

2017-18



NATURE CONSERVATION SOCIETY OF SOUTH AUSTRALIA

ANNUAL REPORT

ACHIEVEMENTS THIS YEAR:

- Continued advocacy for protection of our state's biodiversity, with a focus over the past year on management of protected areas, planning and policy.
- Hosting the annual meeting of the National Parks Australia Council in November 2017, an
 opportunity to discuss our policy platform of Nature for Life.
- As part of the South Australian Nature Alliance, lobbying in the lead up to the March 2018 state election for better protection of nature.
- Ongoing collaboration in significant biodiversity monitoring projects including Mt Lofty Ranges Woodland Birds celebrating 20 years and repeat monitoring of over 50 of the oldest BCM sites in Nortern and Yorke region.
- Donating funds to BioR for the creation of woodland bird habitat.
- Continued support for conservation-based research through our Conservation Biology Grant.
- Conducted successful nocturnal walks in the Adelaide Parklands as History Festival events.

ABOUT THE NATURE CONSERVATION SOCIETY OF SOUTH AUSTRALIA

The Nature Conservation Society of South Australia is a not-for profit voluntary conservation organisation working to promote and protect South Australia's wildlife and natural habitats.

The NCSSA has a history of over 50 years as a leader in advocacy for the environment and is a respected source of scientific information and informed comment on the biodiversity of South Australia.

One of the primary objectives of the NCSSA is to "foster the conservation of the State's wildlife and natural habitats", and the Society has taken action on many varied environmental issues since its formation in 1962.

- Our activities include:
- promoting, protecting and managing native habitats
- researching and protecting threatened species and their habitats
- advancing the protection, management and strategic expansion of the state's reserve system, and
- educating the community and all tiers of government about environmental matters





MLR Bird Survey debrief meeting: Jody Gates, Chris James, Bea Rogers, Ali Ben Kahn Photo: NCSSA

NCSSA PEOPLE

MANAGEMENT COMMITTEE

President: Michael Stead
Vice-President: vacant
Secretary: Erinne Stirling
Assistant Secretary: vacant
Treasurer: Anna-Lucia Draper

General Committee:

Janine Guy, Kelly Henderson, Robert Lawrence and Helen Vonow

STAFF

Administrative Manager: Amanda Stewart **Conservation Programs Manager:** Jeff Foulkes

Nature Advocate: Julia Peacock Conservation Ecologist: Nicki de Preu

Threatened Plant Action Group Program Coordinator: Tim Jury Bushland Condition Monitoring Project Officer: Peter Mahoney

Woodland Bird Survey Coordinator: Ali Ben Kahn Database & Website Project Officer: Lesley Parton

Other project staff: Robert Bates, Tom Bradley, Chris Butcher, Sonia Croft, Tim Croft, Tim Milne, Penny Paton, Tim Reynolds and Sarah Telfer.

MLR Woodland Bird volunteer surveyors: Ali Ben Kahn, Stuart Collard, Sonia Croft, Peter Day, Jody Gates, Grace Hodder, Thomas Hunt, Chris James, David Paton, Penny Paton, James Plummer, Beatrice Rogers and Rebecca Zanker.

REGULAR VOLUNTEERS

Keith Lloyd (General office support and library), Brian Knill (BCM database), Ben Heyward (BCM manual review) and many others who generously contributed their time throughout the year to various conservation projects and activities.

FUNDING 2017-18

NCSSA activities are funded by membership subscriptions, donations, bequests, book sales, investment interest, government grants and external funding agencies that fund many of our conservation projects.

Funding bodies for the 2017-18 financial year included: Bird Life Australia; City of Adelaide; City of Onkaparinga; Department for Environment and Water (including NRM Regions of: Adelaide & Mount Lofty Ranges, Eyre Peninsula, Northern & Yorke, and the State NRM Community Grants); SA Water; and The University of Adelaide.

PRESIDENTS REPORT

Hello and welcome to our 2017-18 Annual Report.

It has been another proud year for our Society.

This year we celebrate 20 years of the Mount Lofty Ranges Woodland Bird Survey. To mark the occasion, we donated \$3,000 to BioR for the purposes of woodland bird habitat creation.

Another highlight was our hosting of the three-day National Park Australia Council meeting late last year, which received universal praise.

