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Principal Partner



PASSION

We inspire and influence through our valuable conservation efforts and recognise success.

EFFECTIVENESS

We focus on clearly defined shared goals and support people to achieve them.

INNOVATION

We seek creative ways to achieve goals and promote a culture of learning and improving.

INTEGRITY

We are guided by our values and deliver on our promises.

RESPECT

We respect individual's values and encourage a culture of collaboration, listening and trust.



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Principal Partner

Westpac

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Zoos SA Vision, Mission and Goals

White Rhinoceros / Image credit Adrian Mann

Zoos SA is a long-established and successful organisation that is an integral part of South Australia; since Adelaide Zoo opened to the public in 1883, six generations of South Australians have passed through its gates. It is a conservation charity dedicated to biodiversity conservation with more than 42,530 members.

OUR MISSION

Zoos SA is a conservation charity that exists to save species from extinction and to connect people with nature.

OUR 20-YEAR VISION

Our vision is to lead and achieve long term conservation change through our internationally renowned sites, programs and people.

OUR BUSINESS

As set out in the Zoos SA Business Plan 2016 – 2021, the organisation has four primary goals and a series of broad strategies to achieve these. The relationship between the strategic plan and the business plan is shown below.

STRATEGIC PLAN

GOAL 1

Save species from extinction

5.1



GOAL 2

Connect people with nature: inform, empower and inspire people to act

5.2



GOAL 3

Work in an ethical and sustainable manner, influencing others to follow our example

5.3



GOAL 4

Apply an innovative business approach to grow a sound and advancing organisation

5.4

BUSINESS PLAN

Saving Species

Connecting People with Nature

Working Ethically and Sustainably

Building a Sound Business



President's Report

The Zoos SA Board is exceptionally pleased with what has been achieved over the last twelve months.

The 2015-16 financial year as a whole has been extremely positive for Zoos SA with the organisation recording another financial surplus and strong visitor numbers across both sites.

Following the launch of our Master Plan last year, we hit the ground running to deliver Nature's Playground which was launched in December 2015 on time and within budget. This is a significant achievement for our organisation just ten months after releasing our Master

record such numbers and our new membership figures alone account for more than 19,000 households across South Australia. In addition, recent life membership campaigns have delivered phenomenal success with thousands of members now enjoying a lifetime of unlimited access to our zoos.

This strong membership growth equals many more people each year connecting with nature in a fun and engaging way, while supporting us to achieve our conservation goals.

On top of this, Zoos SA's broader conservation purpose has grown in prominence and professionalism over the last year. Community awareness

of our conservation efforts continues to grow, as we apply world class zoo standards and contribute to global conservation efforts through our integrated conservation programs.

The Zoos SA Board is highly engaged to ensure that the organisation achieves our aspiration of becoming

a leading international conservation organisation, while delivering diversified revenue streams and the continuation of a sustainable financial base that supports the organisation. I'm confident that our board membership achieves the right mix of talent, skills and

experience to achieve this goal. Our range of skills across accounting and finance, environment policy, fundraising, strategic business and marketing, means we are better equipped to deliver value, respond to challenges that may arise in the future and position the organisation for success.

As I reflect on another year, I am reminded of the many reasons I am proud to lead the Zoos SA Board, and I am excited about the future.

I would like to extend my thanks to Elaine, the senior management team, and all staff and volunteers for delivering such positive results for the year. The hard work and dedication of staff and volunteers helps secure a sustainable future for many species and connects thousands of people with nature each year. Without our staff, volunteers and members, none of this would be possible.

I also wish to thank the Zoos SA Board for their expertise and commitment over the year. As an organisation, we can look forward to the 2016-17 year with great confidence.

David Sanders
President

Following the launch of our new play space, we reached a significant milestone of 40,000 members in January. This has since climbed to over 42,530 members.

Plan. Following the launch of our new play space, we reached a significant milestone of 40,000 members in January. This has since climbed to over 42,530 members. This is a remarkable achievement for the organisation, as few South Australian institutions ever





Chief Executive's Report

It is with a great deal of pride and satisfaction that I present the Annual Report 2015-16.

In reflecting on the past year, I am confident that our organisation is delivering on our mission to lead and achieve long term conservation change. We continue to create experiences that delight and inspire lasting connections between people and nature.

Over the past year, our conservation efforts have contributed to tangible outcomes with a number of significant

breeding successes.

This year, we were thrilled to announce a world first in captive breeding with the birth of fourteen endangered Pygmy Blue-tongue Lizards, as well as the arrival of four African Wild Dog puppies at Monarto Zoo. At Adelaide Zoo, we

have experienced breeding success with the Orange-bellied Parrot, the critically endangered Western Swamp Tortoise, and the Dyeing Poison Dart Frog.

If ever you were searching for a reminder as to why there is a persistent and growing need for active conservation efforts within zoos, a recent survey of Addax numbers in

Africa found there are only three surviving in the wild. At Monarto Zoo, we've proudly bred more than thirty Addax since 1994.

This demonstrates the important role organisations such as Zoos SA play in supporting species on the edge of extinction. All of our conservation efforts over the past year are a strong reflection of Zoos SA's mission to save species from extinction and are a testament to the work of our dedicated keepers and veterinary team.

Another example of Zoos SA delivering on our mission is our work with The Australian Rhino Project (TARP). In April, we announced that we will be partnering with TARP to relocate a number of endangered Southern White Rhinoceros to Australia in an effort to safeguard the species while efforts to stem the poaching crisis in Africa continue.

Our conservation efforts are underpinned by our commitment to build a sound business. I am very pleased with how Zoos SA performed through the 2015-16 financial year against our key performance indicators set out in our business plan.

All of our conservation efforts over the past year are a strong reflection of Zoos SA's mission to save species from extinction and are a testament to the work of our dedicated keepers and veterinary team.

During the financial year, we focused on improving our visitor experience at our sites and growing attendance and membership with much success. We also focused energies on a number of innovative business strategies including rolling out an iBeacon mobile application, as well as a new booking and ticketing system.

Each year our Business Plan is reviewed and updated to reflect the significant achievements already made and the areas which require focus for the next twelve months.

In reviewing the Business Plan for 2016-17, we have identified a strong focus for the following key areas:

- Continue strong visitation and membership numbers.
- Actively seek funding to continue the Master Plan's implementation to deliver successful and dynamic sites.
- Deliver our conservation and education goals.
- Strengthen partnerships and our broad support base beyond our gates.
- Build on our gains to staff engagement, development and wellbeing.
- Advance our financial goals by diversifying income streams and investing in the future.

Financial sustainability will remain critical so that we can continue to deliver our vital conservation work to save species from extinction.

My sincere thanks to everyone who helped make 2015-16 another successful year; from our dedicated staff and volunteers, to our loyal membership base, partners and supporters, and of course our Board and senior management team.

As an organisation, we have much to be proud of and much to look forward to in the coming year.

Elaine Bensted
Chief Executive



African Wild Dog / Image credit Geoff Brooks

Board Members and Governance

In line with the rules of the society, Zoos SA is governed by a volunteer board with members donating their time and professional expertise. Board members are responsible for the performance of the incorporated association. The board draws on and applies relevant corporate governance principles and practices, has approved a charter and ensures conflicts of interest are considered at every meeting. Day-to-day management of the business is delegated by the board to the chief executive and senior management team, with quarterly performance reports provided to the board from the chief executive.

ZOOS SA BOARD MEMBERS



DAVID SANDERS

President

David Sanders is a partner in the Adelaide assurance practice, Ernst & Young and is a qualified chartered accountant and registered company auditor. David and his family have been members of the zoo for many years.



RODNEY HOBBS

Vice President

Rodney is a lecturer and tutor in Contemporary Accounting Theory and Accounting for Management at the University of South Australia. He has extensive experience from his time working for 17 years in the Department of Treasury and Finance and the Department for Environment and Heritage.



GRAEME CROOK

From 1983-1986 Graeme was a keeper at Adelaide Zoo. Following, Graeme went on to gain over ten years experience with Animal Services at CSIRO Division of Human Nutrition, before moving into IT. As a zoologist, strategic thinker and R&D project manager, Graeme brings his professional and academic experience to the Zoos SA Board.



TRACEY SHEPARD

Tracey Shepard is a Senior Accounts Officer at Capgemini Australia, liaising with teams in India and China. She is also the chair of Capgemini Adelaide's Corporate Social Responsibility Committee. Tracey brings her experience in building and nurturing multicultural relationships to the board.



KEVIN MCGUINNESS

Kevin is a chartered accountant with more than 25 years experience in senior finance and operation roles. He is the past president of the society with a passion for the zoo and the role it plays within the South Australian community.



KATE THIELE

Kate is the Chief Executive of Guide Dogs SA and has more than 10 years of board and executive experience. Her experience in the not-for-profit sector and governance brings valuable skills to the board.



JULIEANN RIEDSTRA

Julieann is the Deputy Chief Executive, Resources of the Department for Education and Child Development. Julieann has more than 25 years experience in the South Australian public sector in finance, corporate services and infrastructure roles. Julieann has been a Life Member since 2008.



CAROL TILT

Carol is a Professor of Accounting at the University of South Australia and a Fellow of CPA Australia. Carol is passionate about conservation and is a member of several environmental and animal welfare groups.



TIM JARVIS AM

Tim combines his love of adventure with a passion for the natural world – demonstrated through his work as an environmental scientist, public speaker and explorer of some of the planet's remotest places. His environmental background and public advocacy experience will strengthen the board and its governance.

BOARD MEETING ATTENDANCE 2015-16

	28/07/15	29/09/15	19/10/15	27/10/15	15/12/15	2/02/16	25/02/16	31/03/16	26/04/16	21/06/16	ATTENDED	APOLOGY
David Sanders	1	1	1	1	1	1	1	1	1	1	10	0
Rodney Hobbs	1	1	1	0	1	1	1	1	1	1	9	1
Kevin McGuinness	1	1	1	1	1	1	1	0	1	1	9	1
Graeme Crook	1	0	0	1	1	1	1	0	0	1	6	4
Tracey Shepard	1	0	1	1	1	1	0	1	1	0	7	3
Carol Tilt	1	1	1	1	1	1	1	1	1	1	10	0
Kate Thiele	0	1	0	1	0	1	0	1	1	1	6	4
Julieann Riedstra	1	1	1	0	1	1	1	1	1	1	9	1
Tim Jarvis	1	1	1	0	0	0	0	1	0	1	5	5

SUB-COMMITTEE MEMBERSHIP AND ATTENDANCE 2015-16

FINANCE AND AUDIT MEETINGS

	23/07/15	28/07/15	27/08/15	24/09/15	22/10/15	19/11/15	28/01/16	23/02/16	18/03/16	21/04/16	26/05/16	27/06/16	ATTENDED	APOLOGY
Rodney Hobbs	1	1	1	1	0	1	1	ceased on committee 28/1/16					6	1
Kevin McGuinness	1	1	1	1	1	1	1	1	1	1	1	1	12	0
David Sanders	1	1	1	1	1	1	1	1	1	1	1	1	12	0
Julieann Riedstra	commenced on committee 23/2/16							1	1	0	1	1	5	1
Dennis Mutton	commenced on committee 23/2/16							1	0	0	0	1	2	3

RISK AND GOVERNANCE MEETINGS

	25/08/15	11/11/15	16/03/16	ATTENDED	APOLOGY
Kate Thiele	1	1	1	3	0
Kevin McGuinness	1	1	1	3	0
Kate Hartwig	1	0	1	2	1
David Sanders	1	1	1	3	0

ZOOS SA SENIOR MANAGEMENT

The chief executive and senior management team are responsible for the implementation of corporate strategy and business plan initiatives. The organisation is managed through four divisions with each director supported by a team of staff and a formal delegations manual outlines the level of authority held by positions within the organisation

DIRECTOR CORPORATE SERVICES	DIRECTOR LIFE SCIENCES	DIRECTOR BUSINESS OPERATIONS	DIRECTOR HUMAN RESOURCES
Jon Munn	Peter Clark	Sarah Brown	Leonie Murphy

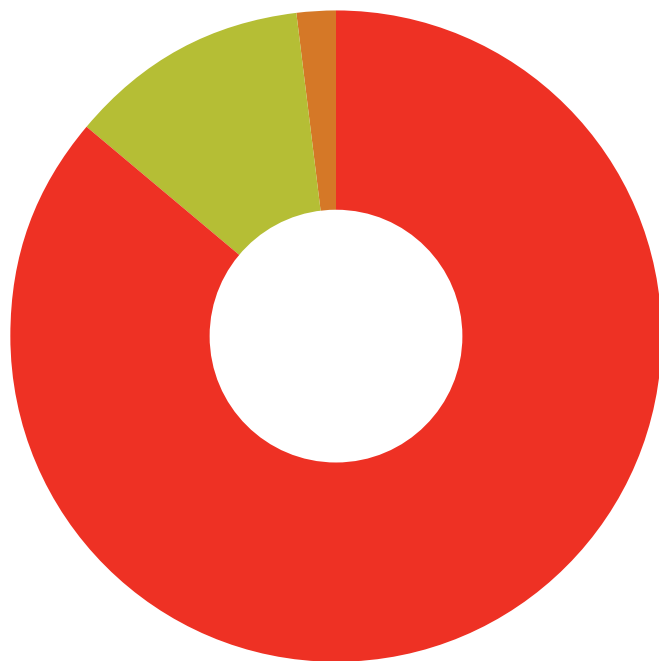
Leopard Tortoise / Image credit Dave Mattner



Year in Review Snapshot

FIVE YEAR BUSINESS PLAN

This financial year Zoos SA tracked and reported progress against a set of activities outlined in its business plan. This plan is guided by our strategic plan and the activities span all areas of the organisation. Over the year significant headway was made against many of the tasks with the majority completed within this financial year or well progressed. Out of a total of 58 individual tasks detailed in the business plan, 50 were completed, 7 partially completed and 1 not completed.



- Completed
- Partially Completed
- Not Achieved in Financial Year

55,264

people
attended functions
at our sites

500

animals were born at
Adelaide Zoo

96

animals were born at
Monarto Zoo



1.1 million people visited
our websites

432,698

people visited
Adelaide Zoo

133,699

people visited
Monarto Zoo

600

registered
volunteers
across both sites



close to
12,000 people
participated in animal experiences
or brief animal encounters



2,619 life
members

39,911 annual
members

Sumatran
Tigers

Tasmanian
Devil

African
Lions

Meerkats

Were the
most popular
animal to
adopt

8 international
conservation projects
were supported

5995 native tubestock
planted for the
**South-eastern Red-tailed
Black Cockatoo**

Year in Review

Finance

Snap Shot

2015–2016 continued to see good growth for Zoos SA. We are delighted to report a surplus of \$927,000, which was \$866,000 ahead of our budget surplus of \$61,000.

