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### SOUTH LUANGWA NATIONAL PARK

CSL works in Zambia’s South Luangwa National Park in Eastern Province.

The park is 9050km² and the surrounding game management areas where we work are an additional 5000km².

This vast tract of wilderness remains Zambia’s premier wildlife destination.
CEO’S REPORT

2017 Reflection

There is no doubt that 2017 was an extremely challenging year for conservation in South Luangwa. However, I can’t recall anyone ever telling me that conservation work was easy and without challenges. Countless difficulties were faced which were coupled with a very real and grave increase in poaching pressure, fuelled by the international demand for ivory and other wildlife products. Over the past decade or so, South Luangwa enjoyed a history of well supported park protection, with operational funding from tourism being channelled directly back into the protection of the national park. However, recent administrative changes have forced new burdens on park management and South Luangwa now receives a fraction of what it used to and struggles to meet basic needs for wildlife protection and community activities, including anti-poaching field staff, equipment for patrols, transportation and others. After spending the last 16 years working alongside some of the most impressive men and women who have dedicated their lives to protecting wildlife, it is difficult to witness their struggles.

However, despite the challenges and set-backs, CSL and DNPW have a much stronger relationship than ever and are working closely and hard to overcome these problems. 2017 will also be a year that we remember with fighting spirit and making the best use of what we have available to fight the ongoing poaching battle. Great strides and developments were still made in 2017 including refresher training courses, an external assessment was undertaken of CSL allowing us to take a good look at where we are and where we want to be, our Detection Dog Unit expanded, new CSL operations management were employed making the organization more effective and streamlined, new and wonderful donors were engaged, additional DNPW scout camps were supported, scouts were incentivized and our patrol results increased by 132%.

Moving Forward

2018 promises to bring some much-needed changes, and plans include recruit and in-service scout training to address the severe shortages in manpower, provision of new patrol equipment, expansion of SMART to the majority on DNPW camps, start-up of Chipata Detection Dog Unit, continued aerial surveillance of South Luangwa, expansion of our Human Wildlife Conflict Mitigation program and strengthening community activities.

Despite our troubles in 2017, we are confident that working alongside DNPW and partners, we will be back on track in 2018 and are making every effort to reduce poaching. South Luangwa remains an outstanding park with remarkable wildlife sightings and should be on your bucket list.

Lastly, as always, we are truly indebted and grateful to all our donors. Your support is incredible and is the reason we can continue to keep doing this work to help protect the Luangwa Valley.

Sincerely,

Rachel McRobb, CEO, CSL.
# CSL ORGANIZATIONAL STRUCTURE 2017

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>CEO</td>
<td>RACHEL MCROBB</td>
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<tr>
<td>Head of Special Ops</td>
<td>BENSON KANYEMBO</td>
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<tr>
<td>Head of Operations</td>
<td>GEORGE BELL</td>
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<tr>
<td>Veterinarian</td>
<td>DR. MWAMBA SICHANDE</td>
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<tr>
<td>Head of Canine Unit</td>
<td>GODFREY MWANZA</td>
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<tr>
<td>Accountant</td>
<td>ALLAN NDHLOVU</td>
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<tr>
<td>HWC Coordinator</td>
<td>BILLY BANDA</td>
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<tr>
<td>Pilot and GIS Manager</td>
<td>LES DILLARD, PILOT</td>
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<tr>
<td>Unit Leader</td>
<td>RICHARD ZULU</td>
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2017 Highlight News

At the 2017 CSL Annual Conservation Fun Run, we were honoured to host Zambia’s legendary footballer Kalusha Bwalya. What a treat for us all to have Kalusha host the prize giving and support the whole event. Kalusha is now a CSL Ambassador and we hope to see him at the 2018 Fun Run.

In September 2017, the CEO was invited to take part in TUSK’s first wildlife symposium in Cape Town, followed by the TUSK awards. We are proud that yet again another Zambian was nominated. Solomon Chindunukwa DNPW Warden was a winner.

Hosted by Dazzle Africa in Las Vegas on April 14th, 2018. Don't miss out on Dazzle’s first fundraising gala for CSL and ZCP. Amazing auction prizes to be won and a chance to hear first-hand about conservation in Luangwa Valley and Zambia. It's going to be a great event.

