

# **Annual Report**

## **2022-23**

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## President and Chief Executive's report

The ability of Zoos SA as an organisation to bounce back after two very hard-hitting years has been both impressive and welcomed. The resilience shown and proven speaks volumes for our staff, volunteers and the community's interest, engagement and passion in the work that Zoos SA undertakes to connect people with nature and to save species from extinction.

The 2022-23 year saw a growth in visitation across both Adelaide Zoo and Monarto Safari Park. After the last few years in which the impacts from COVID 19 hit Zoos SA forcefully, we are grateful to see this about-turn in visitation.

In March 2023, Adelaide Zoo was the recipient of the prestigious Major Tourist Attraction award at the Qantas Australian Tourism Awards. This national award, the first in its history to be presented to a South Australian visitor attraction, was made all the better by the fact that it was received during Adelaide Zoo's 140<sup>th</sup> year.

In May 2023, Adelaide Zoo celebrated its 140<sup>th</sup> birthday month by allowing 'kids to go free'. The uptake on this offering proved to be far more popular than we could have anticipated and resulted in a higher than average visitation and revenue for Adelaide Zoo in May. Celebrations culminated with the burial of a time capsule and the planting of an endangered Wollemi Pine at Adelaide Zoo. What was apparent through all the celebrations was the community's nostalgia, deep-rooted affection and enthusiasm for Adelaide Zoo past, present and future.

At the same time, Monarto Safari Park has continued to impress with the one-year-old Visitor Centre and its improved facilities for visitors. Work on the Wild Africa precinct, which will be home to a hotel, glamping and a safari experience continued with the hotel structure now clearly visible to visitors and passers-by. This glimpse of the hotel is a tantalising promise of the future of Monarto and its place as a leading tourism attraction in the Murraylands region.

Zoos SA delivered the second instalment of its Light Creatures event thanks to its partnership with SA Power Networks. Opening to the public from 7 – 31 July 2022 (as part of Illuminate Adelaide) Light Creatures presented an array of animal lanterns, soundscapes, light shows and animal feeds as well as being a cultural connector to Kurna Country, its people and their Dreamtime. New to the Light Creatures event in 2022 was Cahaya a tiger lantern, which performed a spellbinding walk through the zoo grounds (often followed by streams of visitors young and old) and a Night Creatures Wild Show featuring our talented keepers and the native species in their care.

February 2023 also saw the return of the Zoos SA Gala that raised more than \$188,000 towards a Cheetah habitat in the new Wild Africa safari. Guests gathered at the Adelaide Oval and were enamoured by the stories of two Cheetah cubs born at Monarto Safari Park who were named after Cheetah cared for by our conservation partner the Cheetah Conservation Foundation based in Namibia.

Our organisational focus throughout the financial year has been to continue to build on the number of annual and lifetime memberships and to further reintroduce and offer key animal experiences. Our experience tells us that these up close encounters offer visitors a deeper connection with

species. The reintroduction of these experiences is therefore a vital tool in delivering on our purpose to connect people with nature. Despite their reintroduction, many of these experiences must continue with the use of masks due to transmissible COVID 19 risks to the species involved.

As previously, during this financial period, we operated with a strict control on all budgets, avoiding any unnecessary spending while ensuring we were able to meet our high animal welfare standards. What the 2022-23 year has proven is that Zoos SA staff can stand up to challenges while also looking to the future using innovation and our passion for our purpose to deliver positive outcomes. All this, despite needing to hold the financial reins with a firm hand. Key outcomes during this financial year were:

- In 2022-23, Zoos SA continued to support 13 conservation projects in Australia and provided financial support to 12 field projects internationally across Africa, China, South East Asia and the Solomon Islands. We are proud of this continued commitment to conservation.
- A number of key threatened conservation species were bred at both Zoos SA sites as part of release to the wild projects. This included critically endangered Orange-bellied Parrots, Western Swamp Tortoises, Red-tailed Phascogales, Plains mouse and Plains Wanderers.
- March 2023 saw us complete the first year of operating from the new Visitor Centre at Monarto Safari Park. This build was made possible with \$15.8 million in funding from the Australian and State Governments.
- Building of onsite accommodation of a 78-room hotel and glamping facilities at Monarto Safari Park continued throughout the period. A private investor will build and operate this luxury resort and glamping facilities as part of a multi-million-dollar expansion.
- We held out of hours events such as Zoo Nights, Light Creatures and Haunted Horizons Ghost Tours of Adelaide Zoo.
- We welcomed three critically endangered Sumatran Tiger cubs to Adelaide Zoo, hand-raised one giraffe calf, moved species into the new Wild Africa precinct and welcomed the birth of seven vulnerable Cheetah (one of which was the first Cheetah to be cross-fostered in Australia).
- We also continued to welcome life members to our wild family with life membership income up by 17% in 2022-23.

The extinction rate of species, particularly those native to Australia, has not slowed. We therefore continue to focus on delivering conservation efforts that provide short and long-term solutions for the recovery and safeguarding of a number of different species and habitats.

While this report looks back over the past twelve months, we are focussed on the future. Our hope is that by following key priorities we will continue to serve conservation and our community of stakeholders as they deserve: with expertise, collaboration and hope. Our Board and Leadership teams have therefore determined that Zoos SA will focus on the below for the next few years:

- Implementing our new Strategic and Conservation Directions
- Financial sustainability and cash management
- Systems improvements
- Continued focus on our updated Master Plan to maintain momentum including developments at both Adelaide Zoo and Monarto Safari Park

- The continuation of Zoos SA's Reconciliation Action Plan

We would like to put on record our sincere thanks to the resilient and passionate staff and volunteers of Zoos SA who have shown continued perseverance and commitment to our cause. While this has been a time of adaptability all involved have risen to every challenge with good grace, humour and an absolute commitment to our purpose.

We also thank our board members for their staunch support of Zoos SA over the past year and our incredible members, corporate partners and supporters for their continued loyalty.

**Julieann Riedstra**

President

**Elaine Bensted**

Chief Executive, Zoos SA

## 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

#### **Julieann Riedstra**

##### **President**

Julieann has had a long career in the public sector in South Australia and was most recently the Deputy Chief Executive and Chief Operating Officer of the Department for Education. Julieann is a Fellow of Certified Practising Accountants (CPA) Australia and a Graduate of the Australian Institute of Company Directors (AICD). Julieann has been a member for many years and became a Life Member in 2008.

#### **Dennis Mutton**

##### **Vice President**

Dennis is an independent consultant in the fields of natural resource management, primary industries, regional growth initiatives and leadership development. He is a fellow of the AICD and holds a range of board directorships in government, business and not-for-profit organisations.

#### **Prof Kris Helgen**

Kris is an expert on mammal evolution and conservation and serves as the Chief Scientist of the Australian Museum in Sydney. Kris was Curator in charge of mammals at the Smithsonian from 2008 – 2017.

#### **Peter McCarthy**

Peter is a retired Clinical Biochemist. He and his colleague, the late Brian Rich, set up the laboratory in the Animal Health & Research Centre in late 1999. Both were honoured by the then board as Honorary Research Associates in 2003 for their contribution to Zoo SA in providing a service to the Veterinary staff as an aid to diagnosis and treatment of our animals and for their research work. In 2019 Peter was part of the six person team who won “The Unsung Hero” Award of South Australian Science. Peter’s interests lie in expanding the service that they currently offer and encouraging a greater commitment to research.

#### **David Martin**

David is an orthopaedic surgeon, and has held many positions in the Australian Orthopaedic Association, culminating in the role of president in 2019, and being awarded an OAM in 2020. His current role is Chair of the AOA Research Foundation. David is a Zoos SA Life Member and his very first job as a fifteen year old was as a part time keeper in the old children’s zoo in the 1970s.

### **Gavin Bates**

Gavin is a Senior Relationship Executive with the Commonwealth Bank, with qualifications and memberships in Accountancy, Finance and the Australian Institute of Company Directors. He has 25 years' experience as a qualified Chartered Accountant and in Corporate Banking both domestically and internationally.

### **Ursula Bradshaw**

Ursula is an Assurance Director with EY, with qualifications and memberships in Accountancy in both Australia and the United States. She has over 16 years' experience as a qualified Chartered Accountant working with various publicly traded companies, and not-for-profit entities in Australia and the United States. Ursula has gained experience and understanding of strong governance and best practices through extensive involvement with audit client boards, and through serving on the board of various Not-For-Profit entities and Associations.

### **Tyson Grubb**

Tyson is CEO/Founder of Instrument Choice, Australia's largest online retailer of scientific measurement and lab equipment, a multiple award winning, industry leading company, promoting over 10,000 lab and measurement tools to scientists throughout Australia and New Zealand. His most recent board role was as the Learning Chair for the Entrepreneurs Organisation Adelaide.

### **Eoin Loftus**

Eoin has near 30-years' experience in developing and operating tourism accommodation businesses across South Australia. He established his own consultancy businesses Loftus Business Advisory and Hotel Refurbs in 2022. He currently sits on the boards of the Tourism Industry Council of South Australia as Chairman and the South Australian Tourism Commission.

### **Board Secretary/Public Officer**

#### **Kate Hartwig**

Kate has had a long career in not-for-profit organisations having been CEO of a range of industry, professional and charitable organisations in Adelaide, Sydney and Melbourne. She was appointed as the Zoos SA Board Secretary and Public Officer in 2013. Kate is a Life Member and a volunteer at Monarto Safari Park.

## Board Meeting Attendance

### Board Meeting Attendance 2022-23

Board Member	Position held	Number of meetings eligible to attend	Number of meetings attended	Comments
Julieann Riedstra	President	9	9	Commenced as President 21/11/2019
Dennis Mutton	Board Member	9	8	Re-elected Vice President 02/05/2023
Kris Helgen	Board Member	9	7	Re-elected 16/11/2021
Peter McCarthy	Board Member	9	9	Commenced 16/12/2020
David Martin	Board Member	9	9	Commenced 16/11/2021
Gavin Bates	Board Appointed Member	9	7	Commenced 07/12/2021
Ursula Bradshaw	Board Appointed Member	5	5	Commenced 06/12/2022
Tyson Grubb	Interim Board Member	3	3	Appointed 28/03/2023
Eoin Loftus	Board Appointed Member	1	1	Appointed 02/05/2023
Susie Robinson	Vice President	6	5	Ended term 21/02/2023
Rod Buchecker	Board Appointed Member	5	4	Ended Term 31/01/2023



**Finance and Audit Sub-Committee Attendance 2022-23**

Board Member	Position held	Numbers of meetings eligible attend	Number of meetings attended	Comments
Dennis Mutton	Chair	11	11	Commenced as Chair 23/11/2017
Julieann Riedstra	Committee Member	11	11	Commenced 23/02/2016
Gavin Bates	Committee Member	11	9	Commenced 7/12/2021
Ursula Bradshaw	Committee Member	11	8	Commenced 21/10/2021
Susie Robinson	Observer			3 Meetings
Rod Buchecker	Observer			1 Meeting

**Risk and Governance Sub-Committee Attendance 2022-23**

Board Member	Position Held	Number of meetings eligible to attend	Number of meetings attended	Comments
Susie Robinson	Committee Member	4	4	Commenced 17/03/2020 Commenced as Chair from 14/03/2023
Julieann Riedstra	Committee Member	4	4	Commenced 21/11/2019
David Martin	Committee Member	2	2	Commenced 14/03/2023
Ben Turner	External Member	2	2	Commenced 14/03/2023
Kate Hartwig	Committee Member	4	4	Commenced 28/11/2013
Rod Buchecker	Chair	2	2	Commenced 1/12/2017 Commenced as Chair from 17/03/20 Resigned 31/01/2023

## **Business goals**

### **Zoos SA purpose and aspiration**

Our purpose is to connect people with nature and save species from extinction.  
Our aspiration is to lead and inspire conservation action to support global biodiversity.

### **Strategic plan**

**Goal 1** - Connect people with nature: engage, inform and inspire people to act

**Goal 2** - Save species from extinction: conservation, wildlife health and research

**Goal 3** - Work in an ethical and sustainable manner, influencing others to follow our example

**Goal 4** - Grow a sound and advancing organisation, applying an innovative business approach

### **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. Out of 54 individual tasks detailed in the business plan, 50 were completed, two partially completed and two are yet to commence.

## Year in review – key numbers

662,422 people visited Adelaide Zoo and Monarto Safari Park

755 animals were born during 2022 – 23

13 conservation projects in Australia supported

\$32 million in free media coverage attracted

1.7 million website users

235,651 followers on social media (Facebook, Instagram, LinkedIn, Twitter and YouTube)

301 employees across both sites

514 registered volunteers across both sites

4,767 life members

52,000 annual members

12 field projects internationally across Africa, China, South East Asia and the Solomon Islands supported

## Year in review – Finance snapshot

2022-23 saw a strong recovery from the impacts of COVID-19 seen in the prior couple of years. The organisation reports a net surplus of \$1,169,158 which includes funding support of \$1,014,000 received from the State Government in the prior year.