We have been able to strengthen our financial position, notwithstanding challenging revenue and cost targets.

We have continued the trend of strong visitor growth, with increases in attendances at Adelaide Zoo and Monarto Zoo of 7% and 8% respectively.

We saw total attendances in 2015-16 of approximately 566,000, which is up from 527,000 in 2014-2015. This saw an increase in admissions and retail income of \$479,000, which is an increase of 6%.

These increased admissions are supported by increasing membership levels, with membership up by 18% on 2014-2015. This increased membership amounts to approximately \$456,000 of additional income.

Funi the Giant Panda / Image credit Adrian Mann



We received bequest income of \$753,000, and corporate support from in-kind contributions and sponsorships increased by \$853,000 to \$1,992,000.

Much of this provided valuable support for our new Nature's Playground development. The increased corporate support is particularly pleasing given the difficult and competitive corporate sponsorship market.

Operating expenditure was well controlled, with several initiatives being implemented to drive efficiencies and reduce costs. This is in line with our proactive approach to activity and expense management.

We are not alone in facing cost pressures, particularly in relation to energy and water prices. Late in 2015-2016, we implemented a solar power purchasing agreement (PPA) with AGL. This solar PPA has no upfront costs, and will be fully owned by Zoos SA after seven years. The financial benefits of this investment will commence in 2016-2017. The effect of these panels will be to reduce our reliance on externally supplied electricity by approximately 20%, and result in reduced emissions of 200 tonnes of CO₂-e.

We continue to explore opportunities to reduce costs, consumption and waste, and expect to see further reductions in each of these during 2016-2017.

We invested \$2,921,000 in capital during the 2015-2016 financial year (\$1,263k in 2014-2015). Of this, \$1,778,000 was for the new Nature's Playground at Adelaide Zoo. We continue to invest in maintenance and improvement capital, balancing the need for maintenance investment with the requirement to invest in new and exciting facilities.

We budget for capital investment each year, and where additional funds become available during the year, we assess whether these funds are best applied against capital or accelerated debt reduction.

We increased our investment portfolio, with a purchase of an additional \$30,000 in shares. Our investment portfolio returned dividends of \$26,000.

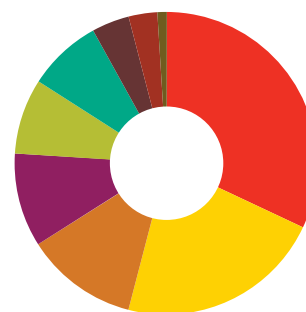
The Westpac debt was reduced by \$221,000, with a balance at 30th June of \$6.3 million. We have budgeted to reduce this by \$500,000 during 2016-2017 financial year.

In updating our rolling five year business plan, we have prepared forward estimates that enable reduction of our Westpac loan from within our annual operating budget. The repayment schedule is regularly discussed with Westpac and the South Australian Government.

Key Achievements:

- Surplus of \$927,000;
- Membership numbers and revenue up by 18%;
- Controlled cash flow and increased investment portfolio;
- Continued improvements to purchasing and procurement practices;
- Completion of Nature's Playground within budget, and maintenance and development capital expenditure in line with previous years;
- Visitor admissions up by 7%;
- Admissions and retail income up by 6%;
- Establishment of solar power panel agreement.

REVENUE



Admissions including Education	32%
Grants - State Government	22%
Membership	12%
Fundraising, Sponsorship & Donations	10%
Grants - Other	8%
Retail & Catering	8%
Tours & Events	4%
Bequests	3%
Other	1%

This graph represents the society's revenue for 2015-16 as detailed on page 60. Grants revenue has been further separated into 'state government' and 'other' categories.

EXPENSES



Animal Care	30%
Exhibits, Gardens & Buildings	27%
Customer Service	19%
Education, Conservation & Research	12%
Fundraising & Marketing	8%
Administration	4%

This graph represents the society's expenses and how it spends its revenue. Salary costs have been allocated to the categories listed above so as to provide more detailed information on how funds are spent.



Saving Species From Extinction

The last twelve months have been significant with a number of important births, deaths and new additions at both zoos.

In January, we were excited to announce the arrival of four African Wild Dog puppies at Monarto Zoo. It's been ten years since our last successful litter of this endangered species.

We were thrilled to announce a world first in captive breeding with the birth of fourteen endangered Pygmy Blue-tongue Lizards at Monarto Zoo. The breeding success is a major contribution towards the conservation

of one Australia's rarest native reptiles and represents 24 years of work.

In another positive breeding story for Monarto Zoo, Monarto has had breeding success

with four Scimitar-horned Oryx calves bred since January last year, helping to ensure the future of this species within the region.

As for Adelaide Zoo, the bird department at Adelaide Zoo has continued their breeding success with Australia's rarest bird species, the Orange-bellied Parrot.

In addition, Adelaide Zoo has had the most successful year yet in our fight to protect the critically endangered Western Swamp Tortoise. Three tortoises have hatched so far and are doing well.

Reptile keepers at Adelaide Zoo have successfully bred the Dyeing Poison Dart Frog for the first time in our history. We currently have six little frogs on display in the froggery and a number more little froglets residing in back of the froggery.

All of these breeding efforts are a strong reflection of Zoos SA's mission to save species from extinction.

A complete listing of animals housed at Adelaide and Monarto Zoos listed under the Convention on International Trade in Endangered Species of Wild Fauna and Flora and International Union for the Conservation of Nature is detailed in Appendix A.

Adelaide Zoo has had the most successful year yet in our fight to protect the critically endangered Western Swamp Tortoise.



Scimitar-horned Oryx / Image credit Geoff Brooks

ADELAIDE ZOO

ARRIVALS AND BIRTHS

November 2015 – March 2016 Three new female Hamadryas Baboons were acquired from Wellington Zoo in New Zealand. Sadly in March, one female passed away due to medical complications.

December 2015 – March 2016 Five Hosmer's Skinks were bred in Reptile House and consequently distributed around the region.

January 2015 – January 2016. Five Lady Amherst's Pheasants were bred in the Nicobar Pigeon exhibit.

February 2016 Birth of a female Greater Bilby in February 2016 from a pair in our Children's Zoo which was hand-reared and also now forms part of our presentation collection.

June 2016 Four Australian Little Penguins hatched as part of the regional breeding program.

January 2016 – March 2016 Eight Macquarie Turtles were bred in the Reptile House and transferred out to private parties.

October 2015 – March 2016 Three Pygmy Marmosets were born over this period.

April 2016 – May 2016 A pair of Royal Spoonbills were transferred out of the collection to Healesville Sanctuary in Victoria and two pairs of females were received back into the collection as part of the regional plan.

December 2015 Two male Serval kittens were born. Both will be transferred out of the collection at a later date as part of the regional breeding program.

February 2016 Five Spur-thighed Tortoises hatched, one survived for several weeks before succumbing to a medical condition. The four remaining animals are slowly growing well.

May 2016 Two post breeding female Tasmanian Devils were transferred from Monarto Zoo, as part of the regional plan.

May 2016 Three critically endangered Western Swamp Tortoises hatched, and work commenced on updating the off limit breeding area for the forthcoming season.

January 2016 – February 2016 A male and female Mainland Tammar Wallaby were born.

November 2015 – March 2016 A new male Squirrel Glider was brought into the collection as part of the regional plan and we have since had a male and two female offspring born.

August 2015 – June 2016 As part of the regional plan we have transferred in and out of the collection four female Regent Honeyeaters and also bred a male and a female this breeding season.

July 2015 Fifteen new Potbelly Seahorses arrived and settled into their exhibit and have started breeding.

December 2015 We welcomed two female Galahs. These new arrivals will form a larger presentation flock. One of the Galahs is a Common Galah, the second is a Northwestern Galah.

September 2015 – December 2015 Eighteen Dyeing Poison-arrow Frogs tadpoles hatched.

October 2015 Two Golden Lion-tamarins were born and successfully reared by their experienced parents. This brings the family to eight in total, with all using the aerial walkways around their exhibit.

December 2015 A Gang-gang Cockatoo, 'Gregory,' was hatched and reared successfully.

May 2016 A female Fennec Fox, 'Amber', arrived from Monarto Zoo for breeding.

August 2015 – September 2015 Arrival of four rescue juvenile Common Ringtail Possums to Children's Zoo which were hand reared and now form part of our presentation collection.

NEW TO THE ZOO

August 2015 Back into our collection after several years is a pair of privately donated Scarlet Macaws. This species of Macaw is depicted on our coat of arms.

November 2015 Two female Veiled Chameleons were obtained to become part of the Envirodome encounters.

December 2015 A young Emu, 'Cecil', hand-reared by a natives keeper was donated to the zoo in May.

February 2016 Three female Emperor Tamarins arrived from Mogo Zoo. This is the first time this species has been exhibited at Adelaide Zoo.

April 2016 We acquired a male and female Olive Python, these reptiles will, after a lengthy quarantine period, form part of our extensive presentation collection.

April 2016 We received a confiscated Hermann's Tortoise which is a new attraction in the Children's Zoo.

April 2016 A male Eastern Grass Owl, and a Lesser Sooty Owl, were transferred into the collection from a Queensland Zoo that was ceasing operation. These new additions will form part of our presentation flock.

May 2016 An eleven-month-old Pygmy hippopotamus 'Obi' arrived from Melbourne Zoo as part of a regional breeding program. He is the offspring of 'Petre' who was bred at Adelaide Zoo in 1984.

May 2016 A pair of adult Rhinoceros Iguana were received and are to be displayed in the reptile exhibits adjoining the Nocturnal House.



Orange-bellied Parrot / Image credit Emma Macchia

May 2016 We welcomed a female Northern Quoll which is now on display in the Nocturnal House.

DEPARTURES

August 2015 – March 2016 This year we transferred in and out of the collection numerous Orange-bellied Parrots to facilitate the regional program. This showed the flexibility we have within the region to assist with this program at short notice; the result was that six birds have fledged during the breeding season.

December 2015 A pair of Blue-and-gold Macaw, 'Charlie' and 'Madidi', were sent to a private breeder. 'Manu', our free flight Blue-and-gold Macaw left the zoo for two nights before being reunited with his keepers and brought safely back to the zoo.

December 2015 – February 2016

Three female Capybara were transferred to Tasmania Zoo. One male and two female Capybaras were also transferred to Gorge Wildlife Park in the Adelaide Hills for display. Three male Capybara were transferred to Darling Downs Zoo in Queensland.

January 2016 Three male Ghost Bats were transferred to Wildlife Sydney Zoo.

February 2016 All of our large macropods from the Children's Zoo Fauna Park were transferred out of the collection to Minton Farm in the Adelaide Hills.

May 2016 Our adult male Fennec Fox 'Scamp' was transferred to Monarto Zoo.

July – August 2015 A pair of Black-winged Stilts were transferred in from Taronga Zoo. Three males and one female were transferred out as part of the regional breeding program. Our oldest female Black-winged Stilt passed away at the age of 16 years.

SORELY MISSED

March 2016 One of our original male Hyacinth Macaws was found deceased in his exhibit due to a medical condition.

April 2016 Our single aged Tasmanian Devil, 'Fish', passed away at the age of seven years.

December 2015 One of our female African Wild Dogs, 'Laqueta', passed away at the age of twelve and a half years.

December 2015 'Boots' our Emu passed away suddenly.

September – November 2015 The female Asian Small-clawed Otter died at the age of fifteen years. This resulted in our blind male Otter being by himself. Staff were mindful of this and he passed away two months later at the age of seventeen years.

March 2016 An aged male Common Tree Shrew passed away at the age of six and a half years.

May 2016 'Pemba', our breeding male Red Panda passed away due to health issues.

GIANT PANDA UPDATE

The 2015 breeding season was the most successful season to date. On 15 September 2015, introductions occurred on exhibit for the first time.

Both pandas showed excellent natural mating behaviours, with Wang Wang in particular showing mature dominant male behaviours, including staying at the base of the large oak tree when Fu Ni climbed it. This is perfect natural Giant Panda breeding behaviours. Fu Ni was artificially inseminated twice with semen from breeding partner Wang Wang which was of excellent quality and volume. Following on from the breeding season Fu Ni showed

pregnancy and pseudo-pregnancy signs. Several new behaviours were observed this year, including den protection and hesitation to move away from the den area and hesitation in ultrasounds in the later stages of the birthing season. Although Fu Ni did not give birth this year, we have every hope that she will go on to become a mother in the future. The knowledge and experience gained will put us in an excellent position to experience success in the future. Adelaide Zoo is committed long-term to Giant Panda conservation, and we look forward to continuing our work with research partners and colleagues in China.

MONARTO ZOO

ARRIVALS AND BIRTHS

January 2016 – February 2016 We welcomed fourteen Pygmy Blue-tongue Lizards, the first ever bred in captivity. We also acquired six new Pygmy Blue-tongue Lizards from the wild for a research study and two from Adelaide Zoo.

January 2016 Our pair of African Wild Dogs were successful this year in raising a litter of four puppies, one male and three females. This is the first successful litter in ten years and very important for the region.

September 2015 Our Southern White Rhino herd increased with the birth of one female calf, Tundu.

September 2015 – June 2016 We received four female Addax for breeding from other zoos in the region because our current herd is aging. We had one male and three female calves born into our herd.

November 2015 – December 2015 We received another female Waterbuck and had our first ever calf born.

June 15 – March 16 Five Bison calves were born this year, with four surviving.

April 2016 / September 2015 – June 2016 We received two Barbary Sheep rams and welcomed nine births.

October 2015 – June 2016 We bred thirteen Blackbuck.

September 2015 We welcomed back 'Asali' a female Giraffe from Perth Zoo, who was born at Monarto Zoo.

October 2015 – January 2016 Our Eland herd saw seven successful births.

November 2015 / May 2016 Two Przewalski's horse foals were born, meaning we have bred over fifty foals since we have held this species.

September 2015 – June 2016 Our Scimitar-horned Oryx breeding herd delivered four successful births.

October 2015 We welcomed two male Chimpanzee infants within a few weeks, with one unfortunately not surviving.

July 2015 We welcomed another Hyena into our clan.

July 2015 / April 2016 Two Brush-tailed Bettongs were born.

May 2016 We received one male and two female Fennec Fox.