The recruitment of Julia Peacock as our Nature Advocate has also been very beneficial. Nicki De Preu has also continued her involvement with her role. Effectively we have two Nature Advocates for the price of one.

The financial and political conditions imposed in preceding years are manifesting themselves more keenly and the South Australian environmental sector is facing significant structural reform. In the past year, the Society has incurred substantive financial losses. Decisive steps were taken to limit further losses, but regrettably there have been some changes to project staffing. These changes were understood by staff and approached in a manner reflecting their professionalism.

This years' financial loss has been offset in large part by the c. 14% returns received from our investment portfolio. Although timely, the purpose of the income received by this portfolio is not to act as a financial crutch for the Society. Such losses cannot be sustained indefinitely.

Despite the financial headwinds, there has been unanimous agreement that the purpose of the Society is not simply to exist, but rather to achieve. I commend the boldness and commitment of the staff and the management committee to the Society's aims and objectives. I would like to thank the staff, volunteers and management committee for their efforts over the past year. It has been a privilege working with you.

The coming year looks to be an exciting one for the Society. We have set aside \$20,000 for a survey for night parrots in the Gawler Ranges of South Australia. This project brings with it a lot of exciting opportunities and good will

Finally, I note the recent passing of Darrell Kraehenbuehl, one of the Society's founding members. Darrell left an indelible mark on botany in South Australia.

Love, protect and respect,

Michael Stead

President



Night parrot Pezoporus occidentalis Photo: Steve Murphy



Native fig *Ficus brachypoda P*hoto: M Stead

PUBLIC INFORMATION MEETINGS

Our general meetings are held four times a year and are open to NCSSA members and the general public.

The meetings usually involve an update of current issues that we are working on, and any general business of the Society, followed by a talk from a guest speaker invited to discuss an environmental topic of current interest

As with past years we have run many of our meetings in partnership with the Biology Society of South Australia (BSSA).

Thanks to Michael Stead and the team from BSSA for organising these meetings.

Talk topics over the 2017-18 year were:

Cath Kemper from the SA Museum on "Bring out your dead: the challenges of studying whales and dolphins in SA".

Lindell Andrews of BiosecuritySA, PIRSA on "The management of vertebrate incursions in South Australia".

Presentations by 2017 BSSA and NCSSA Grant Recipients:

Juliana Silva on the topic "Gorsemediated changes in soil during biological invasion".

Tahlia Perry on "Developing molecular indicators for the health and reproduction of our iconic Australian echidnas".

Adam Toomes on "Cunningham's skink: a threatened social lizard in South Australia".







Bird pea Crotalaria cunnninghamiii Photo: M Stead

CONSERVATION BIOLOGY GRANT

Each year we offer honours and postgraduate students the opportunity to apply for grant funding of up to \$2000 to support their research into aspects of conservation biology.

Funds are available for research which is aimed at:

- improving understanding of the conservation status of species or ecological communities
- providing recommendations for improvement of some aspect of biodiversity conservation
- understanding the ecology of species or communities
- understanding threats to biodiversity and management of those threats.

This year we funded the following research projects:

Claudia Santori (PhD Candidate, The University of Sydney), for research on the influence of captivity on habitat choice of head-started juvenile Murray River Turtles (*Emydura macquarii*).

Briony Chamberlayne (PhD Candidate, The University of Adelaide), for research into establishing ecological baselines through bivalve geochemistry.

ADVOCACY

As South Australia's primary nature conservation advocacy organisation, we have an active interest in the protection and conservation of South Australia's precious natural resources with a key focus on nationally and state listed threatened plants, animals and ecological communities, management of protected areas and remnant native vegetation. In August 2017, we recruited Julia Peacock to our part-time position of Nature Advocate to continue our advocacy across a wide range of nature conservation issues. Our

In August 2017, we recruited Julia Peacock to our part-time position of Nature Advocate to continue our advocacy across a wide range of nature conservation issues. Our Conservation Ecologist, Nicki de Preu, continued one day a week, initially supporting and handing over to Julia and then working on a series of position papers on conservation issues of strategic interest to the Society. In the last year Nicki, Julia and other staff have made the following important contributions:

Wildlife and Natural Habitats

We provided advice, comments and/or scientific data for the following:

- the draft State of the Environment report, which is due for release later in 2018, particularly emphasizing the need for adequate monitoring so we can better understand and therefore protect nature.
- the draft national biodiversity conservation strategy 'Australia's strategy for nature 2017-2030', highlighting that the draft lacked commitment to action and did not contain any specific targets and therefore we could not support it in its current form.
- nominated representatives and conservation expertise to the Department for Environment and Water (DEW) Reference Groups for Kangaroo Management, Duck and Quail Hunting and the South Australian Wild Dog Working Group.
- nominated experts and conservation expertise to the DEW "Taskforce Protecting Shorebirds" for the Adelaide International Bird Sanctuary.
- circulated a survey to our members seeking their views on the social values of kangaroos for a research project that will assist DEW with decisions regarding kangaroos and their management.

Fire

- Continued to represent the Conservation Council SA on the Adelaide Mount Lofty and Flinders, Mid North & Yorke regional Bushfire Management Committees.
- Ongoing input to Bushfire Management Area Planning (BMAP) throughout the state through our feedback on draft plans for the Upper Eyre Peninsula and Murray Mallee Bushfire Management Areas.
- Continued involvement in the Ecological Technical Reference Group that provides technical and scientific advice on environmental matters to the State Bushfire Coordination Committee as part of the BMAP process.
- Ongoing involvement in the DEW review of the Ecological Fire Management Guidelines that apply to all fire-prone vegetation types in the agricultural areas of SA and are used to inform prescribed burning practices on public and private land.
- Commented on the draft Witjira Waru Pulka (Fire) Management Strategy that outlined the fire management aspirations of the Witjira National Park Co-Management Board, combining cultural and environment considerations.

Legislative Reform

National

- Attended the Australian Panel of Experts on Environmental Law / Places You Love Alliance event in Canberra in March 2018. This was to begin a campaign for the next generation of Australian environmental laws in the lead up to the 2019 federal election.
- Supported the Birdlife Australia 'Act for Birds' Community forum in Adelaide in May 2018, which discussed the changes needed to adequately protect birds under national environmental law.
- Made a submission to the targeted review of the interaction of the EPBC Act with the agricultural sector highlighting the importance of all land stewards, including farmers, understanding and abiding by the Act.
- Submitted comments on the ongoing approval of the beachwrack fishery (involving the collection of algae from beaches in the south-east) for international export, which highlighted that the license condition requiring a monitoring program be established in order to assess the impact of the fishery on shorebirds didn't appear to have been met.

State

- Continued input to the Leading Practice Mining Acts Review, which released 82 recommendations for improvements in September 2017 that we cautiously welcomed as likely to improve the environmental impact associated with mining activities.
- Participated in preliminary meetings regarding the planned repeal of the Natural Resources Management Act 2004.
- Engaged with reform to the state's land use planning system, including attending a workshop in April 2018 to gain a better understanding of the planned changes, and seeking greater involvement in the development of a State Planning Policy for Biodiversity.

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Protected Areas

The management of protected areas to ensure their natural values are maintained continues to be an important priority for us. We provided comments to DEW on draft Management Plans for the following reserves:

- Simpson Desert Conservation Park and Regional Reserve that cover a combined area of around 3.6 million hectares including the world's largest system of parallel sand dunes and one of the largest areas of high quality wilderness left in Australia
- Nullarbor Parks and Yellabinna and Warna Manda Parks these areas contain some of the world's largest intact mallee woodland ecosystems with the Nullarbor Wilderness Protection Area the largest wilderness protection area in SA covering around 895,000 hectares
- Adelaide International Bird Sanctuary National Park Winaityinaityi Pangkara that
 encompasses over 50 km of coastline along the eastern side of Gulf St Vincent and
 provides important habitat for over 50 species of migratory and resident shorebirds,
 many that are of international or national conservation significance as well as nationally
 threatened plant species

Our comments sought the inclusion of accurate, detailed information on the conservation values of these areas, where it was lacking, and highlighted the importance of protecting biodiversity, particularly threatened species, in these areas.