Safari on the River is being held for the fourth time in Sacramento, California. Hosted by Africa Hope Fund and CSL trustee Carol Van Bruggen. This amazing event has been hugely successful over the years with great funding being raised for CSL. Please contact CSL for more information.
The Fight Against Poaching

CSL continues to provide critical backbone anti-poaching support to DNPW in South Luangwa. This support includes 65 full time community based anti-poaching scouts, rations and deployments for approximately 350 patrols a year, incentives for recoveries, anti-poaching aerial surveillance, 5 vehicles for patrol deployments, 2 boats for wet season patrol deployments, renovation of Lusangazi scout camp, Detection Dog Units, SMART and cybertracker training and equipment.

2017 patrol results have improved by 132% in large part due to new CSL scout incentives including additional bonuses, scout of the month certificate and refresher scout training. The number of snares removed has almost doubled, hopefully reducing the number of snared animals.

In November 2017, Ian Macallan travelled to Mfuwe again to carry out a review, aimed at analysing the growth of the organisation, and to see if the targets set at the start of the year were being met. CSL continues to expand bringing in new members of staff including George Bell, Head of Operations and Edwin Siwale, Deputy Head of Operations.

Aggressive targets were set for 2017, with almost all of them being met because of new staff coupled with the improvement in bonus incentives, training and motivational initiatives, and various standard operating procedures.

2017 Anti-Poaching Effort and Results

Long patrols – 108
Short patrols – 27
Day patrols - 212
Patrol effort / days – 10,061
Aerial Patrols – 88
Tusks recovered – 101 tusks
Suspects apprehended x 130
Snares recovered – 676
Firearms recovered – 73
Man-days on foot patrols only - 7576
Overall increase in patrol arrests by 132% and a general increase in recoveries of firearms and snares, highlighting a sheer upturn in operational performance.
Aviation Impact Summary

Since 2012, the joint CSL/ZCP Aviation Program continues to be an essential part of conservation efforts focused on anti-poaching and large carnivore research in South Luangwa. Near daily flights of aerial teams in our Cessna 180 aircraft provide timely intelligence that inform management decisions and responses aimed at protecting valuable wildlife resources in a vast, remote area that would be impossible to obtain on the ground. The results and insights generated from just a few hours of aerial surveillance are priceless and we have found the use of light aircraft to be extremely effective and virtually indispensable to our conservation operations.

The aircraft flies on average 5 days per week for various missions including aerial surveillance (CSL), animal tracking (ZCP), ground team assistance, medical transport, gunshot response, and personnel transport. Anti-poaching flight teams usually consist of the pilot, one CSL community scout observer, and one DNPW wildlife police officer observer. Animal tracking flights usually consist of one DNPW biological technician and one ZCP researcher. Our new pilot, Les Dillard, who started in 2017 has a master’s degree in wildlife ecology along with thousands of hours of conservation flying experience. He has most certainly taken our aerial program to another level. When not flying, he manages spatial databases to support anti-poaching patrol reporting and planning and conducts training.

- In 2017, the aircraft flew over 200 hours in support of anti-poaching efforts, covering over 27,000 km.
- Detection and continual surveillance of poachers while communicating to responding ground teams, leading to arrests and seizures of arms and illegal items
- Providing patrol and aerial surveillance of remote and largely inaccessible areas especially along borders and the largely roadless interior areas
- Detecting and reporting of recent illegal activities for ground team follow-up and patrol planning
  - Animal carcasses, especially poached elephants
  - Dry racks used by poachers to preserve meat
  - Overnight camp sights used by poachers
- Quick response to gunshot reports, providing vital intelligence to ground responders
Training Update

In November 2017, Ian Macallan returned to CSL to carry out a bi-annual review and further training for the scouts. Ian was pleased to see the upturn in results since 2016 and was particularly impressed by the energy and enthusiasm of the operational staff.

In terms of training, Ian worked alongside both CSL and their DNPW partners to cement tactics that were developed in 2016. In particular, interoperability between the scouts and the plane, and improving communication skills, were a key focus. This training showed real world benefits on two occasions during his trip, as three firearms were recovered, and a poacher arrested.