October 2015 – February 2016 / April – June 2016 Three Greater Bilbies arrived and five Greater Bilbies were born.

November – December 2015 Two male Fallow deer were born.

November 2015 – May 2016 Nine Tasmanian Devils were received as part of Australasian Species Management Program breeding recommendations.

March 2016 Two male and five female Tasmanian Devils were born.

December 2015 Our pair of Tawny Frogmouth produced a chick; unfortunately it only survived a few weeks.

August 2015 – April 2016 We received three Yellow-footed Rock-wallabies from elsewhere within the region and three wallabies were born.

NEW TO THE ZOO

April 2016 We acquired a new species for our Asian Grasslands exhibit with the addition of one male and four female Red Deer.

DEPARTURES

April 2016 We transferred ten Barbary Sheep ewes to Taronga Western Plains Zoo.

May 2016 We sent one female Fennec Fox to Adelaide Zoo for breeding.

April 2016 Four Brush-tailed Rock-wallabies were sent to Alice Springs Desert Park.

January – May 2016 Three bilbies were sent to other zoos within the region.

February 2016 Our Peaceful Doves were sent to a private holder, as they proved to be unsuitable for our Mallee Aviary.

May 2016 Two female post-breeding Tasmanian Devils were sent to Adelaide Zoo for display.

October 2015 Three Tasmanian Devils were sent to Toledo, Ohio, USA as post-breeders and part of the Tasmanian Devil ambassador program.

November 2015 – June 2016 Three Tasmanian Devils were sent within the region as per breeding recommendations.

October 2015 – May 2016 Three Yellow-footed Rock-wallabies were sent elsewhere within the region.

SORELY MISSED

December 2015 Our male lion, Leroy, passed away at age sixteen after some chronic health issues.

October 2015 Unfortunately, our female Chimpanzee 'Soona' passed away from birthing complications. Subsequently, her male infant Boon passed away weeks later.

November 2015 'Skukusa', our male Cheetah, which had been used for our ambassador tours was euthanised due to health issues.

November 2015 'Tizga', our beautiful hand-raised Fennec Fox died.

May 2016 One of our male Eastern Bongo died of unknown causes.

July 2015 – June 2016 Eight Barbary Sheep of varying ages passed away this year and for various reasons.

September 2015 / June 2016 One female and one male giraffe died this year.

November 2015 – June 2016 Nine Eland deaths were recorded across our four herds (varying from calves to older animals).

June 2016 We lost an aged Przewalski's horse from our collection.

July – October 2015 Our aged Axis Deer Herd in our Asian Grasslands exhibit died over the past year so we no longer house this species.

January 2016 We saw the death of one of our aged female Scimitar-horned Oryx in our non-breeding group.

July 2015 A male Black-flanked Rock-wallaby warru died.

April 2016 A male Mallee Fowl died.

November 2015 An aged female Fallow Deer died.

May 2016 A female Zebra was euthanised after having chronic condition and mobility issues.

GIRAFFE BREEDING

We commenced Giraffe breeding again with matings occurring during this period and hopefully offspring to be born in mid-late 2017. All Zoos SA staff are keeping their fingers crossed for the pitter-patter of little Giraffe hooves soon!

Southern White Rhinos / Image credit Geoff Brooks





Animal Health

Our core team has remained relatively free from change with flux seen mainly in our casual pool of vets and nurses, although recently we saw the retirement of David Schultz after more than 30 years. In addition to our ever-present laboratory volunteers, we have been joined by our first administrative volunteer who has been instrumental in improving how we manage and document compliance both within the department and in the wider zoo.

We continue to host the Ronald McDonald family program and have seen over twenty families visits during the year. Another prominent visitor included John Cleese who spent some time with our Emperor Tamarins during their quarantine period.

Staff across both sites attended and presented at numerous conferences or workshops, and remained dedicated to the training and supervision of both undergraduate and post-graduate veterinarian university students. We also continued to explore the integration of applied research opportunities into our core duties of managing animal health with animals under our care.

CLINICAL SERVICES

There have been many interesting and challenging clinical cases over the last year.

KEY HIGHLIGHTS FOR ADELAIDE ZOO

An unseasonably warm and wet autumn is thought to have contributed to disease outbreaks in two of our high profile bird species; with air sac mites found in Gouldian Finches and a disease of unknown aetiology causing a mortality cluster in our Orange-bellied Parrot. Recent breeding successes have helped to offset both these losses.

Our aged Binturong has a new lease on life after a liver abscess was diagnosed, and the affected lobe subsequently removed surgically.

A biliary adenocarcinoma was diagnosed in a Hyacinth Macaw, which was tested negative for herpesvirus (a known risk factor). This prompted a widespread serological survey of our parrot collection as a measure of reconfirming our disease-free status in this area.

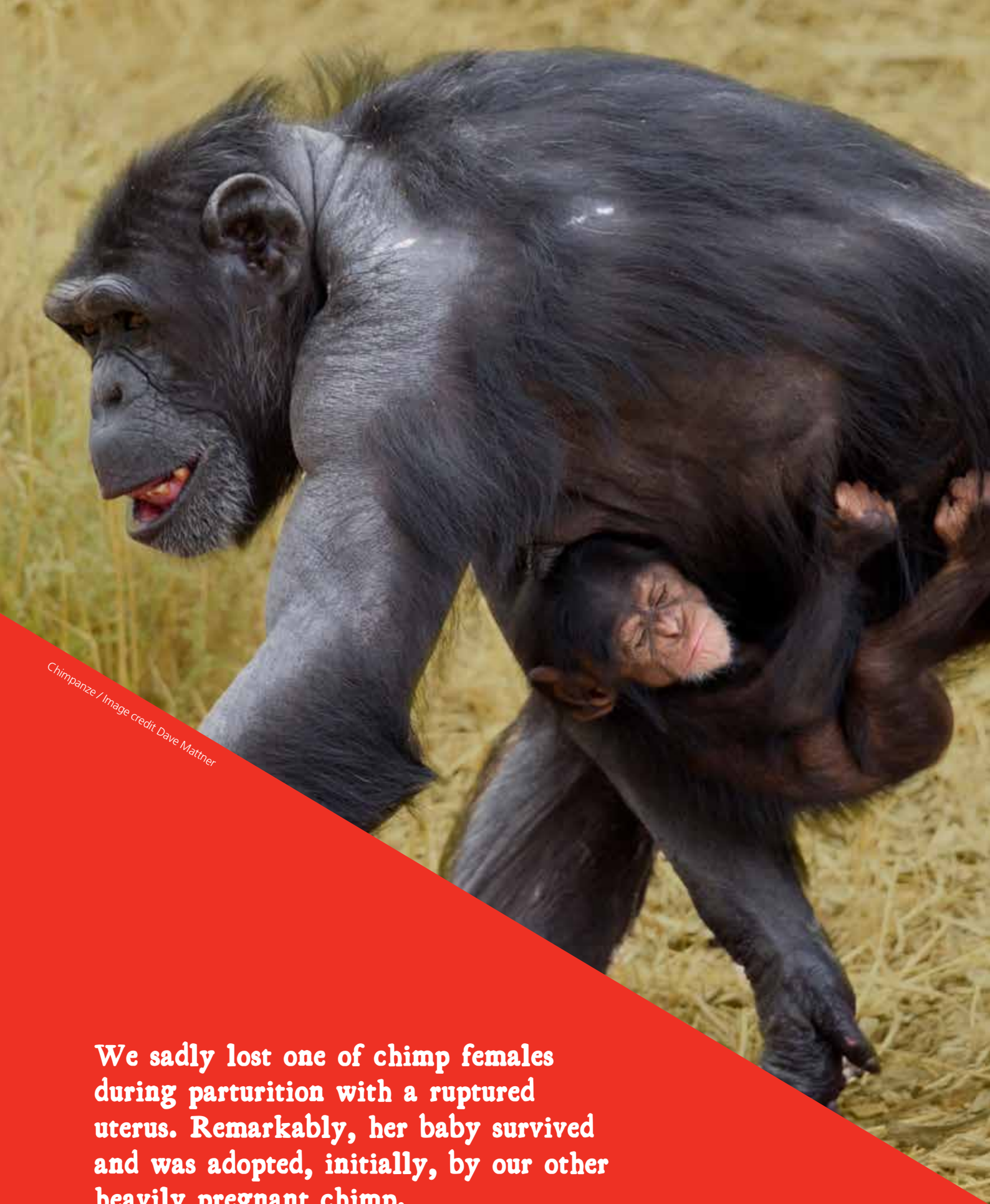
We gave a series of blood transfusion to our breeding male Red Panda who was suffering from a non-regenerative anaemia. This treatment is rarely

curative but is used to allow time for diagnostic workup and treatments to take effect. Unfortunately, the inciting cause was not found in time for them to be of benefit and he was euthanised.

We continue to fine tune our Giant Panda breeding attempts with the pre-oestrous hormonal mapping enabling a technically flawless artificial insemination procedure. So confident were we that we tracked hormones during the expected pregnancy timeframe, with heightened birth preparations enacted: including the development of a Giant Panda replacement milk formula by local company Wombaroo. We also conducted an emergency repair to a fractured tooth in the male Giant Panda with the assistance of dental specialist David Clarke.

We continue to fine tune our Giant Panda breeding attempts with the pre-oestrous hormonal mapping enabling a technically flawless artificial insemination procedure.

We were challenged by the integration of female Baboons into our small established troop. Our boisterous juvenile male became an inciting cause for our breeding males over-reaction, with multiple wounding events of the females the result. Eventually we abandoned the integration and the females have been relocated to another zoo.



Chimpanze / Image credit Dave Mattner

We sadly lost one of chimp females during parturition with a ruptured uterus. Remarkably, her baby survived and was adopted, initially, by our other heavily pregnant chimp.

KEY HIGHLIGHTS FOR MONARTO ZOO

At Monarto Zoo, the indolent eye ulcerations seen in male Cheetahs in recent years has claimed another victim, this time a male hyena is similarly affected.

A juvenile male Przewalski's Horse developed an acute onset ataxia similar to a domestic equid syndrome known as wobblers, he has responded well to conservative management.

Our old male lion was found to have metastatic tumours in his lungs that contributed to his death at the end of last year.

We sadly lost one of chimp females during parturition with a ruptured uterus. Remarkably, her baby survived and was adopted, initially, by our other heavily pregnant chimp. With the youngster becoming weaker we made the decision to remove the baby and provide it with intensive support; the surrogate mother immediately gave birth to her own baby which continues to do well. Unfortunately, the first baby died of a twisted bowel after a period of hand-rearing.

WILDLIFE HEALTH

We continue to receive updates on the rehabilitated eight Sampson Flat bushfire kangaroos which were successfully released onto a private property in September 2015 and have "mobbed up" with the local kangaroos.

Further updates on the hand reared quolls that were returned to the wild tell of one of the females having produced seven offspring in August 2015. We have also become involved in a parallel project with Brushtail Possums being returned to the Flinders Ranges.

We utilised our wildlife expertise to assist a small interstate zoo to facilitate the export macropods internationally.

We continue to be involved in an Australia-wide wildlife surveillance project.

FACILITIES AND EQUIPMENT

A home-made dental gag, based on a designed sourced at a recent vet nurse conference, has contributed to the diagnosis, treatment and resolution of a dental fracture in a Common Wombat.

Our supportive laboratory volunteer group have been fundraising which has allowed the purchase of new patient anaesthetic monitors at both sites and planned expansion of our public viewing areas at Adelaide Zoo.

Microchip scanners have been replaced at both sites with more robust and reliable units.

ETHICS & WELFARE

As a zoo-based conservation organisation with responsibility for the care of animals in our zoos and in the field through our conservation projects, we aim to ensure that our activities are underpinned by high standards in animal welfare that reflect the needs and interests of our animals at all times. The Animal Welfare Charter, introduced in the last financial year, provides a framework that follows the five domain model of animal welfare – nutrition, environment, health, behaviour and mental state, each of which represent areas of potential welfare compromise and, conversely areas where welfare can be enhanced.

We recognise that within a zoo environment we cannot completely replicate an animal's natural habitat but to the best of our abilities we will endeavour to meet their physical, behavioural and psychological needs. An Animal Welfare and Ethics Committee chaired by Dr Ian Smith, with a group of staff and external representatives, meets twice a year.

ACKNOWLEDGEMENTS

Special thanks must go to volunteers Brian Rich, Peter McCarthy, Wayne Rohrig, Brian Matthews and Jenny McInerny, who have continued to provide diagnostic support and nutritional advice to the animal health team. Our thanks are also extended to all the external specialists and service providers: the South Australian Vet School (particularly the Veterinary Diagnostic Laboratory), the Adelaide Animal Hospital, Joan Davey OAM, Dr Andrew Carter from Vetderm SA (part of the Adelaide Veterinary Specialist and Referral Centre), Repromed, Healthscope, Dr Tony Reed and his resident Dr Kellam Bayley from Animal Eye Care, Total Medical Imaging Solutions, Wildlife Health Australia and the Australian Registry of Wildlife Health.

Conservation Projects Beyond Our Gates

Zoos SA has continued its work in conservation programs both nationally and internationally. Our conservation efforts have had great success and seen the development and expansion of our projects – over the last year we have seen world-first breeding and new facilities being built.

Zoos SA's Conservation Directions outlines a framework to help prioritise, support and communicate our conservation efforts. The framework identifies three focus regions:



The Threatened Species Commissioner, Gregory Andrews, and Minister for Environment, Greg Hunt spent some time at Monarto Zoo touring our conservation and native programs. The Commissioner had hands-on encounters with species and programs, including

Pygmy Blue-tongue Lizards, Tasmanian Devils, Bilbies, Bustard, Malleefowl, Black-flanked Rock-wallabies (Warru), the Bretag scrub and our Aboriginal Learning on Country (ALoC) program.

Threatened Species Commissioner, Gregory Andrews with Maureen, the Black-flanked Rock-wallaby / Image credit Alyssa-Jane Tucker





WALLABIES

Over the last twelve months, work has continued across three of Zoos SA's wallaby programs: the Black-flanked Rock-wallaby (or Warru), Yellow-footed Rock-wallaby and Brush-tailed Rock-wallaby. Support of these programs includes a wide variety of activities ranging from feral control and captive breeding, to the monitoring of released animals.

BLACK-FLANKED ROCK-WALLABY (WARRU) KEY HIGHLIGHTS:

Warru Pintji (fenced enclosure) trapping showed the reintroduced population is breeding and thriving.