Sustainable natural resources management

The Society had ongoing input to the sustainable management of the State's precious natural resources through a variety of forums including:

- Provided comment on the Northern and Yorke Strategic Plan 2018-2028 and Board Business Plan 2018-2021
- Made a submission to the Royal Commission into the Murray-Darling Basin Plan, highlighting that there is insufficient water being made available to restore the rivers and floodplains of the Murray-Darling Basin to any sustainable level of health or function
- Wrote to four key SA Senators calling on them to support the Greens disallowance motion which would have stopped the reduction of environmental flows into the Murray-Darling river system by 605GL
- Ongoing involvement with the WildEyre program, Southern Yorke Peninsula and Mid North Agricultural Districts Community Action Planning groups that aim to provide a collaborative, landscape-scale planning approach to conservation of soil, water and biodiversity assets in these areas.
- Ongoing involvement in the South Australian Nature Alliance that involves a formal agreement to work collaboratively between eleven environmental NGO's.

Native vegetation

The protection and proper management of remnant native vegetation remains an issue of key concern for our Society. Activity related to native vegetation protection included:

- Commenting on guidelines developed for revised Native Vegetation Regulations 2017 on clearing of scattered trees and maintenance of existing agriculture. Our input resulted in a lowering of the threshold regarding the number of scattered trees proposed for clearance that would generally not be approved.
- Commenting on the Eyre Peninsula Regional Roadside Vegetation Draft Management Plan, highlighting our concern with the proposed increased height and width of clearance envelopes given the conservation significance of roadside vegetation in the region
- Expressing our concern with the proposal to clear native vegetation to establish a solar farm near Robertstown, particularly given several similar proposals had been or were likely to also be approved
- Protesting the Environment Minister's decision to lease Crown Land to the developers of a golf course on Kangaroo Island, taken in early 2018, as this will result in the clearance of good quality, intact coastal vegetation.

Biosecurity

The threat posed by introduced pest plants, animals and diseases to biodiversity has long been an issue of concern to NCSSA. Over the past 12 months we have contributed to a number of initiatives that aim to address environmental biosecurity risks, including:

- Commenting on revised feral deer and feral pigs policies, supporting their intent but querying how compliance would be enforced
- Attending the South Australian Biosecurity Roundtable in April 2018 to ensure environmental, as well as agricultural, perspectives were represented
- Writing to the Federal Minister in support of the budget announcement of a new levy on shipping containers to create an environmental biosecurity fighting fund.

NATIONAL PARKS AUSTRALIA Council meeting

In November 2017, we hosted a three day meeting of the *National Parks Australia Council* (NPAC), the national body concerned with protecting and extending the national reserve system, including national parks.

A common issue discussed at this meeting was the push for more nature-based tourism inside our parks. Whilst NPAC supports people connecting with nature and recognises that certain visitation activities can be compatible with conservation, it is imperative that the natural values for which parks are declared remain central and are not compromised by infrastructure or other developments designed to support access by visitors.

To get a first-hand feel for this issue, the group visited Onkaparinga National Park where \$1.7 million had been invested in new infrastructure, including a campground and a lookout, as part of the State Government's \$10.4 million "Connecting residents with nature" initiative. Members discussed the importance of protecting the conservation values of reserves from the possible negative impacts of visitation, particularly of higher-impact activities such as horse and mountain bike riding. Kirstin Abley, Fire Ecologist, DEW, presented to NPAC members about prescribed burning ~ an issue of concern, particularly regarding how ecological considerations are addressed in planning and implementation. The group visited Stipiturus Conservation Park to hear Luke Price, DEW Threatened Fauna Ecologist, explain some of the challenges involved in managing the threatened species within the park, particularly with regards to the fire regime. This also provided an opportunity to hear from Ben Taylor, Senior Wetland Ecologist, Nature Glenelg Trust, about efforts to reinstate the previous hydrology of this swamp area by blocking drains in the strategic locations.

A key part of the meeting was strategic discussions about the NPAC policy platform Nature for Life, which is supported by the following 5 briefing papers, currently entitled:

- Completing the CAR Terrestrial Reserve network, which seeks the allocation of adequate resources to assist the state and territories in completing strategic acquisition to the national reserve system.
- 2. A **Matter of National Significance**, about the listing protected areas that comprise the national reserve system as Matters of National Environmental Significance under the EPBC Act, with provision for other protected areas to be listed voluntarily.
- 3. Marine Protected Areas which calls for the establishment of a National Representative System of Marine Protected Areas that is comprehensive, adequate and effective, and is managed equitably and effectively.
- 4. **Connecting Nature**, which calls for support of nationwide bio-link projects, which enhance connectivity between key habitats.
- 5. Maintaining the Conservation Values of the National Reserve System by developing national conservation land management standards that ensure that all NRS protected areas, including national parks, retain the values that led to their gazettal

NCSSA wishes acknowledge the effort and time of Nicki de Preu in organising the meeting and to thank DEW for its support by providing speakers.