Admission results for the 2022-23 financial year were extremely pleasing after the last few years that were impacted by COVID-19. Overall admissions totalled to just over 662,000 visitors which was a 33% increase on the prior year. This meant that 2022-23 was a record attendance year for Zoos SA beating our previous record high by 13%. This attendance result had a positive impact on attendance, education, membership, catering and retail income streams.

Membership at Zoos SA continued to grow during 2022-23 with overall member numbers being just under 52,000 members at the end of June 2023. This has meant membership income has also grown with strong sales in both annual and life memberships.

Retail sales grew significantly during the 2022-23 year and exceeded \$3,500,000 across both sites. This was a 60% increase on the prior year and reflects a full year of trade in the new Visitor Centre at Monarto as well as a change to having visitors exit both sites via the retail store.

Tours income increased by 29%, due to lower revenue from animal experiences in the prior year. Some of the animal experiences in this income stream have continued to be impacted by COVID-19 transmission concerns and are still yet to recover to pre-COVID levels. The commencement of the Land of the Lemurs Experience at Monarto added additional income to what is already a strong revenue stream for Zoos SA. Similarly, catering commission income has increased on the prior year driven by increased attendance results.

Event income was significantly higher than the prior year and included the second year of the Light Creatures winter event put on in partnership with Illuminate Adelaide. The event generated over \$1,637,000 in income which was \$615,000 more than the previous year's event.

We received bequest income of \$299,000 during the year. We also received corporate support from in-kind contributions and sponsorships of \$1,341,000. This was a decrease on the prior year result which reflects the difficult corporate sponsorship market that exists since the pandemic.

Donations income amounted to \$1,653,000, with \$1,340,000 of this being used to support capital investment. This enabled us to fund several projects, and to continue our investment in our Wild Africa precinct, and in particular in the vehicles which will be used to run the Wild Africa Safari tours which are expected to commence late in 2023.

In line with income growth, operating expenditure also increased. We saw higher cost of goods sold values associated with a much higher level of retail sales, as well as increased bus costs associated with accommodating a higher number of visitors at Monarto. Additional costs were also incurred for the extremely successful Light Creatures event held at Adelaide Zoo in July and August 2022.

Salaries and wage costs increased by 11% on the prior year which reflected staffing returning to normal levels as COVID-19 restrictions ceased as well as staffing required to support a larger number of visitors through the gates.

We invested \$4,356,000 in capital during 2022-23 (\$12,157,000 in 2021-22). Of this \$902,000 was for the new Monarto Safari Park Visitor Centre, and \$1,747,000 was for ongoing development of our Wild Africa precinct. 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.

Our investment portfolio grew in value over the 2022-23 financial year by \$61,884 and returned dividends of \$19,404.

The ANZ debt remains with a balance at 30 June of \$2,550,000. Zoos SA negotiated with ANZ to suspend all loan principle repayments during 2022-23 financial year to ensure all available cash could support the operations of both sites as well as the capital expenditure needed to ensure key projects at Monarto Safari Park are completed.

In updating our rolling 5-Year Business Plan, we have prepared forward estimates that enable reduction of our ANZ loan from within our annual operating budget. This is forecasting that debt principle repayment will recommence in the 2023-24 financial year. The repayment schedule is regularly discussed with ANZ and the State Government.

**KEY ACHIEVEMENTS:**

- Highest attendance year in the history of Zoos SA
- A significant recovery from COVID-19 impacted years with growth in all key income streams
- \$4.36m invested in capital projects including animal habitat enhancements and the Wild Africa precinct
- Controlled cash flow
- Maintenance and development capital expenditure in line with previous years

## Saving species inside our gates

### Adelaide Zoo

**Adelaide Zoo proudly houses over 2,500 animals representing mammals, birds, reptiles, amphibians, fish and invertebrates. Unfortunately, 40 percent of these species are threatened with extinction making our support critical for their survival in the wild.**

21 December 2022 was a very special date in Adelaide Zoo's history and its continued commitment to conservation and saving species. The first ever critically endangered Sumatran Tiger cubs were born at Adelaide Zoo resulting in three cubs (one male and two female). Ketambe, Susu and Marni have proven to be amazing ambassadors for their species along with their parents Delilah and Kembali. Now generations of Adelaide Zoo-goers are engaging with the species, learning about the threats the species faces in the wild and are inspired to make changes to better the Sumatran Tiger's situation in Sumatra.

The birth of these cubs was closely followed by the arrival of Matumi, a giraffe calf who was brought to Adelaide Zoo from sister site Monarto Safari Park after unsuccessful feeding and bonding with his mum. To ensure an optimal welfare outcome, a decision was made to hand raise him. Under the care of dedicated keepers, Matumi has thrived and bonded with residing giraffe Nolean and Kimya in the habitat at Adelaide Zoo.

We repeated efforts to breed the Giant Pandas in 2022 with the support from the China Conservation and Research Centre for Giant Pandas (CCRCGP) and partners Repromed. Unfortunately, this attempt did not result in the birth of a panda cub; however, all collaborators (including our Adelaide Zoo support team as well as Repromed) felt that we gained worthwhile knowledge and experience from these efforts, which will be invaluable in years to come.

During the year, there were a number of notable primate births including the first ever Black-and-White Colobus to be born at Adelaide Zoo. The female monkey, born to mum Adale, was named Jamila after a public vote. The troop has taken great care of the infant since its arrival. Additionally, male and female Hamadryas baboons were born to mum Quasi along with two Cotton-top Tamarins born to Peppa and Gomez.

Our colony of Australian Little Penguins has increased by four, boosting current numbers to 29 while our flock of Nicobar pigeons has increased to 21 birds.

As an organisation valued for its scientific and veterinary expertise, a number of rescued animals have come into our care. One particularly unusual rescue was a Green Turtle fondly named Paddy (as she was found on St Patrick's Day). Green Turtles are considered endangered in the wild and it was unusual to find one in South Australian waters. Caring for Paddy onsite at our animal health centre and taking part in her release and further monitoring through a tracking device has been an invaluable experience for our staff and community. We are delighted to say that since her release in May 2023 Paddy has continued to do well and is traceable to the public through an online tracker.

Our breed-for-release programs have continued successfully. Orange-bellied Parrots, Regent Honeyeaters, Western Swamp Tortoises and Red-tailed Phascogales have all bred and produced offspring as part of their respective wild population re-wilding programs.

## Delivering on our business goals:

### Goals

<p><b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.</p>	<p>Throughout 2022-23, Adelaide Zoo was able to bring back numerous Brief Animal Encounters. Giraffe Face-to-Face, Meerkat Encounter, Keeper for a Day and Junior Keeper have recommenced as has the Pygmy Hippo encounter and VIP Giant Panda. These experiences are a great way for guests to engage with passionate keepers to understand the care and conservation needs of their wild counterparts.</p> <p>The introduction of the Nocturnal Wild Show into the Light Creatures event was a great success. Special appearances from animal ambassadors included a free flying Barking Owl, bouncing Brush-tailed Bettong and a young Hairy-nosed Wombat.</p> <p>We added a Nankeen Kestrel to our Free Flight show, bringing a new dimension to an already excellent presentation.</p>
<p><b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.</p>	<p>Adelaide Zoo had a successful season breeding a number of species including Regent Honeyeaters, Western Swamp Tortoises, Orange-bellied Parrots and Red-tailed Phascogales. Western Swamp Tortoises and Orange-bellied Parrots are listed as critically endangered by the International Union of the Conservation of Nature and are part of multi-institutional collaborative recovery programs. Many of these animals have already been introduced into the wild as part of carefully managed breed-and-release programs. Red-tailed Phascogales bred at Adelaide Zoo, in partnership with the Australian Wildlife Conservancy, were released into the wild at Mallee Cliffs National Park in NSW.</p> <p>We successfully re-released a Warru that was thrown from his mother's pouch and required rearing at Adelaide Zoo before being returned to the APY Lands.</p>
<p><b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.</p>	<p>In September 2022, Adelaide Zoo reviewed their animal welfare model and identified areas for improvement. This led to the creation and implementation of Zoos SA Animal Welfare Strategy. The strategy provides a robust five-year framework to continually improve animal welfare in an objective, scientific, evidence-based manner. The strategy encompasses five key areas: 1. Ethical Foundation and Mission Delivery, 2. Animal Welfare Evaluation, 3. Animal Welfare Charter, 4. Research and lastly, 5. Professional Development and Policies.</p> <p>A new animal welfare assessment framework was created onsite. It incorporates the latest science, ZAA assessment and Five Domains Model of animal welfare. Additionally, it consists of equal resourced-based (input) and animal-based (output) measures, providing us with a greater holistic insight into an animal's welfare status. This assessment is applied onsite to all</p>



	species and identifies areas of improvements for the next 12 months. Adelaide Zoo is due for their ZAA accreditation at the end of next year and this new assessment model will complement this.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	Keeping staff participated in a range of development opportunities including fieldwork, mental health training, first aid and emergency training, animal transports and online conferences. We constructed a second Komodo Dragon home to accommodate the female. This habitat has a climate control system and is due to open in Autumn 2023. This new habitat also has an outside habitat that will be shared at different times by both the male and female Komodo Dragon. Four new aviaries have been constructed at the Variety Children's Zoo to house animal ambassadors and engage with visitors.

## **Saving species inside our gates**

### **Monarto Safari Park**

**Over 70 percent of the species that call Monarto Safari Park home are threatened with extinction in the wild. The crisis that all precious wildlife currently faces drives us to deliver on our purpose to connect people with nature and to save species from extinction. We are proud to say that Monarto Safari Park has delivered a host of positive outcomes for conservation and the future survival of species over this reporting period.**

This year we have made further strides in our work with Australian native conservation; introducing several species back to protected native habitat. Nearly 200 Plains mice bred at Monarto Safari Park were released into the Pilliga National Park; Warru were released back to the pintji in the APY Lands; and Plains Wanderer were released to Hay Plains. In addition, we have continued to breed native species for regional collection requirements including five Greater Bilby, four Plains Wanderer chicks and three successful Western Swamp Tortoise hatchlings. In addition, although it did not survive, we had our first ever-successful breeding and hatching of Mallee Fowl.

Our exotic species programs have contributed valuable additions to our regional breeding programs with the following significant animals born: a Chimpanzee; two Waterbuck calves, four giraffe; three bison; over thirty Blackbuck; a porcupette; three Addax; over a dozen Eland; seven Nyala; three Plains Zebra and Przewalski's Horse foals; six Ring-tailed Lemur pups; seven oryx; seven Cheetah and a Spotted Hyena. Many of these animals will assist with our expansion and development of Wild Africa, which will offer homes to our growing populations.

In addition to our breeding successes, we also acquired a female Southern White Rhinoceros called Carrie, to add to our breeding group; a new male giraffe from Perth as our new breeding bull on exhibit and new genetics for our hyena clans after importing two males from Sydney Zoo. In addition, we have sent two female hyena to other zoos; setting up the first breeding clans outside of Monarto Safari Park in the region.

As is always the case, we had some losses and some challenges. Our alpha Chimpanzee male, Tsotsi, died of cardiac issues and his loss continues to be felt within the troop. Male lion Inkosi was euthanised for medical reasons and his mate Jelani was later sent to Perth Zoo where he resides with aged females. Male giraffe calf Matumi was sent to Adelaide Zoo for hand-rearing after being rejected by his mother. Zambesi, a male zebra, passed away at the ripe old age of nearly 23 years. Our African Painted Dog pack continued to be socially and hierarchally unsettled which resulted in this year's litters not surviving.

We have also had many developments amongst our area with the building of a new shelter in a paddock used for holding animals off display. This shelter allows a male Bongo greater shelter from the elements; a new hyena den to accommodate more than one female with young when needed; the completion of rhino and giraffe holding areas to service the Etosha section of Wild Africa and the start-up of our hippo facility which will allow for holding of these animals. Our rhino raceway had its first use when the bull Ibutho moved from his previous holding yards to his new habitat in Etosha.

We were also able to move two male giraffe to Etosha, introducing them to the other species that have been housed there for some time. The 180-acre plus area also holds Barbary sheep, Waterbuck, Blackbuck, Eland, ostrich and oryx. Completing this area first has given the team time to work through any challenges associated with holding these species together as well as managing their care in such a large area.

Lastly, probably our biggest husbandry success this year, was the cross fostering of a singleton Cheetah cub into another litter of cubs born about a week later. Hand rearing occurred for a week and we were then able to introduce the cub into the other litter, giving it the best possible welfare outcome of being raised by a Cheetah and growing up and learning along with siblings.

### Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	In addition to offering our ongoing keeper talks and behind the scenes experiences, our new Ring-tailed Lemur tours commenced. The experience allows visitors to meet the lemur conspiracy in their large habitat where they can display natural behaviours. Also within the habitat are three species of tortoises. This new opportunity has proven to be very popular with our visitors.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	Our breeding programs continue to deliver, contributing to our captive regional populations and our Australian native release projects. Two Waru (Black flanked Rock-wallaby) were released back to the APY Lands and nearly 200 palyoora (Plains mice) bred at Monarto Safari Park were released into Pilliga State Forest in collaboration with Australian Wildlife Conservancy. In addition, three Plains Wanderer were released in conjunction with additional birds from Taronga Western Plains Zoo and Werribee Open Range Zoo to the Hay Plains in NSW.
<b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.	Monarto Safari Park once again maintained its ZAA accreditation for another three years. This accreditation is largely based on animal welfare parameters. Our internal welfare assessments have continued on our species as well as our new exhibits and holding areas to identify and action upon any areas of concern. Our new holding buildings in Etosha for giraffe and rhino and a second lemur holding area were fitted out with bush fire systems to protect animals and our assets.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	The carnivore team showed innovation and collaboration working with colleagues across the world to accomplish the cross fostering of a singleton Cheetah cub. The cross-fostering techniques was undertaken to provide the best option for the cub's welfare.

# Leading the way in animal care and research

**Our Animal Health Department (AHD) is tasked with caring for the health of over 3,000 animals that live at both Adelaide Zoo and Monarto Safari Park. The AHD also functions as a critical hub for zoological research, teaching and training, *in-* and *ex-situ* conservation, and provides veterinary care to hundreds of wildlife cases presented by wildlife organisations, government agencies and the public each year.**

Key financial year highlights include the finalisation of a multi-year contract to monitor reproductive hormones of extant microbat populations as a means to mitigate the impact of mining activities undertaken near their breeding caves.

Some clinical highlights for the AHD team included successful cross fostering of a Cheetah cub, possibly the first time this has been done in Australia; and Paddy the Green Turtle, not your average wildlife patient in South Australia! Weighing in at over 80kg, she was rescued at Middleton, nursed back to health at Adelaide Zoo, and continues to be tracked along the southern coast six months later.

A range of partnerships with specialist veterinary hospitals, human health professionals, and universities were further developed, enhancing the health care provided for our animals. Notable collaborations included a number of CT scans (such as African Lions Mujambi and Chad) and a monthly diagnostic imaging rounds session with The Austin Veterinary Specialists, and the investigation of avian malaria in little penguins with Macquarie University.

The risk of COVID-19 to Zoos SA's animals continued to be managed through the AHD's forward-thinking and collaborative approach.

Zoos SA's Nutritionist continued to review animal diets and streamline processes with keeping and food store staff. A framework to facilitate cross-department evaluation of how animal diets can contribute to optimising animal welfare was successfully introduced with workshops conducted for a number of species.

Our partnership with the University of Adelaide School of Animal and Veterinary Sciences goes from strength to strength. The AHD supervised six Doctor of Veterinary Medicine (DVM) students from the University of Adelaide for their Clinical Research Projects on topics including the gut microbiome of tamarins, heart disease in Tasmanian devils, and blood clotting in white rhinos, and has an ongoing PhD student investigating cognitive bias in reptiles to better understand reptile welfare.

Zoos SA's Animal Welfare and Ethics Committee met twice during the financial year, with discussions including animal health, habitat designs and upgrades and welfare audit results and tools, further cementing our position as a leader in the animal welfare space.

## Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	The interactive viewing area at Adelaide Zoo's Animal Health Centre, and associated discussions with members of the public, continues to showcase our activities. The AHD was involved in a number of programs engaging the broader community, including conservation of Regent Parrots in the Riverland, and supporting the work of the Aboriginal community with endangered species in the APY Lands.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	The AHD was directly involved in a number of in-situ and ex-situ conservation programs, including Brush-tailed Bettongs, Red-tailed Phascogales, Regent Parrots, Greater Stick-nest Rats, Mitchell's Hopping Mouse, Western Swamp Tortoise, and Orange-bellied Parrots. A number of research papers by AHD staff were published or are in preparation. We continue to develop our approach to managing the health of many endangered African ungulate species in the new Wild Africa precinct.
<b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.	The AHD was once again active on the South Australian Wildlife Ethics Committee with four of our veterinarians involved. There has been significant student supervision, including numerous extramural placements of DVM, vet tech, and vet nurse students, DVM Clinical Research Project and PhD Project supervision, lectures and practicals in veterinary clinical skills, and providing caseload for rotation and elective veterinary students.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	We continue to cultivate partnerships that enhance our clinical, conservation and research activities. These partnerships span veterinary, human health, and ecology fields, and include specialist support in ophthalmology, surgery, dentistry, anesthesia, behavioural medicine, and diagnostic imaging. We continue to have close ties with many external agencies including Wildlife Health Australia, a number of universities, government departments, and a range of local and international organisations. A number of AHD staff serve a range of professional organisations, including co-convenor of the ZAA VetSAG, and on committees of the Wildlife Disease Association, the Zoo and Wildlife Chapter of the Australian and New Zealand College of Veterinary Scientists, and the European College of Zoological Medicine.

## Conservation projects beyond our gates

**Our conservation team proudly participates in wildlife conservation projects and initiatives that ensure the long-term security of species, both in Australia and around the world. Zoos SA has been working hard to protect wild spaces and the species within them.**

Across Australia, we have continued to support our 13 domestic conservation priorities, and have reaffirmed our support for ecosystems around the world through our 12 international priorities in Africa, China, South East Asia and the Solomon Islands.

We continue to restore and protect vital habitat for the endangered South-eastern Red-tailed Black-Cockatoo. 15,455 trees were planted over May-June 2023 (this includes 15,004 plants at new sites and 451 replants). Plant survival counts were completed across 33 sites during March-April 2023. There has been good success with 80% (27 sites) having greater than 80% survival. Seventeen of the 33 sites surveyed had greater than 90% survival. We have applied for an additional five years of funding for the Cockies Helping Cockies program through the NLP3 process.

We have increased our holding for a number of threatened species. We house 10 critically endangered Plains Wanderers as part of an insurance population, with breeding recommendations for the upcoming season. There are less than 1,000 of these birds left in the wild, and our facilities are critical for their survival and recovery. In addition, we are breeding Plains Wanderers at Monarto Safari Park for release into the wild on the Hay Plains. Four specimens born in the last season are being readied for release to the wild on the Hay Plains during the spring release of the 2023-24 season. We recently applied for additional funding support for the Plains Wanderer program through the Federal Government Saving Native Species RFP process.

Brush-tailed Bettongs translocated from Wedge Island to the Marna Banggara rewilding project on the Yorke Peninsula have been periodically assessed throughout the last year using recapture studies. Preliminary indications have been very positive, with high recapture rates of released animals, in some cases with pouch young in evidence. Some recaptured adult Brush-tailed Bettongs are offspring from previous translocations. Another translocation effort from Dryandra WA to Marna Banggara was conducted during June of 2023, adding an additional 78 animals to the enclave to augment the genetics of the growing population.

In partnership with the Australian Wildlife Conservancy, our ex-situ breeding program enabled the successful re-introduction of 200 Plains mice into the Pilliga National Park, and we continue to breed Red-tailed Phascogales for release into the Mallee Cliffs National Park, where the species had been regionally extirpated, during 2023-24. We continue to breed Western Swamp Tortoises at Adelaide Zoo and Monarto Safari Park for release back into the wild in their natural range in Western Australia.

We have continued to support rock-wallaby conservation, with a number of staff being involved in Waru (Black-flanked Rock-wallaby) trapping for population monitoring and translocation. In the past three months, the Aboriginal Learning on Country team has undertaken pest species control at Aroona Dam in support of the ongoing Yellow-footed Rock-wallaby recovery effort.

We continue to support our International conservation partners including Sera Conservancy in Kenya, the Cheetah, Giraffe and Painted Dog Conservation Foundations in Africa, and Tacugama and

the Jane Goodall Institute in support of Chimpanzees. We continued to support the African Ranger Association, the Zambian Carnivore Program (bracelet sales from the Lions 360), Wildlife Asia (Sumatran Orangutans and Sumatran Tigers), Wild Welfare, TRAFFIC (preventing illegal animal trade), Tetepare (scholarships in the Solomon Islands), the Komodo Survival Program and the China Wildlife Conservation Association (Giant Panda). In early 2023 we sent \$16,000 to The Orangutan Project from the Karta Legacy Fund in support of ranger outposts to prevent poaching. During early 2023 Zoos SA hosted a Gala dedicated to raising funds for the conservation of Cheetah.

## Delivering on our business goals:

### Goals

<p><b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.</p>	<p>We worked closely with local and international communities. Engagement with community was vital to our Conservation Priorities, from supporting Red-tailed Black-cockatoo recovery in South Australia, to community awareness campaigns and education in the Solomon Islands (Tetepare) and Sierra Leone (Tacugama).</p>
<p><b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.</p>	<p>Working closely with our partners and recovery teams, we have translocated and reintroduced many species, bringing them back from local extinction and improving the viability of their wild populations. In addition, we have established important insurance populations of endangered species, and trialled a number of conservation technologies at Zoos SA (ex situ) that have been deployed in the wild (in situ).</p>
<p><b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.</p>	<p>We continue to expand our conservation breeding programs and continue to contribute to the regional conservation community to address a variety of important environmental challenges. We have continued to upgrade our breeding and clinical care facilities, with increased capacity and improved technology allowing us to grow and innovate our breeding and wildlife rescue programs. We honour our commitment to species recovery and continue to respond to emerging species' crises and needs. Sales of bracelets and beads, as part of the Lions 360 program, have supported significant donations to the Zambian Carnivore Program and paid the Game Rangers Association of Africa (GRAA) memberships for SERA Rangers. In early 2023 we sent \$16,000 to The Orangutan Project from the Karta Legacy Fund in support of ranger outposts to prevent poaching. During early 2023 Zoos SA hosted a Gala dedicated to raising funds for the conservation of Cheetah.</p>



## Connecting visitors with nature

**In 2022-23, we welcomed 468,725 visitors to Adelaide Zoo and 193,697 visitors to Monarto Safari Park.**

As climate change intensifies, shifting environmental landscape places a growing number of species and ecosystems across the globe at risk. Our daily endeavors are centered on facilitating deeper connections between our visitors and the natural world, while enhancing their awareness of our ongoing conservation efforts.

Institutions like Zoos SA serve as powerful educational hubs, inspiring individuals to connect with nature and appreciate the beauty and diversity of the natural world. Through firsthand experiences, we can instill a sense of responsibility and a deeper understanding of the importance of conservation. In this way, Adelaide Zoo and Monarto Safari Park serve as catalysts for a more sustainable and harmonious coexistence between humans and the natural world.

Adelaide Zoo and Monarto Safari Park had a total of 662,422 visitors in 2022-23. This was an increase of 33% from the previous year. This recovery from COVID restrictions comprised Adelaide's highest visitation since 2013-14 and record attendance at Monarto Safari Park.

The birth of three Sumatran Tiger cubs at Adelaide Zoo in December was a standout event which has seen visitors fall in love with Ketambe, Marni and Susu who arrived safe, sound and extremely snuggly in the Lunar Year of the Tiger. With less than 400 of the species estimated to remain in the wild, the births underscore our ongoing commitment to the preservation of critically endangered species.

May was a time of grand celebration as we marked Adelaide Zoo's 140th birthday. The festivities, headlined by the '*Kids Go Free to Adelaide Zoo in May*' initiative were a resounding success and delivered numerous financial and reputational benefits for Zoos SA including additional attendance, connection with new audiences, and increased catering and retail spend on site.

The new Monarto Safari Park Visitor Centre continues to serve the site well, with the facilities standing up to the intense visitation period experienced between Christmas and New Year; proving the need for these larger facilities.

With the Wild Africa precinct soon to open to visitors the planning and work progresses for the Safari Experiences, which will complement the accommodation offerings, are well underway. The Land of the Lemurs experience in Wild Africa opened in October providing visitors insight into one of the world's most endangered primates and a chance to learn more about Zoos SA's conservation work while walking through the exhibit amongst the striped tailed troop.

A generous grant from Variety SA has provided Monarto Safari Park with the opportunity to improve and install features that enhance the experiences of visitors with accessibility requirements. A particular focus has been in the Windana (carnivore) area with installed viewing binoculars and the replacement of mesh to glass panels for unobstructed viewing and widening of tracks.