Success of the program now sees the Pintji reaching holding capacity and Warru recovery in South Australia ready for its next phase outside of the Pintji.

Maureen continues to be an important ambassador for the project and has met with a number of famous faces over the last twelve months.

YELLOW-FOOTED ROCK-WALLABY KEY HIGHLIGHTS:

Conducting regular feral control trips to Aroona Sanctuary, near

Leigh Creek, to provide ongoing management of feral animals such as goats, cats and foxes which impact on the wild Yellow-footed Rock-wallaby population.

Fox baiting was undertaken quarterly, along with one goat eradication trip.

BRUSH-TAILED ROCK-WALLABY KEY HIGHLIGHTS:

Continuing the captive breeding program, with animals from eastern New South Wales introduced to the southern Victorian population to boost genetic diversity of the species.

Changes to the Recovery Team objectives and captive planning has seen cross-fostering being reduced across the program.

RED-TAILED BLACK-COCKATOO

This year, our work continued with local farmers in southeast South Australia to protect and restore stringybark and buloke habitat, the main feeding trees of the southeast Red-tailed Black-cockatoo. Ten new landholders have come on board through our 20 Million Trees grant program. This planting season has seen the hand planting of 6,395 individual tube stock plants across eight sites and the direct seeding of nearly 7kg of native seeds across two sites. The dry spring has been a major challenge to the project and watering of all sites had to be undertaken to compensate for this exceptionally dry season.

KEY HIGHLIGHTS:

Finalising Property Habitat Plans for the new landholders has put the framework in place for long-term success of the revegetation work.

All of the planned site preparation including weed treatments was undertaken.

Providing ongoing support for the landholder network, fostering peer mentoring skills in local communities around Lucindale and Naracoorte.

FROGWATCH SA

FrogWatch SA is a citizen science project that aims to capture information about frogs across South Australia. Through the use of mobile phone and android applications, members of the public are able to record frog sightings and observations, with data collected used to determine trends and the current status of our native frog species.

KEY HIGHLIGHTS:

Lead role in the development FrogWatch SA, resulting in the launch of a dedicated website with mobile phone and android applications.

ALOC

Monarto Zoo's Aboriginal Learning on Country (ALoC) program has continued to be a success within the region. Our team has been involved in a range of biodiversity projects outside of the zoo, including monitoring freshwater turtles in the River Murray and native vegetation restoration projects within the Murray Darling Basin precinct.

KEY HIGHLIGHTS

On-going improvement of onsite remnant vegetation through weeding and pest control activities.

Three school-based trainees and one full-time trainee have commenced working with the Monarto ALoC team.

Undertaking freshwater turtle monitoring along the Murray River at Mypolonga and Wellington.

PYGMY BLUE-TONGUE LIZARD

The Pygmy Blue-tongue Lizard is one of Australia's rarest reptile species. Found only in South Australia, it was considered extinct until its rediscovery in the mid-north of the state in the early 1990's. Zoos SA's role in the recovery effort for this unique lizard, which lives in disused spider burrows, is to investigate its captive husbandry and breeding requirements.

KEY HIGHLIGHTS:

World first captive breeding of the Pygmy Blue-tongue Lizard with 14 babies being born at Monarto Zoo during January 2016.

Construction of a second purpose-built research and breeding facility has commenced at Monarto Zoo.

Establishment of a new breeding facility at Adelaide Zoo to complement research being undertaken at Monarto Zoo.

MALLEE EMU-WREN

The Mallee Emu-wren is one of Australia's smallest birds, weighing in at just 4g. Their habitat has been lost in South Australia through large fire events, and there is little remaining habitat in Victoria. Zoos SA is engaged as part of a wider Threatened Mallee Bird Conservation Action Plan Implementation Team which is driving conservation and management priorities for a number of mallee birds. One of the priorities is establishing the captive husbandry for the Mallee Emu-wren.

KEY HIGHLIGHTS:

Funding acquired for purpose built aviaries.

New aviary construction commenced at Monarto Zoo.

Rotary partnership has seen volunteers assist with the pre-fabrication and onsite build.

WESTERN SWAMP TORTOISE

The Western Swamp Tortoise is globally considered one of the rarest freshwater turtles, with fewer than 30 individuals remaining in their natural habitat in the 1980's. Found only in a small number of ephemeral swamps on the Swan Coastal Plain in Western Australia, Zoos SA is one of two institutions working on a captive breed for release program.

KEY HIGHLIGHTS:

Adelaide Zoo's breeding colony yielded three hatchling tortoises which are all doing well.

Infrastructure at Adelaide Zoo has been upgraded and construction of a breeding facility to complement Adelaide's efforts has commenced at Monarto Zoo.

ORANGE-BELLIED PARROT

The Orange-bellied Parrot is considered Australia's rarest bird species. Fewer than 30 birds have returned to Tasmania's rugged south west wilderness region from the Australian mainland in preparation for the 2016 breeding season. Zoos SA is part of a collaboration of zoos, sanctuaries and aviculturists that have been charged with the responsibility of safeguarding a captive insurance population, and breeding birds for release back into their natural habitat in an effort to prevent extinction.

KEY HIGHLIGHTS:

Adelaide Zoo successfully fledged six young birds.

Representation on a veterinary specialist group formed to respond to an outbreak of beak and feather disease.

STRIPED LEGLESS LIZARD

The Striped Legless Lizard is a grassland specialist that has suffered major habitat loss and fragmentation and, along with other emerging threats, has resulted in a rapid decline in this species across its distribution. Zoos SA is monitoring the wild population to determine the status of this rare lizard and build our knowledge about this species. Field survey sites were established on a combination of crown and privately owned land and were monitored for Striped Legless Lizard presence.

HIGHLIGHTS

Fourteen Striped Legless Lizards were captured, allowing valuable data and measurements to be recorded.

Two White Lipped Snakes, which are rare in South Australia, were also recorded, as were a number of other reptile species during survey visits.

INTERNATIONAL CONSERVATION SUPPORT

In addition to our native programs, Zoos SA provides conservation support on an international level. Projects receiving this support have a focus on protecting habitats, the species in them and working with local communities. Over the past 12 months, we have continued our conservation support for ecosystems associated with the following areas: the African Tropical Rainforests, African Rangelands, China's Sichuan Province and Tetepare, Solomon Islands.

KEY HIGHLIGHTS:

Providing ranger support in Africa's rangelands in Sera Conservancy, Kenya. The presence of the rangers in these areas is reducing poaching and protecting a range of species including rhinos.

Supporting alternate livelihoods in Sera Conservancy, Kenya.

Supporting conservation education and undertaking wildlife research and conservation through Chipembele Wildlife Education Trust.

Supporting the Zambian Carnivore Program in conducting wildlife research and conservation activities.

Supporting a range of conservation, research and infrastructure projects

in China, as part of Giant Panda conservation efforts.

Supporting Tacugama Chimpanzee Sanctuary to continue and expand their community outreach programs.

Supporting community conservation through education in Tetepare, Solomon Islands, where locals are protecting an island and the surrounding marine environment.

Supporting the Cheetah Conservation Fund to protect Cheetah in their natural environment.

Supporting SANParks Rangers to undertake anti-poaching activities in Kruger National Park.



Connecting People with Nature

ZOO LEARNING

The Zoo Learning Team works with teachers and students from preschool to Year 12, developing and delivering education programs to inform, inspire and connect people with nature. In 2015/16, more than 58,000 students, teachers and care givers attended Adelaide and Monarto Zoos during the school terms, up from 51,000 last financial year.

The Zoo Learning team consists of a new role of General Manager, which began in February 2016, three educators, administration staff and nine casual educators that support overnight and school holiday programs. The team also includes one Department of Education and Child Development (DECD) Education Manager, at Monarto Zoo. These positions are funded to create quality learning experiences for early to senior year educators and students by bringing together Australian Curriculum requirements, effective teaching and learning techniques and the unique resources available at Adelaide and Monarto Zoos.

Major projects in 2015/16 included adapting learning experiences to digital technologies, including an iPad Adaptation Adventure, and the development of three iBeacon discovery trails for Careers and Threatened Species.

2016 saw the inaugural Youth at the Zoo (YATZ) group take on a yearlong program. YATZ is a collaboration between the Zoo Learning and Volunteer divisions of Zoos SA. As part of the YATZ program, a conservation educator and volunteer mentors support a group of young people to develop conservation and leadership skills, manage Zoos SA campaigns and advocate for Zoos SA conservation priorities in the community.

During the Christmas period and April school holidays, Out of School Hours Care visitation improved dramatically at Adelaide Zoo following a targeted campaign earlier in 2015.

Zoo Learning published a calendar in late 2015 which was distributed to more than 1000 schools and preschools across South Australia. The calendar promoted a new approach to learning experiences called Focus Programs. Focus Programs last between one to four weeks. So far

in 2016, programs such as My Cubby Rules at Monarto Zoo and Arts at the Zoo at Adelaide Zoo have proved very popular, attracting a new group of Zoo Learning devotees.

The Monarto Zoo Learning Make a Difference campaign has worked closely with Zoos SA Marketing and Conservation departments to develop actions which students in their communities can undertake for conservation (including fundraising for Zoos SA). School groups visit Monarto Zoo and learn about important animals and environmental themes, and are then able to go back to their communities to take action for conservation.

Marketing and Public Relations

The marketing and public relations team continued to expand the reach of Zoos SA and create increased awareness of our conservation work. Targeted marketing and public relations continued to support key revenue-raising activities such as admissions, animal experiences, membership and fundraising.

An integrated marketing approach continued with the use of multiple platforms including traditional media and paid print, television, cinema, radio and online advertising. This financial year, major advertising activity included general attendance driving campaigns such as 'Share the Wonder', the promotion of the new Nature's Playground and school holiday programs including Kung Fu Panda during the April holidays. Over the year, marketing efforts were focused on reworking and simplifying our membership positioning to better attract and retain members. This included the rebranding our fundraising and membership programs and launching the Wildlife Guardian



initiative. These efforts were supported through various direct mail campaigns at strategically set times during the year. Additionally we launched our brand new conservation icons which are displayed on some of our brand new species signs at Adelaide Zoo.

Our website continues as a key communication channel with over 1.1 million visits during the last twelve months, a 29% increase on last year. In addition, our active email subscriber database consists of over 40,000 subscribers and remains a powerful marketing tool. Over the year, our email database grew by 8.2%.

The public relations team continued to attract significant free media and publicity through both traditional and digital media. Zoos SA reached over 73 million people over the year via traditional media which equates to \$6.9 million of media value. Zoos SA's

digital audience and use of digital platforms grew substantially throughout the year. Our organisation now enjoys a strong, active and growing social media audience of over 100,000 supporters, including over 60,000 likes on the Adelaide Zoo Facebook page and over 16,000 likes on the Monarto Zoo Facebook page. Commitment to high-quality, conversational style social media posts carrying simple yet engaging conservation messages stimulated public awareness of the zoos' activities. Instagram was a focus for the year, amassing more than 4,000 followers on the platform. Central to our success on Instagram was showcasing high quality and beautiful imagery to encourage visitation and create daily marketing touch points for our audience.

Our website continues as a key communication channel with over 1.1 million visits during the last twelve months, a 29% increase on last year.

New species signs at Adelaide Zoo



Fundraising

As a conservation charity, we are exceptionally grateful to all of our supporters for their contributions whether large or small, every cent makes a difference and helps save species from extinction and connect people with nature. The ongoing generosity of the community has enabled us to continue our valuable breeding and conservation programs both within our zoos and further afield.

This year, individual fundraising support was received from 16,081 households, up from 14,540 in 2015. These households have supported us as members, animal adopters and occasional donors. Some have been loyal supporters for many years; however we have also experienced strong growth in new supporters with 5,996 households joining us for the first time this year.

Zoos SA also aligns itself with corporate partners that are respected within their industries, have a strong community focus and are committed to a sustainable future for our natural world. Corporate partners provide both cash and in-kind support for a number of projects and programs across both sites and we are grateful for their support, and also the opportunities afforded to us through their networks as well.

Support from the corporate sector continues to grow, with a significant increase of both corporate partners

and fundraising income in the 2015/16 financial year. This was in the main thanks to the generosity of many organisations which chose to be involved with the first of the Zoos SA Master Plan developments – Nature’s Playground at Adelaide Zoo.

We also acknowledge the annual funding support provided by the South Australian State Government, and the significant contribution from Westpac in the fourth year of support as our Principal Partner.

INDIVIDUAL GIVING KEY HIGHLIGHTS:

Launch of Wildlife Guardians regular giving program to encourage supporters to adopt an animal or commit to conservation on a monthly basis.

Launch of the Circle of Life program for supporters who have chosen to leave a gift in their Will to Zoos SA.

The end of financial year appeal promoted the need to continue Levi and Leroy’s legacy with a new big cat breeding program at Monarto Zoo.

Approval by TelethonSA to raise funds through the TelethonSA Movie Cards and Home and Land Lottery in 2016/17.