Silver banksia *Banksia marginata* Photo: M. Stead

THREATENED PLANT ACTION GROUP (TPAG)

TThe TPAG Program is funded through NCSSA by the AMLR NRM region and small grants. Our thanks to Tim Jury for his work as coordinator and the admirable efforts of all the volunteers willing to get their hands dirty to aid the status of threatened plants.

During 2017-18 TPAG continued to make a tangible contribution towards improving *in-situ* conservation prospects for some of South Australia's most threatened flora through onground work, and contributions to threatened species information, policies and management practices.

TPAG working-bees and field days produced good results from the actions implemented to regenerate and restore threatened flora. Over 2300 hours of on ground work by 60 volunteers contributed to the recovery of around 50 threatened plant species and improving the condition of critical habitat at around 40 sites. Recovery actions included: reduction of weed competition; fencing to protect habitat; revegetation; plant-population monitoring; flora surveys; stakeholder liaison; and public education.

We continue to develop effective working partnerships with landholders, environment agencies and other community groups.

Thanks to our valued partners and supporters: DEW and Regional NRM Boards, Friends of Parks, Native Orchid Society of SA, Trees for Life, Australian Plant Society, Forestry SA, SA Water, District Councils and private landholders.

PROJECTS

MOUNT LOFTY RANGES WOODLAND BIRDS MONITORING PROGRAM

The 2017-18 survey took place between early August 2017 and January 2018. It got off to a better start than the previous year when we suffered delays due to wet and windy weather and then numerous Fire Bans.

All 166 active survey sites were visited three times which added up to 498 individual surveys and 6915 bird records. This data, as well as being entered into the MLR Woodland Bird Survey Database maintained by NCSSA, is also uploaded into the Biological Database of SA.

Some changes were introduced this year including making available electronic copies of the site maps. This meant that surveyors didn't need to visit the office to pick-up and return map packs and datasheets. This, along with monthly updates from the Coordinator, kept things moving along well and saved a lot of time and effort.

As well as some dedicated surveyors who keep coming back year after year, we also managed to find some new recruits who were all trained and inducted. The Program relies heavily on the surveyors who spend several months getting up very early, often in very cold conditions particularly at the start of the season. The Program wouldn't be possible without their involvement and their efforts are greatly appreciated. Likewise, we're very grateful to all the private landholders and to Forestry SA, SA Water and Dept. of Environment and Water (DEW) for their ongoing support in allowing us to maintain sites on their properties.

During the year we also revisited a number of the Bush Condition Monitoring (BCM) sites originally set up in association with the bird sites for a project being undertaken by the University of Adelaide. We hope that the information collected can eventually be used to help understand population trends in the bird assemblages of the Mt Lofty Ranges.

A summary pamphlet describing the significant bird species and findings to date has been completed and is due for publication in spring 2018.

The 2018 season is currently about to start and Ali Ben Kahn will again coordinate the Program. $\,$

Funding for the Program comes from the Adelaide Mt Lofty Ranges NRM Board with other assistance from DEW and The University of Adelaide.

Some records of interest in 2017-18

- Beautiful Firetail: at 1 site (Cox Scrub)
- Chestnut-rumped Heathwren: recorded at 3 sites (Cleland, Mt Bold & Cox Scrub)
- Diamond Firetail: at 2 sites (Sandy Creek & Cox Scrub)
- Tawny-crowned Honeyeater: at 1 site (Cox Scrub)
- Spotted Pardalote: at 13 sites (Cleland x 2 sites, Cox Scrub x 2, Onkaparinga Gorge, Scott CP, Para Wirra x 3 & Old Kersbrook x 4).
- Varied Sittella: at 14 sites
 (Hazkett Rd, Cleland x 3 sites,
 Cox Scrub, Wicks Reserve, Bulloch
 Hill, Mt Hayfield Track, Tugwell Rd,
 Mt Gawler, Bushland Park, Mt
 George, Twin Oaks & Stock Rd).
- Bassian Thrush: none recorded.