In addition, the training programme was expanded to cover a year-round syllabus, highlighting key areas such as ambush tactics, communication and covert approach, and safety in the field. New training was also explored with the Dog Team and Rapid Reaction Team working in concert to track poachers using the dogs.
The CSL Detection Dog Unit is now a well-established arm of CSL and DNPW operations in Luangwa and Eastern Province of Zambia. The purpose of the Canine Unit is to provide additional detection capabilities to enforcement officers to detect illegal wildlife contraband including ivory, bush meat, pangolin scales, leopard and lion skins, illegal wood such as mukula, illegal firearms and ammunition.

The dog unit continues to get excellent results both in arrests and confiscations and also acts as a deterrent to would be traffickers.

In 2017 the team achieved the following:

- 5226 vehicles and motorbikes searched, 82 buildings searched, 20 area searches.
- Apprehended 24 suspects, confiscated 18 firearms, 18 snares, 6 pairs of ivory, 1 leopard skin and 70 kg’s of bush meat.
In Other Dog News

A couple of veterinary emergencies in 2017 required us to airlift our dogs to Lusaka for specialist care. Unsurprisingly, both dogs who travelled to Lusaka in our plane thought nothing of it and assumed it was another patrol deployment.

International Certification for Detection Dog Team

In 2017 the CSL Detection Dog Unit was tested by Chris Ayecock from the American Society of Canine Trainers. All our handlers passed and have been certified internationally. This assessment will need to be carried out again in 2018 to keep the standards of handling high.

Two of our dogs and a select few handlers were also trained by Chris Ayecock in tracking capabilities. The team still has some ongoing tracking training to do but great progress has been made.

Expanding the Unit to Chipata

Due to the high levels of wildlife trafficking in and via Chipata, it was necessary to plan for a dog unit to permanently base out of there. We spent the end of 2017 constructing new kennels and a base in Chipata and expect the team to start operating in early 2018.
The CSL Detection Dog Unit in partnership with DNPW continues to develop and expand in Eastern Province of Zambia. In 2017 CSL received 2 new detection dogs, Rudi and Currant. Currant did not make the full program and was rehomed with a fabulous family in Kitwe. We expect a replacement dog for Currant in March 2018 bringing the figure to 5 dogs, 8 handlers and 2 kennel keepers.

All dogs are trained to detect ivory, firearms, ammunition, bush meat, leopard and lion skins and body parts and pangolins. Working closely with investigations units in Mfuwe and Chipata, the teams achieved the following results in 2017:

- Arrests
- Firearms confiscated
- Leopard skins confiscated
- Road blocks
- Vehicles searched

Wildlife Rescue

CSL and ZCP’s joint veterinarian Dr Mwamba Sichande, and field teams continue to provide wildlife rescue in South Luangwa, and domestic animal services in Mfuwe.

In 2017, in collaboration with ZCP and DNPW CSL de-snared the following animals:

- 3 wild dogs
- 1 giraffe
- 1 lion
- 1 hyaena
- 3 elephants
- 2 zebras
- 4 impalas
- 1 buffalo

It is without a doubt that all these animals would have died without veterinary intervention, tracking abilities of ZCP’s collared animals and the use of our joint aircraft. Through year-round intensive monitoring ZCP follows 21 prides and 16 coalitions of lions collectively numbering over 200 animals and they have already quantified the impacts of snaring by-catch on this population. Radio-collared animals facilitate this work and aerial support enables us to monitor and evaluate the impacts of snaring on these populations as well as the success of anti-snaring activities.

In addition to wildlife work, CSL has a small veterinary clinic where Dr. Sichande is available for domestic animal consultations, surgeries and treatments and runs a wide spread rabies campaign.
Human Wildlife Conflict Mitigation

Increasing human population growth in Lupande Game Management Areas, with expanding settlements and farms, and the corresponding increasing demand for natural resources has resulted in an increase of human–wildlife conflict in Lupande. As part of CSL DNPW Human Wildlife Conflict Mitigation project, we implement the following programs:

➢ Chilli blasting / patrols to deter crop and property raiding elephants
➢ Chilli farming with all produce going to a Zambia based company
➢ Elephant restraining fences using polywire (which cannot be used for snaring)
➢ Construction of elephant safe grain stores to keep maize and other crops protected
➢ Piloting a conflict free zone using all mitigation measures including watchtowers
➢ Production of elephant friendly products (unpalatable to elephants) – chilli, turmeric and lemon grass which are sold to tourists
➢ Community sensitization and education through our annual conservation fun run, workshops, leaflets and education materials
SMART for HWC Data Recording

In a new effort to understand human wildlife conflict in Luangwa, CSL has partnered with Panthera and North Carolina Zoo to design a SMART database for our HWC department. CSL is already using SMART extensively for law enforcement monitoring and we believe our new HWC model will help guide our mitigation planning. The CSL HWC mitigation team underwent training in December. In January 2018, we aim to generate our first monthly report through SMART.