### Total Attendances\*

Monarto Safari Park	2021-22	2022-23	Variance
Admissions	93,825	127,034	35%
Education	12,832	15,452	20%
Members	27,139	37,700	39%
Other	9,072	13,511	49%
	<b>142,868</b>	<b>193,697</b>	<b>36%</b>

Adelaide Zoo	2021-22	2022-23	Variance
Admissions	162,200	233,797	44%
Education	29,287	39,690	36%
Members	116,118	133,567	15%
Other	47,166	61,671	31%
	<b>354,771</b>	<b>468,725</b>	<b>32%</b>

\*These numbers do not include function attendees

### Delivering on our business goals:

#### Goals

<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	<p>Most animal experiences across Adelaide Zoo and Monarto Safari Park have been safely reintroduced as COVID-19 restrictions have relaxed with a return to a full suite of experiences planned by 2024.</p> <p>The lifting of travel restrictions has seen the ramp-up of interstate and international tourism markets.</p> <p>As part of the Nature Festival and WellFest events we launched Forest Bathing experiences at both sites, a Walk on Country experience and a bird watching experience at Monarto Safari Park.</p> <p>The new Land of the Lemurs experience launched at Monarto Safari Park with over \$40,000 of tickets sold within the first month. The new 'Tiger &amp; Friends' tour was developed and implemented in time with the cubs going out into their habitat. This experience, at Adelaide Zoo, earned over \$65,000 in ticket sales within the first month.</p> <p>A second successful year of Light Creatures, co-presented with Illuminate Adelaide, was delivered and exceeded all expectations.</p> <p>A broad range of special events like school holiday programs and animal experiences were offered across Adelaide Zoo and Monarto Safari Park as part of a revised annual calendar.</p>
<b>Goal 4</b>	<p>We continued to build on the range of experiences available by broadening our visitor markets and partnering with other tour operators, both locally and interstate.</p>

Grow a sound and advancing organisation, applying an innovative business approach.

Quarterly 'Relaxed Zoo Mornings' were introduced at Adelaide Zoo to better cater to the needs of neurodiverse guests. Such is the popularity of this offering; we have expanded these hours to include twice-weekly afternoon sessions.

The 'Kids Go Free to Adelaide Zoo' promotion in May resulted in record monthly attendance and record combined Mother's Day attendance of 5,650 (+60% previous highest in 2018-19).

## Connecting children with nature

**The Nature Theatre Team offers unique opportunities for visitors to get up close to animal ambassadors, to share animal experiences and connect children with nature.**

Through educational and engaging presentations like the Free Flight and Wild Shows, we are able to connect children with nature and share stories and experiences that inspire change.

A Nankeen Kestrel was introduced to the Free Flight team of birds and made his debut out on Adelaide Zoo's impressive central lawns. Known as Digit, this small but mighty bird of prey is being trained to hover on cue. This behaviour replicates the hovering that a Nankeen Kestrel would display in the wild searching of food.

The Nature Theatre Team has also had another success this reporting period with Little Penguin. In total six chicks were bred and were named: Tommy, Piper, Pilly, Kipper, Fry and Squid. The team has continued to connect with and inspire children through Little Penguin talks and encounters.

### Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	The Variety Children's Zoo space continues to inspire our visitors and keepers to share opportunities and show our guests ways to enrich the lives of their own domestic pets including chickens, rabbits and guinea pigs. The daily Wild Show highlights domestic animals but also native mammals, reptiles, amphibians and insects. The Wild Show is a great opportunity to inform and inspire visitors to look for and care for local wildlife.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	The Nature Theatre Team actively participates and supports research in the field in collaboration with the Conservation Team. The team participated onsite in the Red-tailed Phascogale breeding for release program. We continue to care for wildlife in need, recently providing a new home for a Little Penguin who was unable to be released back into the wild. This penguin has joined Adelaide Zoo's Little Penguin colony.
<b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.	Our enrichment program displays the team's conscientious approach to sustainability and working in an ethical manner to visitors. A great example of this was a recent collaboration with local councils to reuse and repurpose large sweeper brushes as 'scratching posts' for animals like goats, tapir and tortoises.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	We continue to look for ways to innovate. One such example is the construction of new aviaries in the Variety Children's Zoo. The new aviaries support animal ambassadors from the Wild Show. All structures have been created with native species in mind.

# Educating the conservationists of tomorrow

**At Zoos South Australia (Zoos SA), our commitment to wildlife conservation extends beyond the habitats of our zoological parks. We recognise the vital role education plays in fostering a deep understanding of the natural world and inspiring future generations to become passionate stewards of our planet. Our education programs are designed to inspire and connect young people with nature and its diverse species.**

Zoos SA's education programs cater to students of all ages, from preschool to primary and secondary school levels. We believe that learning about wildlife and conservation should begin early in life. Our age-appropriate programs engage students through interactive and experiential activities, igniting their curiosity and nurturing a lifelong love for animals and the environment.

Whether it is meeting charismatic zoo animals, or exploring the intricacies of local ecosystems, our programs provide a holistic educational experience. This year saw the team rebuilding offerings in a post-COVID setting while redesigning the programs to suit a new curriculum, version 9 of the Australian Curriculum. Customised programs were popular during this time, allowing the team to build relationships with schools and widen our educational offerings with a range of new subjects such as drama and languages. We were able to engage in larger events organised by other organisations such as the 2023 STEM Aboriginal Learner Congress.

Inspiring the next generation of conservationists and wildlife enthusiasts is a core part of our education programs. At the start of 2023, the team developed the first Careers Day at Monarto Safari Park. The Careers Day allowed students to hike around the park, guided by an educator, visiting important locations within the park. They also attended Keeper Talks and engaged with Zoos SA employees, who offered students insight into the diverse career paths within Zoos SA including those that are beyond the field of conservation. These sessions have become increasingly popular, with all Careers Days at both sites selling out weeks in advance. By showcasing the myriad of opportunities available in the world of wildlife conservation, we have the opportunity to motivate young minds to consider careers that make a positive impact on our planet, starting local but aiming global.

In 2022, Zoos SA's Duke of Edinburgh program 'Duke at the Zoo' achieved an impressive milestone with 27 completions from the 2021 and 2022 groups. This initiative, aimed at young people aged 16 to 20, not only equips participants with valuable life skills but also offers financial support to those facing diverse challenges, whether social or physical. The program's impact continues to grow, as evidenced by the remarkable 43 enrolments for the 2023 year. These numbers reflect our commitment to nurturing resilient, well-rounded individuals who will become the future leaders and champions of conservation.

### Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	Across the year, over 42,000 students from across South Australia attended our recently refreshed programs at Adelaide Zoo and Monarto Safari Park. The Zoo Learning Team provided opportunities for local teachers to learn about citizen science and how to design engaging lesson plans for the classroom, allowing students to take part in local conservation based activities in the classroom.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	The Duke at the Zoo participants continued repairing the Greater Stick Nest Rat habitats at Monarto Safari Park. The Adventurous Journey skillset of the award was focused on resilience, observation and recording skills learned during hiking through familiar and unfamiliar areas of Adelaide Zoo and Monarto Safari Park.

## Visitor experience and events

**We inspire action through a range of experiences and events that increase knowledge and change people's attitudes and behaviours.**

Our dedicated team of visitor-facing staff and volunteers are committed to providing every person with these opportunities and continue to demonstrate exceptional understanding, adaptability, and resilience.

Work has continued on Monarto Safari Park's Wild Africa precinct. Many of the exhibits will have mixed animal species and animals that are already on-site in the Etosha precinct include giraffe, Scimitar-horned Oryx, zebra, Blackbuck, eland, Ostrich, Barbary sheep, Waterbuck and Ibutho, the male Southern White Rhinoceros. Other areas will include the Southern White Rhinoceros to arrive from South Africa, Cheetah, Spotted Hyena, giraffe, Common Hippopotamus, Nyala, Waterbuck and Addax. Construction of the resort, which includes a hotel and luxury glamping, has progressed well and we look forward to welcoming guests in the very near future.

Light Creatures, co-presented with Illuminate Adelaide at Adelaide Zoo, drew almost 52,000 guests in its second year, connecting a multitude of visitors with nature through handcrafted, large format animatronic animal lantern installations and larger-than-life puppets. These lanterns and puppets were created especially for the event.

After a two-year COVID hiatus, Zoos SA's Gala returned in 2023 for a fabulous night of entertainment at the Adelaide Oval. The highly engaged and generous audience (online and in the room) ensured our fundraising targets were exceeded on the night with the live auction, supported by a major car lottery and online auction raising over \$188,000 for the Wild Africa Cheetah precinct and associated infrastructure.

Our much-loved and highly anticipated Boo at the Zoo Halloween event sold out with over 3,750 excited ghosts, ghouls and goblins in attendance. Other highlights included our themed school holiday programs at both sites and 140<sup>th</sup> birthday celebrations at Adelaide Zoo, which were headlined by the highly successful, month-long 'Kids Go Free in May' initiative.

Tourism trade from international and interstate visitors continues to recover from COVID-19 travel restrictions. The new Land of the Lemurs experience and Tiger & Friends experiences at Monarto Safari Park and Adelaide Zoo respectively delivered strong results and positive feedback, while the Lions 360 experience and Panda and Friends tours each experienced significant growth.

Adelaide Zoo and Monarto Safari Park were both recognised with a number of Tourism Awards at a state and national level including:

**Qantas Tourism Australia Awards**

- Major Tourist Attractions – Gold winner, Adelaide Zoo

**South Australian Tourism Awards**

- Major Tourist Attractions – Winner, Adelaide Zoo
- Tourist Attractions – Winner, Monarto Safari Park
- Excellence in Accessible Tourism – Winner, Monarto Safari Park

- Voters' Choice Award – Winner, Monarto Safari Park
- Festivals and Events – Silver, Light Creatures, Adelaide Zoo

**Delivering on our business goals:**

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**Goals**

**Goal 1**

Connect people with nature:  
engage, inform and inspire  
people to act.

We have been able to connect and engage with tens of thousands of our visitors. Through the broad range of experiences and events offered across Adelaide Zoo and Monarto Safari Park as part of the annual calendar, as well as daily animal experiences. The new Land of the Lemurs and Tiger and Friends experiences alongside the key favourites of Lions 360 experiences and Panda and Friends tours all saw significant growth.

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## Connection to country and culture

Since 2010, the Aboriginal Learning on Country Program (ALoC) has provided employment and training to local Aboriginal people, supporting them to achieve accredited training outcomes while contributing to conservation at Monarto Safari Park and in other areas of South Australia.

During 2022 and 2023 funding support from the Murraylands and Riverland Landscape Board, the National Landcare Program and government training subsidies enabled Zoos SA to employ a young Aboriginal person on a full time 12-month traineeship. In early 2023 trainee Nicolas Sumner completed his traineeship, obtaining a Certificate II in Horticulture and has continued in a part-time role within the Conservation and Wild Africa teams.

Key highlights over the past 12 months include ongoing development of the native food garden in Wild Africa and three ALoC trainees successfully completing courses in First Aid and Chainsaw use. Senior Indigenous Conservation Officer, Leon Dodd and Conservation Trainee, Nicolas Sumner joined other Zoos SA staff to undertake Warru conservation field work in the APY Lands.

The first Zoos SA Reconciliation Action Plan was launched in 2021 and since that time a range of actions have been implemented that were focused on establishing foundations on which to advance reconciliation into the future. Over the last 12 months, the Reconciliation Working Group has met five times to provide leadership and governance on the implementation of the RAP.

Significant RAP actions implemented in the last year include four cultural training sessions to management across Zoos SA delivered by Paul Vandenberg and four cultural conversation sessions for staff at Monarto Safari Park delivered by Mark Koolmatrie. Zoos SA's Innovate RAP has been developed over the year and is due to be launched later in 2023.

### Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	The ALoC program connects young Aboriginal people to nature through the delivery of the ALoC training program and connecting with visiting groups. Over the past 12 months, the ALoC Team has delivered sessions about caring for Country and native foods to a range of community groups including the Aboriginal Sobriety Group, Murray Bridge High School and Lerwin Aged-care, Murray Bridge.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	The ALoC Team has continued involvement in a range of conservation activities: on site at Monarto Safari Park, the team undertakes pest, plant and animal management activities and ongoing maintenance of revegetation areas. Off-site the ALoC team has been involved in the Warru conservation program, fauna surveys near Raukkan Aboriginal community and pest animal management at Aroona Sanctuary in the Flinders Ranges.



## Inspiring visitation and influencing change

**Highlighting conservation and driving visitation has continued to be the core foundations of communications over the last year.**

Harvesting the results from previous attendance-driving campaigns and promotions, the Marketing and Public Relations departments continued to build on the great attendance numbers by creating activities and promotions for a range of events, campaigns and opportunities.