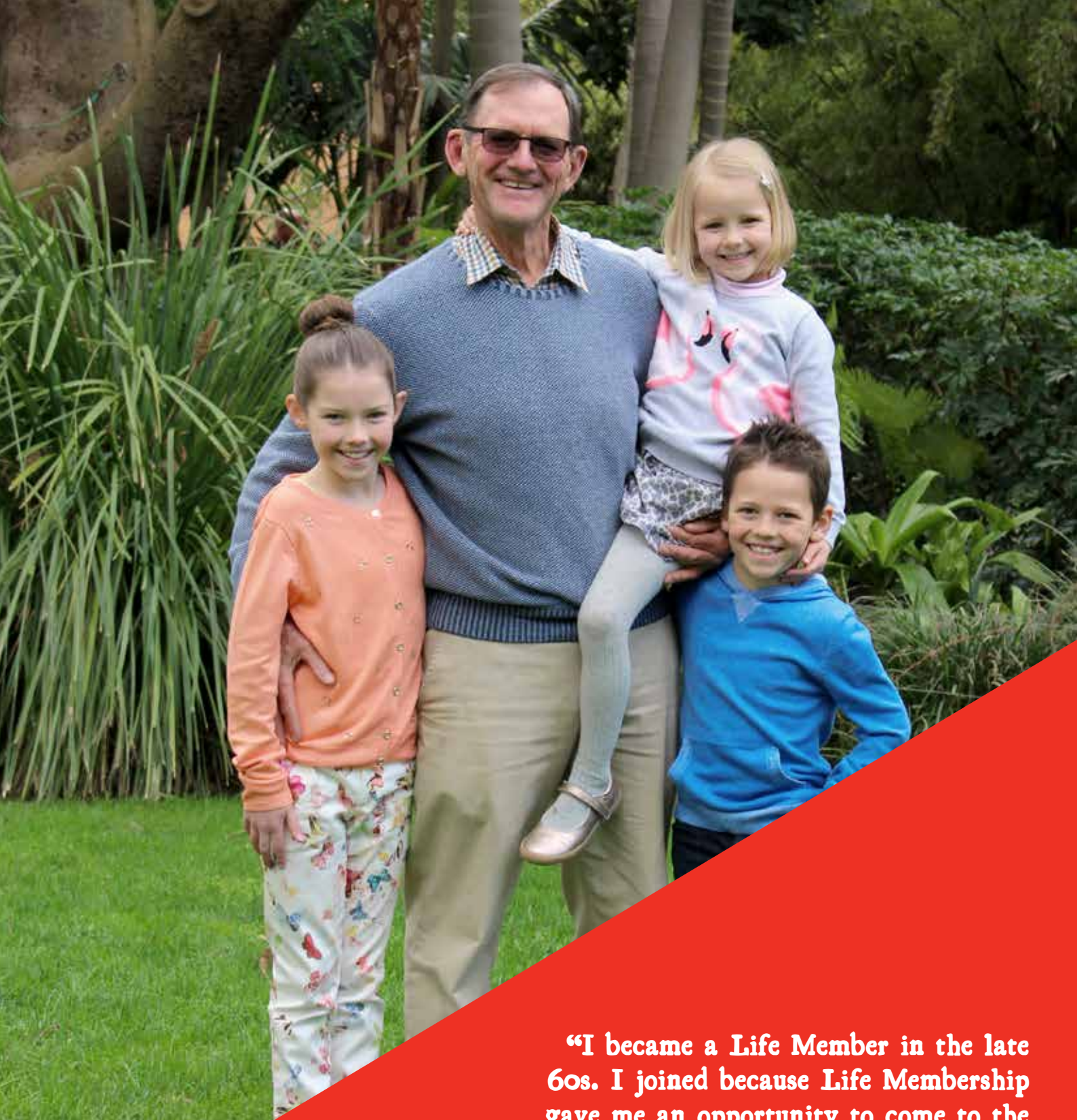
CORPORATE PARTNERS KEY HIGHLIGHTS:

AGL national TV and print promotion of the solar power solution in place at the panda exhibit at Adelaide Zoo.

Channel 9 announced as Zoos SA’s media partner with an annual zoo based documentary to be produced as part of the partnership.

Support from ColourBlind Films to produce a number of short films during the year.

Soil analysis technology and support provided by Sentek Technologies in order to monitor water usage on the Central Lawns at Adelaide Zoo.



“I became a Life Member in the late 60s. I joined because Life Membership gave me an opportunity to come to the zoo regularly, as well as be able to visit interstate zoos for free. I gave my grandchildren the gift of Life Membership so as to give them and their parents (using the transferable membership) an incentive to visit the zoo and see the animals they see in the media up close!”

– Tim, Zoos SA Life Member

FUNDRAISING ACTIVITY	2015/16 \$	2014/15 \$	DIFFERENCE
Corporate Sponsorship	689,519	309,435	380,084
Corporate in Kind Sponsorship	1,302,682	830,119	472,563
Fundraising Major Gifts	148,550	47,000	101,550
Appeals and Donations	129,063	108,444	20,619
Animal Adoption	168,540	177,515	-8,975
Sundry Income	0	0	0
Bequest	752,500	1,531,798	-779,298
Total	3,190,854	3,004,311	186,543

MEMBERSHIP

Membership numbers reached the milestone of 40,000 in January 2016 following the opening of Nature's Playground at Adelaide Zoo. This development has encouraged a significant number of new members to join Zoos SA and make the most of their membership on a regular basis by simply popping in for an hour or two. The development has also reengaged a number of previous members who have now re-joined.

We also launched our new, free Cub Membership for the under 4's so they can now also hold a member card and have a special lanyard – 2,400 little cubs are already on board.

Our existing Corporate Membership product was expanded to include groups and associations, and renamed as Group Membership. More than 2,000 members became part of the Zoos SA family through the Group Membership program.

Renewal rates for membership have seen another successful year with 78% of existing members remaining with the zoo family – an organisation high! Membership income exceeded the previous year by 6%.

Life membership continues to be a great gift idea, with many grandparents choosing to give the gift that keeps giving. Zoos SA values its 2,619 Life Members and looks forward to welcoming more in the next financial year.

MEMBERSHIP NUMBERS	2015/16	2014/15
Companion, Honorary Associates and Conservation Friends	35	35
Life	2,619	2,374
Annual	37,494	31,771
Group	2,382	1,862
Total	42,530	36,042

MEMBERSHIP INCOME	2015/16 \$	2014/15 \$	DIFFERENCE
Annual Membership	2,388,553	2,255,331	133,222
Life Membership	477,716	387,186	90,530
Total	2,866,269	2,642,517	223,752



“I want to make sure that future generations get to enjoy some of the amazing sights and experiences I have whilst being involved with the zoo.”

– Keith, long-term supporter of Zoos SA.



“We started adopting a Tasmanian Devil at Adelaide Zoo because we want to ensure that we can help save the species from extinction.”

– Amanda and Daniel, Zoos SA Wildlife Guardians.

Visitor Experience

During the 2015-16 financial year, the organisation continued to strive to enhance visitor experience by delivering infrastructure upgrades and creating new animal encounters and behind the scenes experiences.

The 2015–16 financial year saw the opening of the fun and inspirational Nature's Playground at Adelaide Zoo. The new play space, designed to create unstructured play for children of all abilities, forms a unique area within Adelaide Zoo where families can play and discover the gifts of nature. This new addition, catering for a range of ages and abilities, has been extremely well received by casual visitors and members, and provides an additional value-add experience to engage our visitors and connect them with nature.

The Nature Theatre team continued to offer regular shows and presentations, including at Adelaide Zoo the addition of daily scheduled Wild Show animal experiences and encounters with nature at a range of locations and times throughout the day.

At Adelaide Zoo, we launched a daily Giraffe Feeding experience in January 2016, offering visitors of all ages the opportunity to interact and feed a Giraffe. This has proven to be highly popular.

To ensure Zoos SA is able to continue to meet visitor and member needs, Zoos SA has invested in a new ticketing system, Galaxy, to be implemented early in the 2016–17 financial year. This long term investment will offer a wide range of benefits for visitors, stakeholders and employees.

In 2015–16, the organisation proudly donated approximately \$32,317 in free-of-charge admissions tickets and behind the scenes animal experiences and encounters to a number of South Australian community groups and charitable organisations. Zoos SA participated in a number of community events offering discounted entry rates and events for a range of community events, including a Special Children's Christmas Party and Playgroup SA Day.

From a venue hire and functions perspective, the organisation had a very successful year with more than 55,264 people attending zoo functions at Adelaide Zoo over the course of the year.

In addition, close to 12,000 people participated in one of the many Zoos SA animal experiences and brief encounters available at our sites. Significant booking increases were recorded for the Chimpanzee and Rhino experiences at Monarto Zoo following recent births. At Adelaide Zoo, the Big Cats and Hippo encounters proved to be the most popular behind the scenes experiences in the 2015/16 financial year.

Significant booking increases were recorded for the Chimpanzee and Rhino experiences at Monarto Zoo following recent births.



TOTAL ATTENDANCES FOR THE LAST FIVE YEARS*

15/16	14/15	13/14	12/13	11/12
566,397	527,500	516,759	456,067	450,612

MONARTO ZOO	2016	2015	VARIANCE
Admissions	71,607	69,991	2.3%
Education	11,416	11,925	-4.2%
Members	35,893	28,106	27.7%
Other	14,783	13,367	10.5%
Total	133,699	123,389	8.3%

ADELAIDE ZOO	2016	2015	VARIANCE
Admissions	198,003	200,250	-1.1%
Education	46,656	39,303	18.7%
Members	151,641	127,709	18.7%
Other	36,398	36,849	-1.2%
Total	432,698	404,111	7.07%

*These figures capture total ticketed admissions and exclude any additional functions and events e.g. – weddings, corporate events, Boo At The Zoo.

SPECIAL ADMISSIONS PRICE OFFERS

Zoos SA provided a range of special offers over this year to offer great access to both zoos:

SPECIAL ADMISSION PRICE OFFERS

There have been a range of special offers over this year to provide greater accessibility to both zoos:

Mother's Day – Mums Go Free.

Father's Day – Fathers Go Free.

Provision of free child pass with Out of School Hours Care visits to encourage repeat visitation.

Half price entry on the afternoon of the Special Children's Christmas Party.

Two Zoos Pass (offering 50% off the visit to the other zoo – Adelaide Zoo or Monarto Zoo – if purchased on day of visit).

Entertainment Book – a voucher for each site included in 2015/16 Entertainment Book offering 25% off entry for up to four people.

Disadvantaged group prices.

Special days for community groups and other charities such as Paraquad Days, Alzheimer's Association, Special Children's Christmas Party, Playgroup Day, Novita Walk with Me.

KEY EVENTS AND ACTIVITIES

MONARTO ZOO RUN

The inaugural 'Zoo Run' fundraiser at Monarto Zoo was coordinated with *Wildlife Emergency*, a philanthropic family from the Gold Coast, was held on Sunday 2 August 2015. The run was held prior to the zoo opening and offered a 5 and 10K walk and run option for participants. The run attracted 208 participants and 48 spectators, raising almost \$4000 for Zoos SA native conservation programs.

MURRAY BRIDGE CHRISTMAS PAGEANT

Monarto Zoo participated in the 2015 Murray Bridge Christmas Pageant for the first time in a number of years. The pageant provided an opportunity to further engage with the local Murraylands community. Zoo staff, volunteers and family, including a range of Monarto Zoo representatives (in the form of Rhinoceros and Lion mascots), and truck transporting a life size Rhino statue represented the Zoo.

BOO AT THE ZOO

Boo at the Zoo has grown into a flagship annual event held at Adelaide Zoo to celebrate Halloween. It has become one of the biggest family Halloween events in Adelaide and offers a safe and family-friendly environment. The event was a sell out with over 3500 people attending on a perfect spring evening. New sponsors for the event included Adelaide Central Markets, Roborn Menz, and Romeos Foodland, while continued sponsorship was received from Kytons Bakery, McDonalds and Channel Nine.

WESTPAC TEDDY BEARS PICNIC

The second family Westpac Teddy Bears Picnic with a focus on the Giant Pandas and their birthdays was held at Adelaide Zoo on Sunday 30 August 2015. The event included a number of free children's activities for members and

visitors throughout the day, including children's musical entertainment, craft activities, Bear Quest, competitions, and Teddy Bear Hospital including asthma health checks thanks to Asthma SA.

WESTPAC FATHER'S DAY AND MOTHER'S DAY

In conjunction with The Advertiser and Sunday Mail, Zoos SA offered parents the chance to visit Adelaide and Monarto Zoo for free with one paying customer. In addition to free entry, dad and mum received free Haigh's Chocolates, massages, and children's craft activities during their visit. On Mother's Day, Adelaide Zoo joined forces with the South Australian Apiarist Association to celebrate all things 'Mother Bee' with free honey tasting, enclosed bee hive displays, information and advice. Monarto Zoo offered a Play Day focusing on the many new animal mums at Monarto over the preceding twelve months.

SCHOOL HOLIDAYS

The winter 2015 school holidays program focussed on the 'Art of Animals - Blend or Bling'. At both zoos, children received a trail map to follow their way around the zoo and find the blend or bling Wallabies images. Children received their own Wallaby sticker on completion of the activity. 'Drawing From Nature' children's art classes were offered to members by the Nature Theatre team on four occasions over the holiday period. These were highly successful and extremely well received.

For the spring school holidays, children were invited to travel the world through some of our zoo animal inhabitants via a series of 'border control' checkpoints around each zoo. Children learnt about the country of origins for a number of our animals and received stamps in their zoo passport.

With the opening of Natures Playground at Adelaide Zoo, the summer 2015/16 school holiday program focused on animal play. Children were given a guide to Animal Play at both sites with information correlating with various zoo animals and methods of play. All play could be replicated in our playground at Adelaide Zoo. At Monarto Zoo, we celebrated baby animal play following a number of recent births.

For the autumn 2016 school holiday program, Adelaide Zoo joined forces with DreamWorks and 20th Century Fox to bring Kung Fu Panda 3 to Adelaide Zoo. Children received a 'martial arts' headband decorated with zoo animals, and information on how those animals practiced self-defence in the wild. A large Po (panda) statue stood in the Adelaide Zoo Orientation Zone providing a 'selfie' opportunity and encouraging visitors to upload images

to our Facebook page for the chance to win a private 'Panda and Friends' experience. The overall winner had over 1,000 likes. Zoos SA also contracted Adelaide Wing Chun Academy to run free Kung Fu workshops on the Central Lawns, for visitors and members, seeing large numbers each day. Monarto Zoo followed the same theme with visitors receiving a 'martial arts' headband featuring five Monarto zoo animals and their self-defence skills.

In addition, a wide range of additional Keeper Talks and Presentations were offered at both zoos during the school holidays.

Bunnings offered children's craft workshops in the Children's Zoo Barn Contact Area on weekdays throughout the spring, autumn and winter South Australian school holidays.

Brutus, the Hippopotamus is enjoying this Halloween-Treat.



An Advancing Organisation



OUR PEOPLE

STAFF

Zoos SA's passionate and capable workforce recorded many positive achievements through the 2015/16 financial year. Through the continued implementation of the Zoos SA People Plan, we have been able to continue to build on our workforce capabilities.

Conservation passion continues to grow from strength to strength with each of us sharing and imparting Zoos SA's mission to save species from extinction and connect people with nature by engaging with our visitors to build on conservation initiatives.

PEOPLE PLAN

The Zoos SA People Plan has continued this financial year and has achieved solid outcomes against the five key objectives within the workforce framework - attraction and retention, engagement and performance, workforce well-being, and workforce efficiency and effectiveness. Revised and new programs supported by well-developed implementation programs have enabled us to gain rewarding results and improvements.

Key achievements:

Third Staff Survey completed.

Continuing with policy development.

Significant gains in completion of Performance Development Plan (PDP).