Diamond Firetails *Stagonopleura guttata* Photo: Peter Kieskamp, Callington 2015



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BUSHLAND CONDITION MONITORING

The Bushland Condition Monitoring (BCM) project provides training, manuals, and a database to allow community and professionals to score and monitor the health of the native vegetation of South Australia. Field observations are made on a range of condition indicators that are scored regularly. These indicators are measurable and dynamic attributes of bushland health, biodiversity and habitat value. They demonstrate current condition and the magnitude of and direction of changes.

The BCM program has currently established 1832 sites across the State, of which 455 have been re-assessed to determine changes in condition. From these assessments there are almost 77,000 species observations.

During the year we have been busy with BCM survey and reporting work primarily in Northern and Yorke and the Adelaide Mount Lofty Ranges NRM regions with over 80 sites visited with the majority being re-visits. This comprises sites linked to management as part of specific NRM projects, capture of older un-entered data (150 sites) and baseline sites in under-sampled vegetation communities. It includes:

- AMLR MLR Woodland Birds
- N&Y BCM general revisits and gap filling
- · N&Y Greening Australia BCM data capture

Additions to the BCM Manual were completed for N&Y, describing vegetation communities within the Southern Flinders Ranges and adjoining plains, including the Willochra and Olary Plains, and the coastal plains adjoining upper Spencer Gulf.

Our staff has been working closely with DEW staff on developing a new MOU and improving both the functionality and stability of SABAT (now officially called the BCM Application). The MOU has been finalised and testing of the new 'front end' of the BCM App is about to commence. This is a particularly exciting development as it will allow users in the regions to enter, edit and extract their own data.

Funding Applications

Following the end of the previous round of Federal Government funding to National Landcare Program (NLP) funding including the completion of the very successful WildEyre program, Jeff set about preparing grant applications in partnership with the various Regional NRM Boards.

We submitted two applications and were partners on two others under the NLP2-Smart Farming Partnerships. Unfortunately, none were successful and obtaining funding was very competitive and made more challenging by the focus being on agricultural viability and productivity. There is still scope for these projects to be supported in the next funding round in 18/19.

At the time of preparing this report, negotiations between the Federal Government and the NRM boards were still underway regarding allocations to the boards and the projects range of projects to be funded within each region. We are confident that there will be an ongoing commitment by a number of the regions to continue BCM monitoring to keep track of the impact of their management actions on the condition on native vegetation.

Additional input has been put into an application with N&Y NRM to the Native Vegetation Council to continue work on the Burra to Kapunda project, which is part of the 'Mid North Horizons' program. The outcome of this application will be known later in 2018.

We also submitted a project proposal for the 'Survey for the Night Parrot in the Gawler Ranges' to the Australian Ethical Community Grants Program. Our application was shortlisted to the final 35 of over 500 projects submitted. The winning projects will be narrowed to 20 following a public vote, with winners announced in early September.

Facebook & Media

The NCSSA Facebook page has been revitalised and reactivated during the last year. At the beginning of the year our Facebook page had 545 page likes but by the end of the year our page likes had increased to over 700. We anticipate building the number of people we reach by more frequent posting of our activities and other relevant posts using Facebook and developing a Twitter profile.

Jeff Foulkes appeared on a number of TV and radio interviews on topics including Night Parrots, Threatened Species, Senate Inquiry in to mammal extinctions and the proposed redevelopment of Cleland Wildlife Park.

Other items of interest

In conjunction with other WildEyre member groups, NCSSA staff contributed to the EPBC Threatened Ecological Community for the Drooping Sheoak *Allocasuarina verticillata* Grassy Woodlands on Calcrete of the Eyre Yorke Block Bioregion (IBRA 7.0) also referred to as Sheoak Grassy Woodland on Calcrete.

Signatory on MOU with N&Y and other parties in the delivery of CAP programs that address critical conservation issues by bringing together local landholders, non-government and government organisations. The development of a common vision between the project partners has been achieved through a collaborative process, which recognises the partner's strengths, knowledge and capabilities.

Jeff has become Conservation SA Rep on SA Wild Dog Advisory Group (SAWDAG).



Wild Eyre Red Gum BCM site, Spring 2012 Photo: P. Mahoney

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