In order to effect meaningful change and grow a sustainability consciousness, we must foster a culture of environmental responsibility. Thus, campaigns, messaging and communication focus on inspiring others through education, advocacy, and promoting Zoos SA's conservation efforts. By doing so, we can transition towards a more sustainable future, where our actions align with the principles of environmental stewardship, ensuring a harmonious coexistence between humanity and nature.

Light Creatures, Boo at the Zoo and celebrations of animal recognition days continued to form part of our promotions calendar. Aside from additional ticket sales and audience engagement, events like these provide opportunities for our messaging and mission to reach new and existing audiences, invite others to connect with nature, and to showcase our sites as major tourism attractions.

The new Land of the Lemurs experience was launched on World Lemur Day, 28 October 2022 and led to a two-week period where traffic to the website increased by 67% compared to 2021, with the Land of the Lemurs page being the 5th most visited page on the site. Sales of the experience were also very strong. To the end of Q2, \$43,900 of tickets and \$75,300 in vouchers were sold.

Now a staple on the marketing and PR calendar, the Black Friday weekend (the final weekend in November) is a typically large sales period for brands. To capitalise on this, Zoos SA had a number of special offers and discounts on animal experiences, Adelaide Zoo entry, annual and life memberships, retail products, and special events. To gain social media attention and publicity for our product offerings, a 'Get Inked for Conservation' campaign was launched, seeing staff, volunteers and public getting tattooed (permanent or temporary) to show their commitment to conservation. Over the entire Black and White Weekend period, our sales promotions generated approximately \$237,300 in revenue, including \$104,100 in annual membership revenue. The media stories generated \$50,292 in free news coverage.

The birth of three Sumatran Tiger cubs in late 2022 formed part of a large attendance-driving campaign, aligned with the Lunar Year of the Tiger.

Website visitation continued to grow, reaching a new record of 2.5 million sessions and 1.7 million users, proving an increased reach and audience engagement.

The Marketing team rolled out the new Adelaide Zoo brand across the site and in particular in and around the entrance admissions area and the retail shop. We also celebrated Adelaide Zoo's 140<sup>th</sup> birthday month in May with a Kids go free offer. The promotion ran through eDMs, social media posts and ads, and a website landing page, as well as through earned media from TV and radio. The eDM launching the promotion was hugely successful, with 35% of our 158k subscribers opening the email. Advertising on Facebook and Instagram reached over 100,000 South Australians, and

prompted 2,700 clicks through to our website. These promotions proved successful, with 54,490 attendances to Adelaide Zoo, up 88% on May 2022's attendance.

The PR team continued to attract significant earned publicity through both traditional and online media. In 2022-2023, Zoos SA reached over 170 million people through earned coverage. This coverage was worth more than \$32million in advertising space rate. The frequency of content releases has been appreciated by media locally, nationally and internationally, often providing a much-needed good news story after all of the negative stories about world news.

### Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	Light Creatures event and campaign in July 2022 were a great success reaching a new audience and further connecting with our members. Campaigns are inspiring and aspirational, connecting with our audiences and the public. We reached over 170 million people through earned coverage in the 2022-2023 financial year. This coverage was worth more than \$32 million in advertising space rate. We continued to bring nature and animals into people's homes through digital channels, growing the Zoos SA network and increasing both Electronic Direct Mail database and social followers. Content is always designed to engage, educate and entertain.
<b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.	Campaign messaging was engaging and featured strong call to actions to influence others to follow our example. Publicity continued to broadcast a range of Zoos SA's sustainability initiatives, such as phone recycling 'they're calling on you', RSPO Sustainable Palm Oil and single use plastic reduction.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	The Marketing Team is continually running and reviewing tests on engagement and return on investment for campaigns. Implementing learnings to better maximise a reduced marketing budget and keep Zoos SA, Adelaide Zoo and Monarto Safari Park brands in market and engaging. Zoos SA database has grown from approximately 140,000 to 158,000 subscribers with open rates increasing from an average 32% to 35%. Industry standard for electronic direct mail (eDM) open rate is 21.5%.

## Fundraising to make a difference

**As a conservation charity, Zoos SA delighted in receiving the crucial support of donors, supporters and corporate partners from across Australia, resulting in a net income of \$3,428,753.**

Also playing an important role in this successful acquisition were corporate partnerships with like-minded organisations, individual philanthropy from major donors and a range of fundraising initiatives.

These contributions were used wisely and widely to support a range of habitat upgrades and capital development projects at both sites including further development in Wild Africa, Monarto Safari Park pathways, Australian native species and facilities for Komodo Dragons. Through a partnership with SA Power Networks, we were able to provide an exclusive Illuminate Adelaide Light Creatures Night at Adelaide Zoo for SA Power Networks' (SAPN) staff and their families. We welcomed 2,000 SAPN staff members and 500 charity partners.

We received support from over 19,924 households in 2022-23, including 8,118 new supporters. Animal adoptions remained popular, with the four most popular animals being Meerkats, Cheetah, Sumatran Tiger and African Lions – closely followed by Sumatran Orangutan, giraffe and Tasmanian Devil.

Our annual Zoos SA Gala, held at Adelaide Oval in February, was the first face-to-face dinner since February 2020. Nearly 300 guests attended, and between the car raffle, online bidding, wine wall and live auction, more than \$188,000 was raised towards Cheetah conservation.

<b>Fundraising</b>	<b>2022-23</b>	<b>2021-22</b>	<b>Variance</b>
Corporate Sponsorship (cash)	\$510,034	\$657,002	(\$146,968)
Corporate Sponsorship (in kind)	\$893,611	\$797,078	\$96,533
Grants	-	\$81,300	(\$81,300)
Appeals and Donations	\$1,518,835	\$599,444	\$919,391
Animal Adoption	\$134,262	\$138,832	(\$4,570)
Gala Fundraising Dinner/Auction	\$72,730	\$91,020	(\$18,290)
Bequests	\$299,281	\$1,656,381	(\$1,357,100)
<b>TOTAL</b>	<b>\$3,428,753</b>	<b>\$4,021,057</b>	<b>(\$592,304)</b>

## Delivering on our business goals:

Goals	
Goal 1 Connect people with nature: engage, inform and inspire people to act.	Our donors have been able to feel personally invested in the animals they are supporting through Zoos SA's animal adoption programs. This engagement ensures donors remain interested in the outcome for the species they adopt and has the roll on effect of helping to save these species from extinction!
Goal 2 Save species from extinction: conservation, wildlife health and research.	The funds raised from our collective fundraising efforts have been used for a variety of purposes, often with the end result being to assist with our conservation outcomes. We would have been unable to undertake critical work in breeding programs such as the Plains Wanderer and help to safeguard this precious species without the support of our donors and corporate partners.
Goal 3 Work in an ethical and sustainable manner influencing others to follow our example.	All fundraising campaigns and corporate partnerships are opportunities to help drive positive change for the environment and encourage more sustainable practices. By engaging donors and working with organisations, we can extend our influence to follow our example and dramatically increase the scale of our conservation efforts and impact.
Goal 4 Grow a sound and advancing organisation, applying an innovative business approach.	Zoos SA has a very successful corporate partnerships program with various organisations, who provide both cash and contra items for projects, provision of services and infrastructure. We in turn provide many benefits to those partners so that the partnerships are mutually beneficial. Many projects would be impossible without the support of our numerous partners, as well as funding provided by the South Australian Government; we greatly appreciate them.

## Growing our membership base

**At Zoos SA, we are proud to be owned by our members. As a conservation charity, we rely on the support of our members to continue vital work connecting people with nature and saving species from extinction.**

The support of our dedicated members helps us to not only care for the thousands of animals in our care but contributes to important breeding and conservation programs working to save species from extinction.

In 2022-23, nearly 52,000 people from over 25,000 households were actively involved as a member of Zoos SA. Impressive-renewal rates (75%) show that our members are committed to supporting our work as a conservation charity. We welcomed 302 new life members during this financial year, which increased the overall number of life members to 4,767 individuals.

Membership income	2022-23	2021-22	Variance
Annual Membership	\$3,717,279	\$3,245,108	\$472,171
Life Membership	\$504,802	\$432,038	\$72,764
<b>TOTAL</b>	<b>\$4,222,081</b>	<b>\$3,677,146</b>	<b>\$544,935</b>

### Delivering on our business goals:

#### Goals

<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	Our members are welcome to visit our two sites (as well as a selection of interstate zoos) as often as they wish, giving us endless opportunities for ongoing interactions that inspire the next generation of passionate conservationists. Members also receive discounts on some of Zoos SA's animal experiences and behind-the-scenes tours. We also give members exclusive access to ticket sales prior to general on-sale dates.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	Our twice-yearly Zoo Times publication is a great way to educate our members about the work they are helping us achieve in conservation. We hope that this will give them an understanding of how they are making a difference and help them see opportunities to continue their involvement. To reduce costs we continue to release the May edition in a digital format, with the November edition in print. This process was implemented during COVID and been maintained since.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	Memberships provide a critical revenue source for Zoos SA, comprising over 10% of our annual revenue.

## An advancing organisation

**Our People and Performance team is committed to supporting Zoos SA's passionate and capable 301-strong workforce and 514 volunteers through several programs and initiatives.**

People and Performance has continued supporting the business and our workforce with industrial advice, employee relations, high volume recruitment and importantly wellbeing advice and connections.

Our focus on wellbeing initiatives has included mental health support with expanded and specific employee assistance programs, engagement initiatives and financial information and programs through our business partners to support our workforce and their families.

A new classification structure has been introduced as part of the Enterprise Agreement and will be implemented in the last quarter of 2023. This has aligned employee classifications more closely to the roles, skills and experience of people and will better meet the workforce needs going forward.

We continue to work on key projects including the planning, consultation and implementation of employees' programs and recruitment for the exciting Monarto Safari Park Wild Africa project. We are embedding our updated Values across the organisation and implementing Values based recruitment initiatives to ensure our workforce are aligned with the vision and purpose of Zoos SA.

The focus on continuous improvement for safety and wellbeing will continue to ensure all new development across the organisation is compliant and concentrating on the wellbeing and safety of employees, volunteers and clients.

Development and implementation of a capability framework for leadership development, succession planning and ongoing employee support will be key priorities for People and Performance this year.

### **Delivering on our business goals:**

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#### **Goals**

##### **Goal 4**

Grow a sound and advancing organisation, applying an innovative business approach.

People and Performance has, through consultation processes, positioned Zoos SA to best utilise its resources and build resilience within our workforce. We have developed the capacity to grow to enable us to achieve our goals outlined in our Strategic and Master Plans. We are future proofing our organisation by adopting agile ways of working and introducing change in a systematic and data driven way which will provide the opportunity to grow our effectiveness and meet the needs of our stakeholders.

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## Innovation and information technology

**Information and communication technology continues to develop and strengthen with a focus on customer support, security, remote management, and disaster recovery.**

Improvements made to remote connectivity and security enable staff to work remotely and to seamlessly move between Adelaide Zoo and Monarto Safari Park. The new VPN technology that has been recently introduced has seen considerable improvement in this space.

We continued to review and implement additional web enabled cameras, increasing customers' engagement with our animals while improving security monitoring and safety. Newer infrastructure will continue to be implemented as needs develop and existing hardware reaches the end of its useful lifespan.

Our focus has been on security and vulnerability infrastructure upgrades as there has been a greater shift to strengthen these areas to combat new threats from malicious software. Steps have been taken with an initial implementation, with further plans to improve on this over time.

The development of our booking system continued, and we have implemented additional security measures for our web store. Our Business Analysis team has implemented a new customer relationship management system and are developing a new membership application to better manage new memberships and membership renewals.

Connecting Up has continued to be an exceptional partner in the acquisition of refurbished computer equipment, software licensing and general advice for the not-for-profit sector.

### **Delivering on our business goals:**

<b>Goals</b>	
<b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.	We continued our use of recycled and refurbished equipment, not only reducing cost but also reducing the amount of computer equipment going to landfill. We are also continuing use of e-waste facilities at both sites for unusable equipment.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	We continue to build on the already excellent relationship established with our managed services providers for server, network and telecommunications.



## Our volunteers

**Zoos SA's more than 500 volunteers form an indispensable part of our zoo family and support a variety of activities within the zoo and beyond.**

As a conservation charity, our volunteers play a vital role in helping us in our mission to connect people with nature and save species from extinction. Volunteers at Zoos SA have contributed to 32 programs over the past twelve months with 78,816 hours of service and represents \$1.7 million dollars in value to Zoos SA.