We have met the KPIs for advancing our organisation:

TARGETS	15/16 ACHIEVEMENT
80% staff report they are engaged or very engaged with Zoos SA's direction	94% are engaged or very engaged with Zoos SA's direction
75% staff report they are satisfied or very satisfied working for Zoos SA	74% are satisfied or very satisfied working for Zoos SA
80% staff report applying workplace training	94% of evaluations report training was relevant to role and will be applied in the workplace



Sumatran Tiger / Image credit Adrian Mann

WORKPLACE HEALTH AND SAFETY

We are continuing to focus on the fundamentals of Workplace Health and Safety (WHS), ensuring compliance training is completed and employees are inducted. Specific training undertaken this financial year in the WHS area has been:

- Contact Officer: refresher training
- WHS new starter inductions
- Provide First Aid
- Asthma Emergency First Aid
- Anaphylaxis Emergency First Aid
- Remote First Aid
- Bike safe: be seen
- Warm up for work
- Firearms practice
- Skin check tool: skin cancer early detection
- Job Safety Analysis Training
- White card training
- HSR Year 1, 2 & 3
- Monarto Zoo Fire Safe staff awareness
- Cross-site staff Fire Safe training
- Chemical awareness
- How to write a Job Safety Analysis
- Retail Manual Handling e-learning
- Drill to prepare for an emergency situation with a dangerous animal involved

We ran our first Zoos SA Safe Work Week in October 2015 with a program of activities at Adelaide and Monarto Zoos covering:

- Injury management
- Sun smart
- Organisational awareness: mental health in the workplace
- Nutrition
- Relaunch of our Employee Assistance Program and the additional wellness programs on offer

Ongoing close management of our workers compensation liability through early notification and intervention, continues to drive a culture of early reporting, which in turn is providing financial benefits to the organisation in reduced costs. The strong relationship with our fund managers, Gallagher Bassett, continues to support our results by reduction in our claims over the financial year. Our average cost per claim is \$2,526, and we are managing to return employees to pre-injury duties on average within four days.

LEARNING AND DEVELOPMENT

A structured Learning and Development program has been driven from our Performance Development Plan (PDP) development needs. Zoos SA employees have participated in a range of training programs this financial year:

- Corporate Induction
- ZIMs Animal records
- Performance Development Plans
- Certificate 3 in Captive Animals
- Values workshops
- Drug & Alcohol procedure e-learning
- Kiosk
- Exhibit design
- Zoos SA Educators professional development day

Management specific sessions have been delivered on:

- Performance Development Plans and training needs analysis
- Policy and procedure writing
- Chairing meetings
- EAP Manager Assist Program
- People Leader Values Workshop
- Presentation skills
- Assertive Communication
- Mental Health First Aid
- Drug and Alcohol procedure: how to manage
- Project Management
- Risk Management
- PDP new reporting and filing procedure
- Negotiating relationships with volunteers
- Kiosk for managers
- Return to Work - Work cover responsibilities
- Running Effective Meetings

ACCREDITED TRAINING

- Certificate 3 in Captive Animals
- Certificate 3 Conservation Land Management
- Certificate 4 in Vet Nursing
- Auditor training

PERFORMANCE DEVELOPMENT PLANS

Our effectiveness in the PDP process continues to grow and improve, with two PDP reviews conducted each financial year and more than 92% of our workforce having a current PDP. Organisational values continue to be part of the program to explore how our employees demonstrate organisational values in their day-to-day working life, documenting how they conduct themselves and the support overall visitor experience at our sites.

‘AQUATIC TEAM CHALLENGE’

The “Aquatic Team Challenge” was a Life Be in It program to encourage people to get active at their own pace! The program recorded your performance on the first swim, and from there participants worked on improving the distance they swam or the time it took to swim either 500m or 1km. Zoos SA had two swim teams which participated from April through to the end of July for 2015-16 financial year.

SOCIAL CLUB

The Zoos SA Social Club has a growing membership, with 78 financial members.

The events held over the last year include:

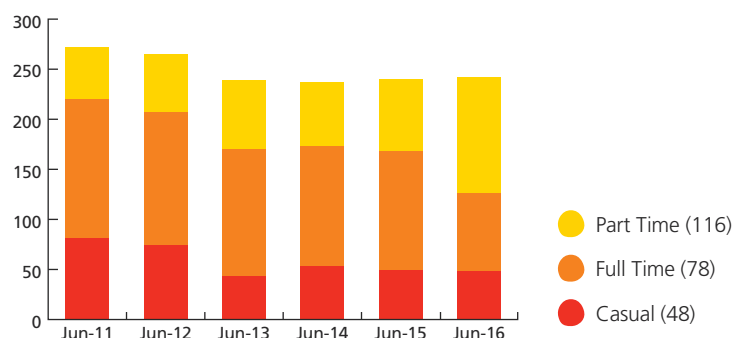
- Bounce trampoline and dinner event
- Christmas function at Sidewood Winery
- Zoolander movie night in Botanic Gardens
- Easter gifts for Social Club members
- Pizza lunches at both sites
- Discounted tickets for members for attendance to the Cheetah and Orangutan fundraiser dinners

The current Social Club Committee objectives include:

- Offering a range of different activities including support for conservation events
- Increasing membership of the Social Club at Monarto Zoo
- Maintain a Social Club calendar to ensure a spread of events across the year

The Social Club Committee is the go to group if help is needed for BBQ events and will continue to hold and support functions that build engagement within the Zoos SA workforce. The 2016–17 year is looking bright for the Social Club with some creative new ideas and benefits for members.

EMPLOYEE STATISTICS



EMPLOYEES PER DEPARTMENT AS OF 30 JUNE 2016	FULL TIME	PART TIME	CASUAL	TOTAL
BOPS	21	39	37	97
Corp Services	5	3	0	8
LS	79	33	11	123
CPS	8	2	0	10
HR	3	1	0	4
Total	116	78	48	242

Volunteers

Always smiling, always friendly, our volunteers are an integral part of the Zoos SA family, helping to connect our visitors with nature.

Zoos SA is a truly unique volunteer experience. Our amazing 600 strong volunteer group forms an indispensable part of the zoo team, working across our two sites in 17 programs, performing a variety of duties ranging from guiding visitors, providing information and support at exhibits and information booths, creating behavioural enrichment treats for animals, assisting with horticulture and maintenance, monitoring animal behaviour and assisting with educational activities and zoo events. The past year has seen our volunteers assist in a number of events including the sell-out Boo at the Zoo event and Teddy Bears Picnic.

Our volunteers contribute many thousands of volunteer hours to Zoos SA valued at close to \$3 million dollars. The passion and focus of our volunteers continues to inspire us, and the many, many hours committed to fundraising is invaluable to the organisation. The total fundraising efforts from volunteer activities resulted in \$47,100 being raised for zoo projects.

The past year has seen our volunteers assist in a number of events including the sell-out Boo at the Zoo event and Westpac Teddy Bears Picnic

2015–16 has been a year in review for our volunteer programs. Over the last 12 months, our volunteer management team have undertaken an extensive review of all programs to ensure they are current, meet changing business and volunteer needs. We

have reviewed recruitment and training programs and continue to roll out the outcomes of the volunteer survey completed last year to improve the satisfaction and engagement with our amazing volunteers, and to meet National Volunteer standards. We have continued to work with the University of SA on a series of surveys with past and present volunteers to improve our volunteering program.

KEY HIGHLIGHTS

The Volunteer Representative Group was able to distribute \$64,000 in grants to Zoos SA projects as a result of volunteer fundraising efforts at Monarto and Adelaide Zoos. The bulk of the grant funding was contributed to the Nature's Playground development at Adelaide Zoo – a total of \$48,300. \$12,000 was also contributed to the Mallee Emu-wren and Western Swamp Tortoise conservation project at Monarto Zoo.

The annual President's Award for Volunteer of the Year was presented during National Volunteer Week celebrations. This year's deserving recipient was Sue Swalling from Monarto Zoo. Premier's Certificates were also distributed to five volunteers for outstanding contribution to volunteering at Zoos SA.

Zoos SA invested in the appointment of a part-time Volunteer Training Officer to assist in the review and delivery of our comprehensive volunteer training programs, and the recruitment and retention of volunteers.





Sustainability Now Business as Usual

As an organisation, we are committed to working ethically and sustainably while influencing others to follow our example.

With our business' reliance on natural resources and as leaders in species conservation and environmental education, we are in a unique position to showcase environmental sustainability and inspire our visitors to take action in their own lives.

To achieve this, we have been managing our inputs and waste to lighten our environmental footprint, linking our actions with conservation messages

and icons, and supporting ethical businesses through purchasing and service arrangements.

SUSTAINABILITY

Zoos SA Environmental Management Plan (EMP) continues to deliver positive outcomes by integrating sustainability into its everyday business operations across all divisions. The EMP is closely aligned with the Zoos SA Strategic and Business Plans, containing an action plan targeting key sustainability objectives and setting yearly goals through to 2017. A recent EMP review highlighted that 82% of planned actions have now been completed which is a

fantastic achievement and puts Zoos SA in a good position to achieve its sustainability targets.

Zoos SA continues to work with key organisations, including Zero Waste, SA Water, AGL, Sentek, Veolia Environmental Services and the University of South Australia on sustainability initiatives. This year, Zoos SA undertook a further two pilot programs evaluating cutting edge sensing technologies for water and energy management.

WATER

During the period, mains water usage has increased by 3.5% which is not necessarily a negative as some of the growth can be attributed to an expansion of operations through increased project infrastructure, collection development and increased visitation across both properties. The record breaking heatwaves that were experienced last summer were also a contributing factor as more water was needed for animal cooling and irrigation.

The SA Water Smart Water pilot program (real time water monitoring) was an outstanding success. SA Water is now offering the service to all business users across South Australia and Zoos SA has adopted the technology for its own operations.

Another pilot scheme for water sensing technology was initiated October 2015 in partnership with Sentek. Sentek is a South Australian company that designs,

manufactures and exports cutting edge soil moisture sensing technology worldwide. The central lawn was chosen as a case study due to its poor condition and high value, with data collected during the irrigation season highlighting significant over watering which was corrected to match soil needs. Key outcomes from the pilot have been improved amenities, reduced water consumption, and financial savings. Zoos SA plans to further expand the pilot and this financial year will see two more areas supported by the technology. The outcomes of the pilot program and associated technology are also being shared with other zoos across Australia.

WASTE

We are now three years into our integrated waste management and cleaning contract with Veolia Environmental Services and resource recovery across both sites continues to improve. This year, we saw a modest 0.8% increase in our recovery rate, which brings our overall diversion from landfill to 85.9% just 1.1% short of our 2017 sustainability goal of 87%.

New custom bin graphics designed to improve source separation have recently been rolled out across both properties and it is hoped that this will help with our sustainability efforts and delivery of targets.

ENERGY

Energy consumption for this year has marginally reduced by 0.14%. The energy reduction initiatives implemented last year managed to offset the extra load required for operational needs arising from infrastructure upgrades,

projects and collection development. The record breaking heatwaves that were experienced last summer challenged our ageing cooling infrastructure, which is generally rated for a maximum of 38 degrees.

Even though our energy reduction seemingly plateaued, it should be noted that we are still on target for our Business Plan goal of a 10% reduction in energy use by 2017. This year, we hit a reduction rate of 8.9% from our benchmark year of 2012 which is encouraging.

A highlight event for Zoos SA last year was the implementation of a solar power purchasing agreement (PPA) with AGL for 220kW of solar infrastructure across Adelaide and Monarto zoos. The solar PPA has no upfront costs, is cost positive from year one and will be fully owned by Zoos SA after 7 years thereafter providing substantial financial savings.

CARBON

Zoos SA is committed to reducing its carbon footprint and in 2014 a carbon reporting framework was established to measure our emissions. This year our carbon footprint has further reduced by 4.6%, which equates to 75 tonnes of CO₂-e. The reduction was achieved by the sub-metering of energy used by third party entities that are not within Zoos SA's carbon reporting boundaries.

Achieving reductions in carbon is very challenging due to the nature of our business and potential impacts to animal health and welfare. The implementation of the solar power purchasing agreement with AGL for 220 kW of solar infrastructure at both Adelaide and Monarto is expected to reduce our 2016/17 carbon footprint by 14% and also ensures that Zoos SA meets its renewable energy target of 25% by 2018.

Assets and Horticulture

Over the past twelve months, the assets and horticulture teams have been focused on maintaining and upgrading current infrastructure and grounds.

Both departments have been working closely with the wider organisation to update existing exhibits and enhance visitor experience by continually refreshing the existing gardens and grounds. The major achievement for the team this year was the completion of Nature's Playground. This project was delivered on time and budget, utilising the skills of both teams, in combination with contractors, to complete what has been a very rewarding project.

The major achievement for the team this year was the completion of Nature's Playground.

KEY HIGHLIGHTS:

Assets

Completed work insulating the Giant Panda night quarters with noise reducing material to reduce sound reverberation.

Roof of Anaconda exhibit was replaced and sealed.

Minchin House and Gate House re-roofed with heritage-style tin to keep within heritage guidelines and maintain an original appearance.

Construction of a new Pygmy Blue-tongue breeding facility.

Installation of air conditioning system at bird off-limit area at Adelaide Zoo to provide appropriate temperatures for Orange-bellied Parrot breeding.

Facilitated the engagement of Work for the Dole undertaking paving repairs throughout the zoo grounds

Front entrance security upgrade including the installation of safety glass in cashier areas at ticketing.



Conversion of the old Otter exhibit to the new Capybara exhibit.

Completed the replacement of the old walkway at the Southeast Asian Boardwalk connecting the White-cheeked Gibbon house to the Siamang lock-away with a new, long-lasting surface.

Refurbishment of the old Capybara exhibit for the arrival of Obi the Pygmy Hippo, including new front fence glass for viewing.

Completed refurbishment of necropsy facilities at both Adelaide and Monarto Zoo.

Construction of a new Giraffe breeding shed and holding yards for giraffe introductions at Monarto Zoo.

Installation of fire safety system at the Rhino bomas.

Completion of bus and vehicle wash bay and commissioning of service to ensure we meet with our sustainability values.

Renovations to Black Rhino off-limit yards and holding pens.

Renovations to existing White Rhino bomas to facilitate better viewing of animals and allow for larger keeper talks.

Painting of external windows and internal walls at the Visitor Centre Cafe.

Mallee Emu-wren facility development in conjunction with Rotary.

Western Swamp Tortoise facility development to cater for breeding.

Horticulture

Landscaped Nature's Playground and assisted with installation of equipment.

Completed roof prune of advanced trees and replaced damaged mesh which was allowing birds to escape from aviary in the Australian Rainforest Aviary.

Installation of upgraded TORO computerised irrigation system with integrated weather station.