In addition to chilli blasting, CSL works with communities to construct elephant safe grain stores, grow chilli, turmeric and lemon grass (largely unpalatable to elephants) for personal use in protecting crops and, for sale to bring additional cash income to the family.

In 2017 20 chilli patrollers were engaged for 6 months to protect farms, 12 chilli nursery training programs took place, 18 human wildlife conflict workshops, 4 chilli farming workshops, 18 SEKA dramas were held in the community, 5 elephant safe electrical fences are now working, a total of 115 elephant proof grain stores existing, 2793kg’s of dried chilli harvested and over 200 conflicts assessed.
CSL Annual Conservation Fun Run 2017

The 9th CSL annual 10km Fun Run joined forces with the Carnivore Cup (ZCP) resulting in the biggest and best sports day in Mfuwe yet. Over 5000 people attended the event on the day due to the excitement of both events, the prizes available and of course the attendance of Kalusha Bwalya, PS Eastern Province Makebi Zulu and our Mambwe District Commissioner. Largely funded by Zambia’s Elephant Charge, the event was held in June and attracted runners and sports participants for all over Mambwe District.

The Fun Run would not be possible without the efforts and organization of Graph Evans and his team, and Benson Kanyembo and his team of scouts who smoothly run the day’s events including security, all sports events (10km’s, relays, volleyball, netball, football, tug of war), prize giving and hosting of important dignitaries.

Special thanks go to Royal Air Charters, Mfuwe Lodge and the Bushcamp Company for travel and accommodation for our guests.
CSL would like to thank the following major donors for their ongoing financial support to the organization in 2017. CSL is solely reliant on donations and works hard to maintain excellent relations with donors and partners. This is evident in some of the long-term partnerships and funding we have received and continue to receive from international and local donors.

Special mention must be made of the Luangwa’s photographic tourism sector via Luangwa Conservation Community Fund.
In addition, we would like to thank the following individual donors in 2017, their ongoing support to wildlife conservation and community programs in South Luangwa is greatly appreciated by our whole team.

Vona Priest  
Lex Gereardts  
Lyn Sales  
Paul Maxwell  
Steven Stone  
Katerina Ring  
Beth Touma  
Ellen Perrier  
Mari Passananti  
Gero Heine  
Alec & Kate Lindsay  
Anne Sibbald  
Terence O’Rourke  
Christele Teilla  
Lincoln Palmer  
Conan and Linda Butcher  
Chris Brown  
Keith Grundy  
Robert Stacey  
Virginia Kubic  
Virginia Kubic  
Artie Owen  
Johan Elzenga  
Edward Selle Photography  
Julie Mills  
Leonie Bayley  
Singer Rankin  
John & Rachel Clark  
Murray Katz  
Ken Coe  
Todd & Peggy Watkins  
Jess & Adrian Coley  
Paolo Cafarelli  
Cousins Family  
Wildlife Crime Prevention Project  
Tribal Textiles  
Rocky & Kat Hawkins  
Valley Lodgeistics  
Ian Macallan  
Sybille Brodmann  
Odell Dillard  
Robert Bowie  
Terence O’Rourke  
Susan Stribleing  
Jeff Zuba  
Alison Cohen  
Murray Katz  
Denis Rado  
Syd Chipchase  
Kerri Cliff  
Alison Cliff  
Susanna Georgiou  
Wilson Family  
Selfe Family  
Mrs. Warren  
John and Angela Lemon  

Special thanks to Edward Selle, CSL Trustee for his wonderful photography used in this report.
2017 Expenses Percentage

- Human Wildlife Conflict Mitigation
- Social Security
- Administration
- Aircraft
- Veterinary
- Detection Dogs
- Fun Run
- Law Enforcement
- Vehicles
- Training
- Construction