Recruitment and Training continues to be a large focus with the following activities:

- Zoo Watch (Adelaide Zoo) - Worked in partnership with the Animal Welfare and Research Manager to transform Zoo Watch from paper-based data collection to iPad recording using the new Zoo Monitor app. This transformation involved retraining workshops and on-the-job support for 57 existing Zoo Watch volunteers.
- Visitor Operations (Adelaide Zoo) - Created a new role called Visitor Support to help engage visitors for the exhibiting of the Sumatra Tiger cubs. We recruited for this role externally and internally and provided group and on-the-job training.
- Professional Development training for 118 Adelaide Zoo Visitor Operations Volunteers over four days with Animal Behaviour and Creative Programs Manager.
- Walk About Wildlife, Adelaide Zoo Tour Guide training was conducted in September 2022 for 23 recruits with on-the-job mentoring carried into October and November by the Volunteer Mentor Team.
- Variety Children's Zoo, Adelaide Zoo - the role was re-developed and accompanying manual/workbook was re-written.
- Zu Loop Guides, Monarto Safari Park – Conducted training rounds in August/September 2022, November/December 2022, March and June 2023. Tried new recruitment and training process for a crash course in Zu Loop Guiding at Monarto Safari Park in preparation for Easter and April 2023 school holidays.
- Platform Host and Roving Guide training was held at Monarto Safari Park in July/August 2022.
- Behavioural Enrichment and Education for Zoo Animals (BEEZA), Monarto Safari Park – Induction training was held in July and Nov 2022 for new recruits.
- Behavioural Enrichment and Education for Zoo Animals (BEEZA), Monarto Safari Park (BEEZA) – professional development workshop was conducted in January 2023.

### Awards and Recognition

The Volunteers Service Awards were held on 18 May 2023 presenting:

- Outstanding Volunteer Service Awards to Joy Adams, Colin Wells, Geoff Lemmey, Yukari Hijioka, Julie Stewart and Alan Coats.
- The President's Award was given by Chair Juliann Riedstra to Colin Wells a Monarto Safari Park Mallee Minder.
- Years of Service Awards were presented for:
  - 1 year – 57 people
  - 5 years – 38 people
  - 10 years – 9 people



- 15 years – 13 people
  - 20 years – Ruth Hall, Yvonne Shakes, George Smith, Stephanie Eastick, Sandra Griffiths
  - 25 years – Jim Bee
  - 30 years – Lachlan Graham
  - 35 years – Allison Murchie
- A celebratory function was hosted by Her Excellency and Mr Bunten for 83 volunteers and staff at Government House on 24 May 2023.

#### **Delivering on our business goals:**

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##### **Goals**

###### **Goal 4**

Grow a sound and advancing organisation, applying an innovative business approach.

Achieved through the development and ongoing refinement of program-specific training modules for our new volunteers. This involves a combination of class-based and on the job learning as well as collaboration with staff across the organization to present specialist information. This ensures our new volunteers are well prepared and supported in their various roles. They are given ample opportunities for ongoing professional development and cross program activity, which also helps for volunteer engagement and retention.

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## Working ethically and sustainably

**As a conservation charity, we are committed to working ethically and sustainably while influencing others to do the same. With our business' reliance on natural resources and as leaders in species conservation and environmental education, we are in a unique position to highlight environmental sustainability and inspire our visitors to take action in their own lives.**

The ongoing partnership with Peats Soil has produced significant improvement in the gardens and large landscape areas at both sites with the use of the composted animal manure and green waste at each site. The team at Monarto Safari Park has used this material in all of its recently established garden beds around the new front entrance precinct as well as spreading it into some of the larger exhibits and enhancing the existing soil. This has been done with the view of regenerating the soils to allow stronger root development of the pasture grass and improved growth of the established trees and plants.

The team at Adelaide Zoo also used the composted manure and green waste as a soil enhancer in all of its garden and grounds with promising results showing in areas that had previously had slow growth rates associated with poor soil conditions.

As part of our Environmental Management Plan (EMP), Zoos SA developed a single-use plastic policy based on an audit conducted in late 2020. In addition to the reduction in single use plastic food utensils and serving containers, both sites have introduced compostable coffee cup and coffee lid collection containers, which diverts this stream of waste from landfill to green recyclable waste that is composted in partnership with Peats Soil. It is approximated that since launching the initiative at least 40,000 cups have been diverted from landfill.

Both Adelaide Zoo and Monarto Safari Park were named as plastic-free precincts in November 2022 by Deputy Premier of South Australia and Minister for Climate, Environment and Water.

Water and electricity usage across both sites continues to be a large focus in our conservation strategy of energy efficiency. Through water monitoring, Adelaide Zoo was able to locate a significant water leak and take remediation actions to repair the water leak and reduce the amount of loss. Adelaide Zoo has also commissioned two emergency switchboards that will transfer electricity supply from mains to generator in the event of a power failure.

We have improved facilities management processes through the introduction of performance based and financially incentivised contracts with service providers. New contracts have allowed us to claw back money from the scheduled payments if a service is non-compliant under its provisions - this helps us better manage our resources and maintain compliance.

**Delivering on our business goals:**

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**Goals**

**Goal 3**

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

Zoos SA's EMP has a strong focus on sustainable resource consumption and corporate responsibility with advanced ethical social considerations. This focus has been championed across both sites and further supported through waste management with practices underpinned by an integrated waste management and cleaning contract.

**Goal 4**

Grow a sound and advancing organisation, applying an innovative business approach.

We have improved facilities management processes by introducing performance based/financially incentivised contracts with service providers.

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## Transforming our facilities

**Zoos SA owns and operates millions of dollars' worth of infrastructure and facilities across both Adelaide Zoo and Monarto Safari Park.**

Our 20-Year Master Plan sets our vision for the transformation of both Adelaide Zoo and Monarto Safari Park over the next two decades. An extensive organisational-wide capital works program will represent significant investment on the corporate balance sheet.

The ongoing development of Wild Africa continues with the new hotel facility nearing completion and expecting to open to the general public end of 2023/early 2024. Work is also underway in completion of holding facilities for numerous animal species including the Ring-tailed Lemur. Stage One of this facility has already opened and has been a resounding success.

Master Planning at Adelaide Zoo has now been completed with concept drawings developed for the projects identified as part of future development; these projects have been fully costed and are awaiting funding for a start in the very near future.

Works are underway at Adelaide Zoo in the rehousing of the current animals located at the old Children's Zoo space to allow the construction of a new Assets, Foodstore and Horticulture facility. Once this key element is completed, focus will shift to delivering Adelaide's Riverfront precinct. Approximately 250m of river frontage, currently occupied by aging back of house infrastructure, will be transformed into valuable animal habitat space connecting directly with the public realm and providing a point of destination from both inside and outside the Zoo and reinforcing our goal to connect people with nature.

Throughout 2022-23, we delivered a number of smaller capital projects thanks in part to donations and bequests. We are very grateful for this support.

Some key projects delivered in the past financial year at Adelaide Zoo were the construction of Komodo Dragon Stage 2, repairs to South East Asian aviary mesh and replacement of the aviary pathway. We constructed four new aviaries at the Variety Children's Zoo precinct to hold animals currently at back of house at the old Children's Zoo. We completed the external painting of Minchin House, construction of Komodo Dragon transport box and five motor vehicle replacement purchases.

At Monarto Safari Park, we delivered a new Spotted Hyena breeding den, started work on African Lion holding yards, continued with the upgrade of many walking tracks and broke ground and started works on the Common Hippopotamus facility.

Additionally, minor works were completed including the installation of access doors in the animal health centre, purchase of two E-Bikes for staff use and the replacement of five motor vehicles and two tip trailers for Monarto Safari Park and Wild Africa sites.

**Delivering on our business goals:**

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**Goals**

**Goal 1**

Connect people with nature: engage, inform and inspire people to act.

We delivered developments that provide visitor enjoyment in a wide range of weather conditions, catering for the needs of all ages, cultures and abilities. There was a strong focus on accessibility as part of the new Visitor Centre development at Monarto Safari Park.

**Goal 4**

Grow a sound and advancing organisation, applying an innovative business approach.

We continue to develop concepts for priority development projects as part of the 20-Year Master Plan. The concepts are developed with costed project briefs so the Zoo is in a position to be project ready and actively leverage external funding as opportunities arise.

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# Wild Africa and Monarto Safari Park's expansion

Construction of the Wild Africa Safari Project over the last twelve months has been hectic, with the aim to open to visitors late 2023/early 2024. Additional project staff and volunteers have helped step progress up even more; especially with the news that we are now to get Common Hippopotamus around November 2023, which has considerably added to the construction list.

Over the last twelve months, we have been able to complete the Chobe section of Wild Africa with animals now occupying this significant area of the safari experience, as well as completing the first several hundred metres of the rhino raceway. This meant that we could move Ibutho, our Southern White Rhinoceros bull from his holding area into new accommodation in Etosha (one of the Wild Africa areas), with him now being able to graze this already completed section of the safari trail.

New rhino weighbridges were installed in both rhino off-limit facilities and more fencing was completed in the accommodation section (Samburu), with assistance being given by both the Army and our volunteers.

Seven sundowner areas (areas to be used as both rest stops and additional experience venues) have been fenced off with ten operational toilets; these areas are now ready for landscaping. A major new mains water pipeline was laid through the Park, which will service both the Wild Africa experience and accommodation requirements. Nearly half the planned 50 hectares of irrigation for Wild Africa is now in place, this is supplied by sponsored raw water from our partners SA Water. This irrigation will substantially increase our animal stocking rates for the project.

Two further rhino yards and one giraffe facility are in planning for construction.

'The Land of the Lemurs' 3.5 hectare walk-through experience is now open to visitors and is already a great success; even more visitors will get to enjoy this exciting experience when the Safari Resort and Lodge (glamping) opens in late 2023/early 2024.

Maintenance is now a more regular part of the work regime at Wild Africa with pasture management and revegetation areas requiring regular care.

A new shed to house the 14 Safari vehicles was constructed, but is yet to be fitted out.

The first rhino and giraffes now call Wild Africa home, together with zebra, Barbary sheep, oryx, eland, Blackbuck, Waterbuck, and ostrich. More species will follow.

## Delivering on our business goals:

Goals	
<b>Goal 1</b> Connect people with nature: engage, inform and inspire people to act.	Working with external project partners, we are utilising the Wild Africa Project to promote the plight of Southern White Rhinoceros in the wild. Wild Africa will be pivotal to the building of a viable population of rhinos in our region. The creation of special visitor experiences will provide visitors with many exciting and immersive ways to learn more about the species and conservation issues in their range states.
<b>Goal 2</b> Save species from extinction: conservation, wildlife health and research.	The Wild Africa Project will increase Zoos SA's capacity to improve both native and exotic endangered animal breeding programs and house more animals. The project site also has important patches of local native vegetation housing a number of critically-endangered plant species, which we protect through regeneration practices and propagation programs.
<b>Goal 3</b> Work in an ethical and sustainable manner influencing others to follow our example.	All planning and construction activities on the Wild Africa Project site are approached with animal welfare and sustainability best practice in mind. In collaboration with both internal and external industry peers, the design of animal facilities are reviewed to ensure all aspects of animal welfare are considered. When planning for the Wild Africa Project's new infrastructure we address and apply sustainable design criteria to ensure we minimise and, where possible, improve Zoos SA's impact on the natural environment while ensuring protection from natural risks.
<b>Goal 4</b> Grow a sound and advancing organisation, applying an innovative business approach.	The Wild Africa Project has given the opportunity for staff and volunteers to improve their skills as new tasks are undertaken; this comes from being involved with new animal habitat and facility planning and construction. Both animal handling and construction staff are involved with planning and problem-solving activities, and those involved in construction are trained to use a variety of machinery and equipment to ensure we are carrying out all activities with WHS best practice in mind.