Introduced Sentek irrigation monitoring to Adelaide Zoo to assist with logging rain events and evaluating soil saturation levels.

Landscaping of new Capybara exhibits at Adelaide Zoo.

Landscaped the Pygmy Hippopotamus exhibit after completion of exhibits modifications.

Continued revegetation of Monarto Zoo through the Mallee Minders program and additional plantings into areas that require thickening of habitat.

Working with conservation team to monitor water usage across zoo site to develop best practice irrigation.

New path and gardens created in Wallaby Gorge at Monarto Zoo to improve accessibility to the walkthrough exhibit.

Revegetation of the sand dunes in the old Ostrich enclosure at Monarto Zoo, removal of animals and installation of feral proof fencing to facilitate habitat revegetation.

Nature's Playground



Information and Communication Technology

The last year has seen additional improvements across the organisation's Information and Communication Technology (ICT) systems.

KEY HIGHLIGHTS

The Zoos SA team is working on the new admissions, ticketing and bookings project, currently between the development and implementation stage. This project has been extremely complex and the first phase is expected to be implemented in the first quarter of 2016-17. The system will provide a new product suite for point-of-sale transactions including membership, annual passes and order entry. This will also provide a new responsive-design web store, a single-point

integration that simplifies and expands supplier-to-distributor processes and venue-to-venue ticket sales.

We implemented cameras in the Nocturnal house and Native area to allow students who cannot always visit the zoo to observe animal behavior online. This is an initiative to assist the Children's University Adelaide, with the zoo being a learning destination for the university.



Financial Statements



**ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS**

**STATEMENT OF PROFIT OR LOSS
AND COMPREHENSIVE INCOME**

YEAR ENDED 30 JUNE 2016

	2016 \$	2015 \$
REVENUE		
Admissions, Membership and Other Revenue	16,634,905	14,548,035
Grants	7,359,830	7,805,239
Sundry Sales/Income	312,330	210,811
Bequests	752,500	1,531,798
Total Revenue	25,059,565	24,095,883
EXPENSES		
Salaries, Wages & On-Costs	(12,795,070)	(12,365,553)
Animal Care	(741,794)	(719,376)
Maintenance Consumables	(1,375,581)	(1,298,948)
Cost of Sales	(624,731)	(625,820)
Conservation & Research Projects	(1,849,257)	(2,279,492)
Utilities	(555,994)	(701,861)
Marketing & Promotion	(900,106)	(683,590)
Tours & Experiences	(983,985)	(887,737)
Depreciation	(2,481,407)	(2,408,616)
Onerous Lease Expense	-	790,734
Other Expenses	(1,563,174)	(1,748,957)
Total Expenses	(23,871,099)	(22,929,216)
SURPLUS/(LOSS) FROM OPERATING ACTIVITIES	1,188,466	1,166,667
Finance Income	83,412	122,869
Finance Expenses	(344,935)	(372,960)
Net Financing Income/(Expense)	(261,523)	(250,091)
Surplus/(Loss) for the Period	926,943	916,576
Other Comprehensive Income/Expense Items that will never be reclassified to profit or loss		
Change in fair value of financial assets at fair value through other comprehensive income	(15,226)	(8,762)
Total Other Comprehensive Income/(Loss) for period	(15,226)	(8,762)
Total Comprehensive Income/(Loss) for period attributable to members	911,717	907,814

**ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS**

STATEMENT OF FINANCIAL POSITION

YEAR ENDED 30 JUNE 2016

	2016 \$	2015 \$
CURRENT ASSETS		
Cash and Cash Equivalents	1,581,423	583,820
Receivables and Prepayments	551,809	501,611
Inventories	478,884	330,976
Held for Sale Property	-	-
Total Current Assets	2,612,116	1,416,407
NON CURRENT ASSETS		
Financial Assets at Fair Value	509,298	495,013
Property, Plant and Equipment	47,497,431	47,059,816
Total Non Current Assets	48,006,729	47,554,829
Total Assets	50,618,845	48,971,236
CURRENT LIABILITIES		
Sundry Creditors	2,797,758	1,456,859
Income in Advance	2,352,279	2,459,682
Loans and Borrowings	6,600,285	239,738
Provision for Onerous Lease	-	-
Employee Benefits	2,811,276	2,634,753
Total Current Liabilities	14,561,598	6,791,032
NON CURRENT LIABILITIES		
Loans and Borrowings	1,735,985	8,213,113
Income in Advance	-	500,000
Provision for Onerous Lease	-	-
Employee Benefits	285,293	342,839
Total Non Current Liabilities	2,021,278	9,055,952
Total Liabilities	16,582,876	15,846,984
Net Assets	34,035,969	33,124,252
Reserves	(22,681)	(7,455)
Retained Funds	34,058,650	33,131,707
Total Equity	34,035,969	33,124,252

**ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS**

STATEMENT OF CASH FLOWS

YEAR ENDED 30 JUNE 2016

	2016 \$ INFLOWS (OUTFLOWS)	2015 \$ INFLOWS (OUTFLOWS)
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts		
Receipts from customers	14,469,033	13,546,740
Donations, Bequests and Sponsorships	2,827,837	2,572,132
Payments		
Wages and Salaries	(12,598,634)	(11,860,458)
Suppliers	(7,098,995)	(6,734,807)
Conservation & Research Projects	(502,637)	(4,419,230)
Net Cash Provided by/(Used in) Operating Activities	(2,903,396)	(6,895,623)
CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of Property, Plant and Equipment	(2,920,264)	(1,263,484)
Purchase of Shares and Investments	(29,511)	(494,046)
Interest and dividends received	83,412	122,869
Net Cash Provided by/(Used in) Capital and Investing Activities	(2,866,363)	(1,634,661)
CASH FLOWS FROM FINANCING ACTIVITIES		
Net State Government Grants Received	5,485,982	5,364,832
Net Other Grants Received	1,742,896	4,267,582
Repayment of Borrowings	(116,581)	(1,207,876)
Payment of Interest	(344,935)	(372,960)
Net Cash Provided by Financing Activities	6,767,362	8,051,578
Net (Decrease)/Increase in Cash Held	997,603	(478,706)
Cash at the Beginning of the Year	583,820	1,062,526
Cash at the End of the Year	1,581,423	583,820

ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS

REVENUES AND EXPENSES

YEAR ENDED 30 JUNE 2016

	2016				2015	
	ADELAIDE ZOO \$	MONARTO ZOO \$	SOCIETY \$	FUND-RAISING \$	TOTAL \$	TOTAL \$
REVENUE						
Admissions	5,354,454	1,819,229	-	-	7,173,683	6,814,023
Education	733,358	176,765	-	-	910,123	762,444
Sponsorship	117,680	10,280	451,261	1,456,768	2,035,989	1,139,554
Bequests	-	-	-	752,500	752,500	1,531,798
Donations	-	4,769	11,232	521,749	537,750	398,090
Membership	-	-	2,947,916	-	2,947,916	2,491,966
Retail Sales	1,078,123	352,430	-	-	1,430,553	1,312,428
Catering Sales	494,891	46,149	-	-	541,040	681,270
Tours Income	357,471	369,161	-	-	726,632	670,433
Events	322,969	8,250	-	-	331,219	277,827
Sundry Sales/Income	92,653	68,078	149,339	2,260	312,330	210,811
Grants	26,500	37,123	7,293,757	2,450	7,359,830	7,805,239
Total Revenue	8,578,099	2,892,234			25,059,565	24,095,883
EXPENSES						
Salaries, Wages & On-Costs	5,894,108	2,862,934	3,824,059	213,969	12,795,070	12,365,553
Animal Care	242,758	318,996	180,040	-	741,794	719,376
Maintenance Consumables	1,011,564	282,183	81,834	-	1,375,581	1,298,948
Cost of Sales	470,337	154,394	-	-	624,731	625,820
Conservation & Research Projects	-	-	1,849,257	-	1,849,257	2,279,492
Utilities	402,644	153,350	-	-	555,994	701,861
Marketing & Promotion	15,148	2,480	778,367	104,111	900,106	683,590
Tours & Experiences	201,426	779,475	3,084	-	983,985	887,737
Depreciation	-	-	2,481,407	-	2,481,407	2,408,616
Onerous Lease Expense	-	-	-	-	-	(790,734)
Other Expenses	334,043	102,644	1,073,415	53,072	1,563,174	1,748,957
Total Expenses	8,572,028	4,656,456	10,271,463	371,152	23,871,099	22,929,216

**ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS**

STATEMENT OF CHANGES IN EQUITY

YEAR ENDED 30 JUNE 2016

	FAIR VALUE RESERVES	RETAINED FUNDS	TOTAL EQUITY
	\$	\$	\$
Balance at 1 July 2014	1,307	32,215,131	32,216,438
Profit/(Loss) for the period	-	916,576	916,576
OTHER COMPREHENSIVE INCOME			
Change in fair value of financial assets at fair value through other comprehensive income	(8,762)	-	(8,762)
Total Other Comprehensive Income/(Expense) for period	(8,762)	-	(8,762)
Total Comprehensive Income/(Expense) for period	(8,762)	916,576	907,814
Balance at 30 June 2015	(7,455)	33,131,707	33,124,252
Balance at 1 July 2015	(7,455)	33,131,707	33,124,252
Profit/(Loss) for the period	-	926,943	926,943
OTHER COMPREHENSIVE INCOME/(EXPENSE)			
Change in fair value of financial assets at fair value through other comprehensive income	(15,226)	-	(15,226)
Total Other Comprehensive Income/(Expense) for period	(15,226)	-	(15,226)
Total Comprehensive Income/(Expense) for period	(15,226)	926,943	911,717
Balance at 30 June 2016	(22,681)	34,058,650	34,035,969

The financial report for the year ended 30 June 2015 has been prepared in accordance with Australian Accounting Standards, (including Australian interpretations) adopted by the Australian Accounting Standards Board (AASB) and the Associations Incorporations Act.

*Copies of the Audited Financial Statements and Audit Opinion for the year ended 30 June 2015 are available to members at the Annual General Meeting or on our website www.zoossa.com.au



Little penguin / Image credit Adrian Mann

Appendices

APPENDIX A CITES LISTED SPECIES

There are approximately 5,000 species of animals and more than 28,000 species of plants protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). These species are listed in one of three CITES Appendices, according to how threatened they are by international trade. Animals listed under CITES Appendix I are those species threatened by extinction. The exchange of these species is permitted only in certain circumstances. These restrictions have implications for the maintenance of CITES I species in the zoo environment, as the import of such species can be a long and expensive exercise. These species, in particular, highlight the need for effective population management, with any CITES I species required to be managed under the Department of the Environment's cooperative conservation program. Adelaide Zoo currently houses 23 species of CITES I listed animal, while Monarto Zoo maintains 9 CITES I.

CITES I SPECIES MANAGED WITHIN ZOOS SA COLLECTIONS (BY CLASS, IN ALPHABETICAL ORDER BY COMMON NAME FOR EASY REFERENCE).

Reptilia

Madagascan Tree Boa	<i>Sanzinia madagascariensis</i>
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>

Aves

Hyacinth Macaw	<i>Anodorhynchus hyacinthinus</i>
Illiger's Macaw	<i>Ara maracana</i>
Nicobar Pigeon	<i>Caloenas nicobarica</i>
Orange-bellied Parrot	<i>Neophema chrysogaster</i>
Palm Cockatoo	<i>Probosciger aterrimus</i>
Scarlet Macaw	<i>Ara Maceo</i>

Mammalia

Addax	<i>Addax nasomaculatus</i>
Black Rhinoceros	<i>Diceros bicornis minor</i>
Brush-tailed Bettong	<i>Bettongia penicillata ogilbyi</i>
Cheetah	<i>Acinonyx jubatus jubatus</i>
Chimpanzee	<i>Pan troglodytes</i>
Cotton-top Tamarin	<i>Saguinus oedipus</i>
Giant Panda	<i>Ailuropoda melanoleuca</i>
Golden Lion-tamarin	<i>Leontopithecus rosalia rosalia</i>
Greater Bilby	<i>Macrotis lagotis sagitta</i>
Greater Stick-nest Rat	<i>Leporillus conditor</i>
Hog Deer	<i>Axis porcinus</i>
Malayan Sun Bear	<i>Helarctos malayanus malayanus</i>
Malayan Tapir	<i>Tapirus indicus</i>
Mandrill	<i>Mandrillus sphinx</i>
Mesopotamian Fallow Deer	<i>Dama mesopotamica</i>
Nepalese Red Panda	<i>Ailurus fulgens fulgens</i>
Przewalski's Horse	<i>Equus ferus przewalski</i>
Ring-tailed Lemur	<i>Lemur catta</i>
Scimitar-horned Oryx	<i>Oryx Dammah</i>
Siamang	<i>Symphalangus syndactylus</i>
Sumatran Orang-utan	<i>Pongo abelii</i>
Sumatran Tiger	<i>Panthera tigris sumatrae</i>
White-cheeked Gibbon	<i>Nomascus leucogenys</i>

INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE LISTED SPECIES

The International Union for the Conservation of Nature (IUCN) has been assessing the conservation status of animal and plant species on a global scale for more than forty years. The categories and criteria are intended to be an easily and widely understood system for classifying species at a high risk of extinction. IUCN listed species are represented throughout most of the taxonomic groups currently held at Adelaide and Monarto Zoos.

