**DENR/Outreach Education.** Provision of review services for “*Estuarine and Marine Habitats of South Australia*” a teachers’ resource kit developed by Departmental staff (Sally Fieldhouse) for use in South Australian primary and junior secondary schools. 1996.

**Penrice Soda Products.** Provision of photographs of mangrove and saltfield environments for inclusion in the company’s corporate booklet, used to provide information for overseas customers. 1996.

**“A Student’s Guide to Marine Salt” by P Coward.** Provision of photographs and text to illustrate Peter Coward’s workbook on evaporative chemical processes for University Entrance level students in South Australia. 1996.

**City of Salisbury. “St Kilda Mangrove Boardwalk Self-Guiding Visitor Map”** Production of the text for a booklet aimed at raising positive awareness of the unique environment of the mangroves, for visitors to the City of Salisbury’s Mangrove Interpretive Trail. 1996.

**City of Salisbury. St Kilda Mangrove Boardwalk.** Provision of technical validation of the interpretive material used in the displays as well as supporting the development of the live displays. 1995.

**Department of Education Science and Training. Aboriginal Tutorial Assistance Scheme (ATAS).** Provision of individual and group tutoring for Aboriginal students in Central Queensland, concentrating on mathematics skills, logic and problem solving. 1987-93.

**Taxonomist, Woodbridge Marine Studies Centre.** Collection, preparation and identification of specimens for the Centre’s museum, development of units of study to be used by the teachers and some teaching and public relations work, both at the Centre and on its research vessel, RV Penghana. 1982-84.

**Mt Leseur Wildflowers.** A photographic display of sandplain flora developed for the Australian Conservation Foundation’s Mt Leseur public awareness campaign. 1980-83.