## Financial statements

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

## STATEMENT OF PROFIT OR LOSS AND COMPREHENSIVE INCOME FOR THE YEAR ENDED 30 JUNE 2023

[illegible]



<b>Other Comprehensive Income/Expense</b>		
<b>Items that will never be reclassified to profit or loss</b>		
Change in fair value of financial assets at fair value through other comprehensive income	11,255	(33.404)
<b>Total Other Comprehensive Income / (Loss) for the year</b>	<b>11,255</b>	<b>(33.404)</b>
<b>Total Comprehensive Income for the year attributable to members</b>	<b>1,180,413</b>	<b>8,418,539</b>

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

**STATEMENT OF FINANCIAL POSITION**  
**AS AT 30 JUNE 2023**

	<b>2023</b>	<b>2022</b>
	<b>\$</b>	<b>\$</b>
<b>Current Assets</b>		
Cash and Cash Equivalents	3,912,953	4,160,172
Receivables and Prepayments	1,555,446	3,092,048
Inventories	531,748	457,386
<b>Total Current Assets</b>	<b>6,000,147</b>	<b>7,709,606</b>
<b>Non Current Assets</b>		
Financial Assets at Fair Value	442,240	380,356
Property, Plant and Equipment	65,863,253	64,807,995
<b>Total Non Current Assets</b>	<b>66,305,493</b>	<b>65,188,351</b>
<b>Total Assets</b>	<b>72,305,640</b>	<b>72,897,957</b>
<b>Current Liabilities</b>		
Sundry Creditors	1,624,505	3,439,407
Income in Advance	6,813,144	7,269,818
Loans and Borrowings	747,123	155,227
Employee Benefits	4,474,402	3,992,632
<b>Total Current Liabilities</b>	<b>13,659,174</b>	<b>14,857,084</b>
<b>Non Current Liabilities</b>		
Loans and Borrowings	2,002,234	2,741,160
Income in Advance	4,171,819	3,979,621
Employee Benefits	264,778	292,870
<b>Total Non Current Liabilities</b>	<b>6,438,831</b>	<b>7,013,651</b>
<b>Total Liabilities</b>	<b>20,098,005</b>	<b>21,870,735</b>
<b>Net Assets</b>	<b>52,207,635</b>	<b>51,027,222</b>
<b>Reserves</b>	<b>38,424</b>	<b>27,169</b>
<b>Retained Funds</b>	<b>52,169,211</b>	<b>51,000,053</b>
<b>Total Equity</b>	<b>52,207,635</b>	<b>51,027,222</b>

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

**STATEMENT OF CASH FLOWS  
FOR THE YEAR ENDED 30 JUNE 2023**

	<b>2023</b>	<b>2022</b>
	<b>\$</b>	<b>\$</b>
	<b>Inflows</b>	<b>Inflows</b>
	<b>(Outflows)</b>	<b>(Outflows)</b>
<b>Cash Flows from Operating Activities</b>		
Receipts		
Receipts from customers	26,791,472	23,981,257
Donations, Bequests and Sponsorships	3,456,753	3,856,257
Payments		
Wages and Salaries	(19,233,446)	(17,730,598)
Suppliers	(14,528,006)	(14,928,908)
Conservation & Research Projects	(1,636,312)	(1,478,848)
<b>Net Cash Provided by/(Used in) Operating Activities</b>	<b>(5,149,539)</b>	<b>(6,300,840)</b>
<b>Cash Flows from Investing Activities</b>		
Purchase of Property, Plant and Equipment	(4,440,970)	(12,156,809)
Sale/(Purchase) of Shares and Investments	(50,629)	35,859
Interest and dividends received	159,843	42,605
<b>Net Cash Provided by/(Used in) Capital and Investing Activities</b>	<b>(4,331,756)</b>	<b>(12,078,345)</b>
<b>Cash Flows from Financing Activities</b>		
Net State Government Grants Received	5,904,391	6,146,592
Net Other Grants Received	3,540,445	15,386,007
Net Repayment of Borrowings	(147,030)	(463,661)
Payment of Interest	(63,730)	(106,017)
<b>Net Cash Provided by Financing Activities</b>	<b>9,234,076</b>	<b>20,962,921</b>
<b>Net (Decrease)/Increase in Cash Held</b>	<b>(247,219)</b>	<b>2,583,736</b>
<b>Cash at the Beginning of the Year</b>	<b>4,160,172</b>	<b>1,576,436</b>
<b>Cash at the End of the Year</b>	<b>3,912,953</b>	<b>4,160,172</b>

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

**REVENUES AND EXPENSES**  
**FOR THE YEAR ENDED 30 JUNE 2023**

	<b>2023</b>			<b>2022</b>	
	Adelaide Zoo \$	Monarto Safari Park \$	Society \$	Total \$	Total \$
<b>REVENUE</b>					
Admissions	7,842,622	4,337,537	-	12,180,159	8,175,496
Education	725,017	297,592	-	1,022,609	722,509
Sponsorship	144,338	112,558	1,083,868	1,340,764	1,454,080
Bequests	-	-	299,281	299,281	1,656,381
Donations	-	-	1,653,097	1,653,097	738,276
Membership	-	-	4,222,081	4,222,081	3,677,146
Retail Sales	2,130,018	1,380,130	-	3,510,148	2,199,687
Catering Sales	539,728	165,199	-	704,927	432,987
Tours Income	406,265	1,678,092	-	2,084,357	1,614,341
Events	2,075,005	-	175,730	2,250,735	1,316,083
Sundry Sales/Income	173,528	30,231	387,931	591,690	426,993
Insurance Recoveries	-	-	1,014,374	1,014,374	912,467
Grants	164,500	62,361	7,531,899	7,758,760	17,152,656
<b>Total Revenue</b>	<b>14,201,021</b>	<b>8,063,700</b>	<b>16,368,261</b>	<b>38,632,982</b>	<b>40,636,522</b>
<b>EXPENSES</b>					
Salaries, Wages & On-Costs	7,624,306	5,257,691	6,748,170	19,630,167	17,748,984
Animal Care	464,135	763,746	164,648	1,392,529	1,181,067
Maintenance Consumables	1,282,351	1,205,859	120,754	2,608,964	2,327,346
Cost of Sales	935,596	633,332	-	1,568,928	1,119,420
Conservation & Research Projects	-	-	1,636,312	1,636,312	1,478,848
Utilities	496,918	444,039	-	940,957	791,828
Marketing & Promotion	54,674	7	655,218	709,899	781,850
Tours & Experiences	1,439,153	2,098,776	3,064	3,540,993	2,370,786
Depreciation	-	-	3,283,241	3,283,241	2,614,658
Other Expenses	358,950	138,232	1,750,765	2,247,947	1,706,380
<b>Total Expenses</b>	<b>12,656,083</b>	<b>10,541,682</b>	<b>14,362,172</b>	<b>37,559,937</b>	<b>32,121,167</b>

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

**STATEMENT OF CHANGES IN EQUITY**  
**FOR THE YEAR ENDED 30 JUNE 2023**

	<b>Fair Value Reserves</b>	<b>Retained Funds</b>	<b>Total Equity</b>
	<b>\$</b>	<b>\$</b>	<b>\$</b>
<b>Balance at 1 July 2021</b>	60,573	42,548,110	42,608,683
Profit/(Loss) for the year	-	8,451,943	8,451,943
<b>Other Comprehensive Income</b>			
Change in fair value of financial assets at fair value through other comprehensive income	(33,404)	-	(33,404)
<b>Total Other Comprehensive Income/(Loss) for the year</b>	<b>(33,404)</b>	<b>-</b>	<b>(33,404)</b>
<b>Total Comprehensive Income/(Loss) for the year</b>	<b>(33,404)</b>	<b>8,451,943</b>	<b>8,418,539</b>
<b>Balance at 30 June 2022</b>	<b>27,169</b>	<b>51,000,053</b>	<b>51,027,222</b>
<b>Balance at 1 July 2022</b>	27,169	51,000,053	51,027,222
Profit/(Loss) for the year	-	1,169,158	1,169,158
<b>Other Comprehensive Income</b>			
Change in fair value of financial assets at fair value through other comprehensive income	11,255	-	11,255
<b>Total Other Comprehensive Income/(Loss) for the year</b>	<b>11,255</b>	<b>-</b>	<b>11,255</b>
<b>Total Comprehensive Income/(Loss) for the year</b>	<b>11,255</b>	<b>1,169,158</b>	<b>1,180,413</b>
<b>Balance at 30 June 2023</b>	<b>38,424</b>	<b>52,169,211</b>	<b>52,207,635</b>

## Appendix A

### CITES Listed Species

There are approximately 5,600 species of animals and more than 30,000 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 Agriculture, Water and the Environment's cooperative conservation program. Adelaide Zoo currently houses 27 species of CITES I listed animals, while Monarto Safari Park maintains 14 CITES I listed animals.

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

#### Reptilia

Komodo Dragon	<i>Varanus komodoensis</i>
Radiated Tortoise	<i>Astrochelys radiata</i>
Rhinoceros Iguana	<i>Cyclura cornuta cornuta</i>
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>

#### Aves

African Grey Parrot	<i>Psittacus erithacus</i>
Blue-winged Macaw	<i>Primolius maracana</i>
Hyacinth Macaw	<i>Anodorhynchus hyacinthinus</i>
Nicobar Pigeon	<i>Caloenas nicobarica</i>
Orange-bellied Parrot	<i>Neophema chrysogaster</i>
Palm Cockatoo	<i>Probosciger aterrimus</i>
Scarlet Macaw	<i>Ara macao</i>
Timneh African Grey Parrot	<i>Psittacus timneh</i>
Yellow-naped amazon	<i>Amazona auropalliata</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</i>
Greater Bilby	<i>Macrotis lagotis</i>
Greater Stick-nest Rat	<i>Leporillus conditor</i>
Malayan Tapir	<i>Tapirus indicus</i>
Mandrill	<i>Mandrillus sphinx</i>
Mesopotamian fallow deer	<i>Dama mesopotamica</i>
Oriental Small-clawed Otter	<i>Aonyx cinereus</i>
Przewalski's horse	<i>Equus ferus przewalskii</i>
Red Panda	<i>Ailurus fulgens fulgens</i>
Ring-tailed Lemur	<i>Lemur catta</i>
Scimitar-horned Oryx	<i>Oryx dammah</i>
Siamang	<i>Symphalangus syndactylus</i>
Southern white rhinoceros	<i>Ceratotherium simum ssp. simum</i>
Sumatran Orangutan	<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 Zoo and Monarto Safari Park.

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

#### Extinct in Wild

Scimitar-horned Oryx	<i>Oryx dammah</i>
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#### Critically Endangered

Addax	<i>Addax nasomaculatus</i>
Aruba Island Rattlesnake	<i>Crotalus durissus unicolor</i>
Black rhinoceros	<i>Diceros bicornis minor</i>
Brush-tailed Bettong	<i>Bettongia penicillata ogilbyi</i>
Cotton-top Tamarin	<i>Saguinus oedipus</i>
Eastern bongo	<i>Tragelaphus eurycerus isaaci</i>
Elongated Tortoise	<i>Indotestudo elongata</i>
Orange-bellied Parrot	<i>Neophema chrysogaster</i>
Plains wanderer	<i>Pedionomus torquatus</i>
Radiated Tortoise	<i>Astrochelys radiata</i>
Regent Honeyeater	<i>Xanthomyza phrygia</i>
Sumatran Orangutan	<i>Pongo abelii</i>
Sumatran Tiger	<i>Panthera tigris sumatrae</i>
Swift Parrot	<i>Lathamus discolor</i>
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>
White-cheeked Gibbon	<i>Nomascus leucogenys</i>
Yellow-naped Amazon	<i>Amazona auropalliata</i>



## Endangered

African Grey Parrot	<i>Psittacus erithacus</i>
African Painted dog	<i>Lycaon pictus</i>
African Spurred Tortoise	<i>Centrochelys sulcata</i>
Australian Sea-lion	<i>Neophoca cinerea</i>
Chimpanzee	<i>Pan troglodytes</i>
Golden Lion-tamarin	<i>Leontopithecus rosalia</i>
Goodfellow's Tree-kangaroo	<i>Dendrolagus goodfellowi</i>
Java Sparrow	<i>Padda oryzivora</i>
Komodo Dragon	<i>Varanus komodoensis</i>
Malayan Tapir	<i>Tapirus indicus</i>
Mesopotamian fallow deer	<i>Dama mesopotamica</i>
Pit-shelled Turtle (Pig-nosed Turtle)	<i>Carettochelys insculpta</i>
Przewalski's horse	<i>Equus ferus przewalskii</i>
Pygmy Blue-tongue Lizard	<i>Tiliqua adelaidensis</i>
Pygmy Hippopotamus	<i>Choeropsis liberiensis</i>
Red Panda	<i>Ailurus fulgens fulgens</i>
Ring-tailed Lemur	<i>Lemur catta</i>
Siamang	<i>Symphalangus syndactylus</i>
Sun Conure	<i>Aratinga solstitialis</i>
Tasmanian Devil	<i>Sarcophilus harrisii</i>
Timney African Grey Parrot	<i>Psittacus timneh</i>
White-bellied Caique	<i>Pionites leucogaster</i>
Woma	<i>Aspidites ramsayi</i>