SPECIES WITHIN ZOOS SA COLLECTION LISTED IN IUCN CATEGORIES OF MOST CONCERN

Extinct in Wild

Scimitar Oryx	<i>Oryx dammah</i>
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Critically Endangered

Addax	<i>Addax nasomaculatus</i>
Aruba Island Rattlesnake	<i>Crotalus durissus unicolor</i>
Axolotl	<i>Ambystoma mexicanum</i>
Black Rhinoceros	<i>Diceros bicornis minor</i>
Brush-tailed Bettong	<i>Bettongia penicillate ogilbyi</i>
Cotton-top Tamarin	<i>Saguinus oedipus</i>
Eastern Bongo	<i>Tragelaphus enrycerus isaaci</i>
Murray Cod	<i>Maccullochella peelii</i>
Orange-bellied Parrot	<i>Neophema chrysogaster</i>
Regent Honeyeater	<i>Xanthomyza Phrygia</i>
Sumatran Orang-utan	<i>Pongo abelii</i>
Sumatran Tiger	<i>Panthera tigris sumatrae</i>
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>
White-cheeked Gibbon	<i>Nomascus leucogenys</i>

Endangered

African Wild Dog	<i>Lycaon pictus</i>
Australian Sea-lion	<i>Neophoca cinerea</i>
Chimpanzee	<i>Pan troglodytes</i>
Elongate Tortoise	<i>Indotestudo elongate</i>
Giant Panda	<i>Ailuropoda melanoleuca</i>
Golden Lion-tamarin	<i>Leontopithecus rosalia rosalia</i>
Goodfellow's Tree-kangaroo	<i>Dendrolagus goodfellowi</i>
Gouldian Finch	<i>Chloebia gouldiae</i>
Hardyhead	<i>Craterocephalus fluviatilis</i>
Hyacinth Macaw	<i>Anodorhynchus hyacinthinus</i>
Malayan Tapir	<i>Tapirus indicus</i>
Matschie's Tree-kangaroo	<i>Dendrolagus matschiei</i>
Mesopotamian Fallow Deer	<i>Dama mesopotamica</i>
Przewalski's Horse	<i>Equus ferus przewalski</i>
Pygmy Blue-tongue Lizard	<i>Tiliqua adelaidensis</i>

Regent Honeyeater
Siamang
Southern Bell Frog
Sun Conure
Swift Parrot
Tasmanian Devil
Woma Python

Vulnerable

African Grey Parrot
African Lion
Aldabra Tortoise
Australian Hooded Plover
Binturong
Brazilian Tapir
Broad-headed Snake
Chattering Lory
Cheetah
Common Hippopotamus
Crimson-bellied Conure
Double-wattled Cassowary
Ghost Bat
Greater Bilby
Greater Stick-nest Rat
Java Sparrow
Malayan Sun Bear
Malleefowl
Mandrill
Nepalese Red Panda
Quokka
Small-clawed Otter
Spur-thighed Tortoise
White-bellied Caique
Yabby
Yarra Pygmy Perch

Anthochaera phrygia
Symphalangus syndactylus
Litoria raniformis
Aratinga Soltitialis
Lathamus discolor
Sarcophilus harrisii
Aspidites ramsayi

Psittacus erithacus
Panthera leo senegalensis
Geochelone gigantean
Charadrius rubicollis
Arctictis binturong
Tapirus terrestris
Hoplocephalus bungaroides
Lorius garrulous
Acinonyx jubatus jubatus
Hippopotamus amphibious
Pyrrhura perlata
Casuaris casuaris johnsonii
Macroderma gigas gigas
Macrotis lagotis sagitta
Leporillus conditor
Padda oryzivora
Helarctos malayanus malayanus
Leipoa ocellata
Mandrillus sphinx
Ailurus fulgens fulgens
Setonix brachyurus
Aonyx cinerea
Testudo graeca
Pionites leucogaster
Cherax destructor
Nannoperca obscura

APPENDIX B PROFESSIONAL MEMBERSHIP

Zoo and Aquarium Association (ZAA) Board Member – Elaine Bensted

Wildlife Ethics Committee – Dr Ian Smith, Dr David McLelland, Gayl Males and Dr Lynley Johnson.

Veterinary Surgeons Board of South Australia – It is compulsory for all Zoos SA veterinarians to hold this.

American Association of Zoo Veterinarians – Dr Ian Smith and Dr David McLelland.

Association of Reptilian and Amphibian Veterinarians – Dr Ian Smith.

Association of Avian Veterinarians – Dr David McLelland.

Wildlife Diseases Association – Dr Ian Smith and Dr D McLelland. Australasian membership is also held by Dr Jenny McLelland, Dr L Johnson and Dr J Kalvas.

Australian and New Zealand College of Veterinary Scientists – Dr Ian Smith (Wildlife Medicine), Dr David McLelland (Zoo Medicine), Dr L Johnson (Zoo Medicine), Dr J McLelland (Avian Medicine).

American College of Zoological Medicine – Dr David McLelland.

European College of Zoological Medicine – Dr David McLelland.

Veterinary Nurses Council of Australia – Dianne Hakof

Zoo Animal Health Reference Group Chief Veterinary Officer appointee – Dr Ian Smith.

ZAA Taxon Advisory Group Veterinary Advisory Group membership – Primates (Dr D McLelland – recent acting Primary Veterinary Advisor), Herpetofauna/Reptiles (Dr David McLelland – PVA), Ungulates (Dr Ian Smith), Amphibians (Dr J. Kalvas), Carnivores & Small Exotics (Dr Ian Smith and Dr J. Kalvas), Australian Terrestrial Fauna (Dr David McLelland) and Birds (Dr Jenny McLelland, Dr David McLelland and Dr L Johnson).

Australian Mammal Society – Liberty Olds.

Ecological Society of Australia – Liberty Olds.

South Australian Herpetology Group – Phil Ainsley.

ZAA Australian Species Management Plan - Gert Skipper (Committee member, Carnivore and Small Exotic Mammal TAG Co-convenor) and Jodi Buchecker (Australian Mammals TAG Co Convenor)

APPENDIX C STUDBOOKS MANAGED BY ZOOS SA

Studbooks are used worldwide to effectively manage ex-situ animal populations of wild animals. Studbooks contain the registration details of each animal of a particular species in captivity, including the animals' sex and birthdate, genetic profile, historical data and husbandry requirements. Studbook keepers maintain these databases and make recommendations for particular species in a regional capacity. Zoos SA currently manages the following studbooks:

ASMP SPECIES STUDBOOKS MANAGED BY ZOOS SA EMPLOYEES

SPECIES		TAG	STAFF MEMBER	POSITION
Black-winged Stilt	Himantopus himantopus leucocephalus	Birds	V Wilson	Species Coordinator
Bush Stone-Curlew	Burhinus grallarius	Birds	A Guinsberg	Species Coordinator
Brush-tailed Bettong	Bettongia penicillata	Native Fauna	V Wilson	Species Coordinator
Ghost Bat	Macroderma gigas gigas	Native Fauna	J Hollamby	Species Coordinator
Greater Bilby	Macrotis lagotis sagitta	Native Fauna	J Buchecker	Species Coordinator
South Australian Mainland Tammar Wallaby	Macropus eugenii eugenii	Native Fauna	J Buchecker	Species Coordinator
Southern Hairy-nosed Wombat	Lasiorninus latifrons	Native Fauna	G Skipper	Species Coordinator
White-browed Woodswallow	Artamus superciliosus	Birds	V Wilson	Species Coordinator
Yellow-footed Rock-wallaby	Petrogale xanthopus xanthopus	Native Fauna	J Buchecker	Species Coordinator

APPENDIX D CONSERVATION RECOVERY TEAMS

Recovery teams are critical collaborations of government and nongovernment stakeholders and experts with a shared interest to develop and implement a recovery plan for a nationally listed species and/or an ecological community. Zoos SA is contributing both to captive and wild conservation efforts across many of these teams.

ZOOS SA STAFF REPRESENTATIVES ON SPECIES RECOVERY TEAMS

SPECIES		REGION	STAFF MEMBER
Black-flanked Rock-wallaby	Petrogale lateralis lateralis	State	B. Pohl, L. Olds, A. Guinsberg
Brush-tailed Rock-wallaby	Petrogale penicillata	National	D. Schultz, L. Olds
Greater Bilby	Macrotis lagotis sagitta	State	J. Buchecker
Malleefowl	Leipoa ocellata	National	Observer Status
Murraylands Threatened Flora	Multiple spp.	State	P. Ainsley
Orange-bellied Parrot	Neophema chrysogaster	National	P. Ainsley
Pygmy Blue-tongue Lizard	Tiliqua adelaidensis	State	P. Ainsley, T. Morley
Regent Parrot	Polytelis anthopeplus	State	D. McLelland
Southeast Red-tailed Black-cockatoo	Calyptorhynchus banksii graptogyne	National	L. Olds, V. Russell
Southern Brown Bandicoot	Isodon obesulus	State	V. Russell
Threatened Mallee Bird Implementation Team	Multiple spp.	National	L. Olds
Western Swamp Tortoise	Pseudemydura umbrina	WA state	P. Ainsley, T. Morley

Tasmanian Devil / Image credit Adrian Mann



APPENDIX E RESEARCH

In order to conduct effective conservation efforts, we need to understand how best to do the work; be it captive breeding, working with wild populations or running our education programs. To support this, a variety of research activities are undertaken across the organisation, both by staff and a range of research students.

Research conducted by Zoos SA staff or students supervised by Zoos SA staff over the last 12 months:

RESEARCH INTERESTS

David Schultz (Zoos SA) and other partner organisations: Recovery and reintroduction of the southern brush-tailed rock wallaby

Cassie Harper, James Cook University: Survey and Review of intestinal obstruction with phytobezoars in langurs in zoos in Australia, Europe and North America

Partner Organisation on successful 2015 ARC Linkage Grant to investigate a vaccine for koala retrovirus; multi-institution team lead by Prof Peter Timms, University of the Sunshine Coast.

Flinders University

Nicole Anderson (Zoos SA staff member), PhD candidate: Vaccination studies and population viability assessment for African Wild Dogs (almost completed; Ian Smith co-supervisor)

University of Adelaide, School of Animal and Veterinary Sciences

Maria Bargsted, PhD candidate: Use of a toxic implant against feral cats to protect reintroduced Australian native fauna (David Schultz, collaborator)

Collaborative Research Project with Prof Milton McCallister: Testing the potential of spotted hyaenas to transmit *Toxoplasma gondii* (ongoing; Ian Smith, Co-Investigator)

Casey O'Brien, PhD candidate: Resolving human to wombat conflict: can non-legal management techniques be utilised to mitigate conflicts between SHNW and the agricultural sector.

University of Sydney, Faculty of Veterinary Science.

Collaboration with four research projects:

- Rachel D'Arcy, PhD Candidate: Chronic kidney disease in non-domestic felids (ongoing)
- Chantal Whitten, Masters Candidate: The impact of diet and feeding practices of captive large felids in relation to the incidence of tooth fractures and intestinal foreign body obstruction (ongoing)
- Lucinda Barton, PhD Candidate: Early diagnosis and clinical management of osteoarthritis in non-domestic felids (*Panthera tigris*, *Panthera leo*, *Acinonyx jubatus*) (ongoing)
- Steven Pyecroft and PhD Candidate Dena Piro: discussions commenced for pharmacokinetic study with Tasmanian Devils.

Murdoch University

Jessica Rendle; PhD candidate: Lumpy Jaw in captive macropods (ongoing, Zoos SA collaborating)

University of Adelaide, School of Animal and Veterinary Sciences. Wayne Boardman, PhD Candidate: Grey Headed Flying Fox disease epidemiology

PUBLICATIONS

McLelland DJ, Fielder K, Males G, Langley N, Schultz D. 2015. Successful transfer of a Goodfellow's tree kangaroo (*Dendrolagus goodfellowi*) pouch young to a yellow-footed rock wallaby (*Petrogale xanthopus*) surrogate. *Zoo Biology*. 34(5):460-462

Wildlife Disease Association International Conference held in Maroochydore (Qld) in July 2015. Attended by J. McLelland (co-convenor) and D. McLelland (2 poster presentations)

- McLelland DJ, Owens J, Valcanis M, Trott DJ, McWorter AR. Salmonella serotypes isolated from reptiles in The Kimberley.
- McLelland DJ, Ryan-Colton E, Ireland L, Smith K, Humphrey M, Hedger C. Investigating regent parrot declines in South Australia – Biomedical survey and telemetry.

SA Power Networks presentations in Dec 2015. Dianne Hakof gave two motivational talks on "Achievement".

Veterinary Nurse Council of Australia Conference held in Perth (WA) in April 2016. Attended by Dianne Hakof (presentation- "medical and ethical considerations of wildlife nursing" and ran workshop- "Hand rearing with Wombaroo")

European College of Zoological Medicine annual meeting was held in Belgium in April 2016. Attended by D. McLelland (presentation- Lumpy Jaw in Macropods – Update on investigations into pathogenesis and management)

Australian Veterinary Association conference was held in Adelaide in May 2016. Attended by J. McLelland, D. McLelland (presentation- Medicine of Marsupials) and I. Smith (presentation- Western Quoll Reintroductions)

Zoo, Sentinel Clinic and University Surveillance joint meeting held in Sydney in Jun 2016. Attended by D. McLelland.

APPENDIX F

CONFERENCE PRESENTATIONS AND WORKSHOP ATTENDANCES

DATE	CONFERENCE, PRESENTATION AND/OR WORKSHOP	STAFF MEMBER	PRESENTATION/PAPER PRESENTED
July 2015	Wildlife Disease Association International Conference	Jenny McLelland (co-convenor) and David McLelland	
July 2015	Australian Wildlife Conservancy's fourth South-eastern Australia Research Symposium at Scotia Sanctuary	Jodi Buchecker and Liberty Olds	
December 2015	SA Power Networks conference	Dianne Hakof	Achievement
March 2016	World Association of Zoos and Aquariums 2nd Joint TAG Chair Meeting, CBSG: Global Canid and Hyaenid ICAP Workshop	Gert Skipper	
April 2016	Veterinary Nurse Council of Australia Conference	Dianne Hakof	Medical and ethical considerations of wildlife nursing, plus workshop on hand rearing with Wombaroo
April 2016	European College of Zoological Medicine Annual Meeting	David McLelland	Lumpy Jaw in Macropods, update on investigations into pathogenesis and management
May 2016	2016 Zoos Aquarium Association Biennial Conference. Zoos and Aquariums: Working in the global context	Elaine Bensted	Stakeholder engagement and communication planning for Zoos SA Master Plan
May 2016	2016 Zoos Aquarium Association Biennial Conference. Zoos and Aquariums: Working in the global context	Nic Bishop	Keep your seeker seeking: Strategies for involving animals in their own welfare outcomes
May 2016	ASZK Annual 40th Anniversary Conference	Lucy Catt	The Trials and Tribulations of Breeding Giant Pandas in the Southern Hemisphere
May 2016	ASZK Annual 40th Anniversary Conference	Gale Akerman and Michelle Lloyd	Engage to Inspire and Connect – Training Cheetah and People for Successful Interactions
May 2016	ASZK Annual 40th Anniversary Conference	Deb Barry	Our PACT (Positive Animal Conditioning Techniques) In Rearing Animal Ambassadors
May 2016	ASZK Annual 40th Anniversary Conference	Nic Bishop	Clique or Click in Animal Training? A Special TED talk: Treating Each Other Decently
May 2016	ASZK Annual 40th Anniversary Conference	Jodie Buchecker	'Zimstravaganza – advances in Animal Record Keeping' Jodie Buchecker, Monarto Zoo

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