## Vulnerable

African Lion	<i>Panthera leo</i>
Aldabra Giant Tortoise	<i>Aldabrachelys gigantea</i>
Barbary sheep	<i>Ammotragus lervia</i>
Binturong	<i>Arctictis binturong</i>
Black-footed Rock wallaby (Black-flanked Rock wallaby)	<i>Petrogale lateralis</i>
Brazilian Tapir	<i>Tapirus terrestris</i>
Broad-headed Snake	<i>Hoplocephalus bungaroides</i>
Chattering Lory	<i>Lorius garrulus</i>
Cheetah	<i>Acinonyx jubatus</i>
Crimson-bellied Parakeet	<i>Pyrrhura perlata</i>
Dingo	<i>Canis lupus dingo</i>
Giant Panda	<i>Ailuropoda melanoleuca</i>
Giraffe	<i>Giraffa camelopardalis</i>
Greater Bilby	<i>Macrotis lagotis</i>
Hyacinth Macaw	<i>Anodorhynchus hyacinthinus</i>
Malleefowl	<i>Leipoa ocellata</i>
Mandrill	<i>Mandrillus sphinx</i>
Plains mouse	<i>Pseudomys australis</i>
Pygmy Marmoset	<i>Cebuella pygmaea</i>
Quokka	<i>Setonix brachyurus</i>
Rhinoceros Iguana	<i>Cyclura cornuta</i>
Small-clawed Otter	<i>Aonyx cinereus</i>
Spur-thighed Tortoise	<i>Testudo graeca</i>

## Appendix B

### Professional memberships:

American Association of Zoo Veterinarians – Dr David McLelland  
American College of Zoological Medicine – Dr David McLelland (Diplomate)  
Aquality Water Quality and Water Treatment in Zoos and Aquariums, Convener – Mark Smith  
Association of Avian Veterinarians – Dr David McLelland, Dr Lynley Johnson and Dr Kathryn Johnson  
Association of Avian Veterinarians Australasian Committee- Dr Kathryn Johnson  
Association of Reptilian and Amphibian Veterinarians – Dr Ian Smith and Dr Kathryn Johnson  
Association of Zoos and Aquariums (AZA) – Mark Smith  
Association of Zoos and Aquariums (AZA) Nutrition Advisory Group (NAG) - Mark Snowball (Affiliate Member)  
Association of Zoos and Aquariums (AZA) SAFE Sharks Advisory Board – Mark Smith  
Association Zoo Horticulturists (AZH) Jeff Lugg  
Australian and New Zealand College of Veterinary Scientists – Dr Ian Smith, Dr David McLelland, Dr Lynley Johnson, Dr Jenny McLelland, Dr Kathryn Johnson  
Australian Society of Herpetologists – Dr Phil Ainsley  
Australian Veterinary Association – Dr Jenny McLelland and Dr Kathryn Johnson  
Children’s University Advisory Board – Board member – Elaine Bensted  
Coast 4Cs, Founding Board Member – Mark Smith  
Comparative Nutrition Society – Mark Snowball  
Conservation Centers for Species Survival (C2S2) and Steering Committee – Peter Clark  
Conservation Council of South Australia – Zoos South Australia  
Conservation Planning Specialist Group (International Union for the Conservation of Nature Species Survival Committee) – Peter Clark  
CPA Australia – Darren Hastings, Ian Gitsham  
Elasmobranch Husbandry Initiative, Convener – Mark Smith  
Environment Institute Advisory Board – Board member – Elaine Bensted  
European Association of Zoos and Aquaria (EAZA) Nutrition Group (ENG) - Mark Snowball  
European Association of Zoo and Wildlife Veterinarians – Dr Ian Smith  
European College of Zoological Medicine – Dr David McLelland (Diplomate - Zoo Health Management; Member of ECZM Scientific Committee and Examinations Committee)  
Fellow of the Royal Entomological Society of London – Peter Clark  
International Union for the Conservation of Nature Special Survival Commission Tortoises and Freshwater Turtle Specialist Group – Dr Phil Ainsley  
Marna Banggara – Executive Committee – Peter Clark  
Nutrition Society of Australia – Mark Snowball (Registered Animal Nutritionist)  
Oceanario de Lisboa, Board Advisory Committee – Mark Smith  
Regional Development Australia Murraylands and Riverland (RDAMR) – Board member – Elaine Bensted  
Society for the Study of Amphibians and Reptiles – Dr Phil Ainsley  
Species 360 Board Selection Committee – Mark Smith

The Australian Rhino Project (TARP) – Board Member – Elaine Bensted

The Australian Rhino Project (TARP) – Operations Group – Peter Clark

Thylation Ltd Board – Board member – Elaine Bensted

Turtle Survival Alliance – Dr Phil Ainsley

University of South Australia (UniSA) Business School Program Advisory Committee – Committee member – Elaine Bensted

Veterinary Nurses Council of Australia – Dianne Hakof

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

Wildlife Disease Association – Dr Ian Smith, Dr David McLelland, Dr Jenny McLelland (Council Member-at-Large), Dr Lynley Johnson, Dr Jerome Kalvas and Dr Kathryn Johnson

Wildlife Ethics Committee – Dr Ian Smith, Dr David McLelland, Dr Lynley Johnson, Deb Barry and Michelle Birkett, Rachel Hemming, Courtney Barks, Heidi Baker

Wildlife Health Australia – Dr Ian Smith, Dr David McLelland, Dr Jenny McLelland, Dr Lynley Johnson and Dr Jerome Kalvas

World Association of Zoos & Aquariums (WAZA) – Committee member Conservation and Environmental Sustainability Committee – Elaine Bensted

World Association of Zoos and Aquariums - Zoos South Australia

ZAA Australian Species Management Program - Jodi Buchecker (Australian Mammals TAG Co-convenor), Mark Smith (Animal Management Committee member)

Zoo and Aquarium Association – Sarah Brown, Beth Pohl

Zoo and Aquarium Association (ZAA) President and Board Member, Finance, Audit & Risk Committee Member – Elaine Bensted

Zoo and Aquarium Association, Horticulture SAG Chair - Jeff Lugg

Zoo and Aquarium Association Ethics Committee, Chair – Dr Phil Ainsley

Zoo and Aquarium Association, Bird TAG Co-Convenor – Chad Crittle

Zoo and Aquarium Association Veterinary Specialist Advisory Group (VetSAG) – Dr Ian Smith, Dr David McLelland (VetSAG Co-Convenor), Dr Lynley Johnson, Dr Jenny McLelland, Dr Jerome Kalvas, Dr Oliver Funnell, Dr Kathryn Johnson, Mark Snowball.

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

## Appendix C

### **ZAA Species Management program holders by Zoos SA employees:**

Black-winged Stilt, *Himantopus himantopus* - Vaughan Wilson, Species Coordinator

Fennec Fox, *Vulpes zerda* – Arlia Hayward, Studbook Keeper

Greater Bilby, *Macrotis lagotis* - Jodi Buchecker, Species Coordinator

Southern Hairy-nosed Wombat, *Lasiorhinus latifrons* Heather Guy, Species Coordinator

Spotted Hyena, *Crocuta crocuta* – Jon Allon, Species Coordinator

White-browed Woodswallow, *Artamus leucorhynchus* - Vaughan Wilson, Species Coordinator

## Appendix D

### **Zoos SA staff representatives on species recovery teams and other key conservation stakeholder groups**

Academic Associate at the Faculty of Veterinary & Agricultural Sciences, University of Melbourne: Dr I. Smith

Adjunct positions at the School of Animal and Veterinary Science, University of Adelaide: Senior Lecturer- Dr I. Smith and Dr D. McLelland; Lecturer Dr J. McLelland, Dr L. Johnson, Dr K. Johnson, Dr O. Funnell and Dr J. Kalvas

Affiliate Partner in Veterinary Education, University of Sydney, Dr D McLelland

Arid Recovery, veterinary support (AHD)

Australian Wildlife Conservancy, veterinary support (AHD)

Birdlife Australia Hooded Plover Monitoring Program, veterinary support (Dr J. Kalvas)

Black-flanked Rock-wallaby, *Petrogale lateralis lateralis*, State: B. Pohl, Dr I. Smith, L. Stockburger

DEW Marine Mammal Response, veterinary support (AHD)

Ecological Horizons, veterinary support (AHD)

Greater Bilby, *Macrotis lagotis*, National J. Buchecker

Southern Bell Frogs (Landscapes Hills and Fleurieu, Nature Glenelg Trust and University of Newcastle), National: Dr J. Kalvas

Marna Banggara Executive Steering Committee: P. Clark

Marna Banggara: P. Clark and Dr I. Smith

Murraylands Threatened Flora Multiple spp., State: Dr P. Ainsley

Orange-bellied Parrot, *Neophema chrysogaster*, National: Dr D. McLelland (Veterinary Technical Reference Group)

Plains Wanderer, *Pedionomus torquatus*, National: P. Clark, M. Smith

Pygmy Blue-tongue Lizard, *Tiliqua adelaidensis*, State: Dr P. Ainsley

Regent Parrot, *Polytelis anthopeplus*, State: Dr D. McLelland and Dr J. McLelland

Western Quoll translocation, Department Environment and Water, State: Dr K. Johnson

Western Swamp Tortoise, *Pseudemydura umbrina*, WA State: Dr P. Ainsley

## Appendix E

### Research

We consider it a core part of our organisational activities to conduct research that seek to advance and inform the goals of Zoos SA. Be it captive breeding, captive management, welfare, wildlife health, zoological medicine, ecology, or education, our research activities provide outcomes both for Zoos SA and the broader conservation community. In many instances, we partner collaboratively with external organisations, and many projects are conducted by undergraduate and post-graduate research students. The volunteers in the Animal Health Centre Laboratory provide support and services to a range of conservation and research projects within and beyond Zoos SA.

The Wildlife Ethics Committee (WEC) is convened jointly by the SA Department of Environment and Water, the South Australian Museum and Zoos SA. A number of Zoos SA staff members serve on the WEC, including Dr I. Smith, Dr D. McLelland, Dr L. Johnson, Dr J. Kalvas, Deb Barry and Michelle Birkett.

### Research Projects

Projects that Zoos SA has been, or continue to be, involved with are listed below under each major collaborator. Students' names, if indicated, are included before the project title and supervisors' names bracketed afterwards.

#### **Zoos SA Lead Partner**

Infectious disease surveillance in bushfire affected koalas on Kangaroo Island

Prognostic factors in bushfire-affected koalas on Kangaroo Island

Total body surface area of koalas calculated by computed tomography for evaluation of burn injuries

#### **SA Department of Environment and Water**

Health monitoring and biotelemetry of Regent Parrots (*Polytelis anthopeplis*) in the SA Riverland

#### **University of Adelaide**

Alexandra Wilson and Emma Agardi: Investigation of *Corynebacterium ulcerans* infection in ringtail possums (RTP, *Pseudocheirus peregrinus*) (Dr D. McLelland, Dr A. Kokosinska, Dr J. McLelland)

Alex McEvoy and Claire Bensted. SW Rhino coagulopathy investigation. (Dr L. Johnson, Dr O. Funnell)

Emily Edwards and Ella Hodgen. Tasmania Devil heart function (Dr L. Johnson)

Iolanthe Lo and Mark Kernick. Captive giraffe haematuria (Dr N. Anderson, Dr L. Johnson and Dr A. Kokosinska)

Jacob Maher, Honours: The changing conservation role of zoos through time

### **Flinders University**

Safety and immunogenicity of a recombinant spike-protein vaccine for SARS-CoV-2 in zoo animals.  
(Dr D. McLelland, Dr I. Smith)

### **University of Melbourne**

Environmental lead exposure in raptors and other scavengers from mainland Australia (Dr J McLelland)

Tick-borne pathogens of reptiles in Australia (Dr J McLelland)

### **Macquarie University**

Avian malaria and other haemoparasites in little penguins (Dr J McLelland, Dr K Johnson, Dr D McLelland)

### **Murdoch University**

Claire Sharp, PhD Candidate (Dr T. Hyndman): Paramyxoviruses in non-domestic cats in Australian Zoos (Dr D. McLelland)

### **Publication list**

Turner, Jessica T., Alexandra L. Whittaker, and David McLelland. 2022. Behavioural Impact of Captive Management Changes in Three Species of Testudinidae. Journal of Zoological and Botanical Gardens 3, no. 4: 555-572. <https://doi.org/10.3390/jzbg3040041>



## Appendix F

### Conference presentations and workshop attendance

1 August 2022 – ANZ Green Ambassador Summit Keynote, Elaine Bensted

9-11 August 2022 - Zoos and Aquarium Association conference, Melbourne attendance and presentations, Elaine Bensted

23-27 October 2022 – WAZA Conference Tenerife, Committee meetings and presentations, Elaine Bensted

27 November – 2 December 2022 – Wildlife Disease Association Australasian Section Annual Conference, Kinglake, Victoria. Ian Smith, Jenny McLelland, Kat Johnson.

19-22 January 2023 – European Zoo Nutrition Conference, Riga, Latvia. Mark Snowball.

5-6 June 2023 – European College of Zoo Medicine Annual General Meeting and Specialty/Committee Meetings, online, David McLelland

8-10 June 2023 - European Association of Zoo and Wildlife Veterinarians, Zoo and Wildlife Health Conference, Spain, online attendance, David McLelland