FOSKOR – MERENSKY 400KV POWER LINE

AVIFAUNAL SPECIALIST STUDY



January 2013 (amended to 400KV February 2017)

Prepared by:

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EXECUTIVE SUMMARY

Eskom have identified a need to strengthen the network between the existing Foskor Substation near Phalaborwa, and the existing Merensky Substation near Steelpoort. The proposed project consists of approximately 130km of new 400kV overhead power line between the above two localities. Eskom appointed Nsovo Environmental Consulting to conduct the necessary Environmental Impact Assessment. Since a project of this type has the potential to impact significantly on birds, WildSkies Ecological Services (Jon Smallie) was appointed to conduct an avifaunal specialist study for the project. This project was assessed as a 275kV line in 2012-2013, with several route alternatives. In February 2017 this report was amended to assess a 400kV power line on the approved route only. All relevant bird information was consulted again and updated to provide an updated assessment, bearing in mind that the project is essentially already authorized.

A project of this nature has the potential to impact on avifauna through: habitat destruction and disturbance of birds (both during construction predominantly); and collision of birds with the overhead cables during the operational phase. Birds are also able to cause electrical faults on the power line, through mechanisms explained in this report.

The study area is home to an exceptionally broad diversity of bird species, up to 439 species having been recorded by the first Southern African Bird Atlas Project (Harrison et al, 1997; www.sabap2.adu.org.za). A large number of these (45 species) are Red Listed species (Taylor et al, 2015), and many of these will in fact be at risk of interaction with the proposed power line. The likelihood and implication of these interactions has been assessed by this study. Most of the vulture and large eagle species identified as key for this study do not have healthy populations in South Africa outside of protected areas. The lowveld protected area complex, adjoining to the Kruger National Park, is therefore an extremely important refuge for these species. The same is true for some of the stork species. This makes it extremely important to protect these species from additional human induced threats within these areas. Presumably these species' ranges have contracted over the years to their current state as a result of anthropogenic threats. If these threats are allowed to occur at high levels within the current ranges we could force even more range contraction and place these species at risk of local extinction. In addition to the lowveld area, the escarpment is also extremely important, due to the presence of breeding Taita Falcons Falco faschiinucha and Cape Vultures Gyps coprotheres, amongst many other species. Most of the escarpment is designated as Important Bird & Biodiversity Area status, and should be considered as extremely sensitive. It is therefore imperative that this area be handled carefully with respect to this power line.

The impact of collision of certain bird species with the overhead cables (in particular the earth wires) has been judged to be of medium significance. This can be reduced to low significance with mitigation. In order to implement effective mitigation measures it will be necessary to conduct an avifaunal walk through as part of the site specific Environmental Management Plan (EMP). It is also essential that sufficient time be budgeted for in order to do a thorough job with the walk through. This exercise will identify those exact spans of the power line that require mitigation. Generically speaking the key areas are likely to be river crossings, wetlands, dams and the main escarpment. Some of these areas will require extensive mitigation due to the high risk of collisions.

Destruction and alteration of habitat will be of medium significance. Since this is difficult to mitigate for (a certain amount of vegetation has to be removed or altered) it is not possible to reduce this to low significance with mitigation.

Disturbance of birds is judged to be of low significance. However, if threatened raptors are found to breed close to the alignment during the above recommended avifaunal walk through this would change, and would require case specific management.

The risk of electrical faulting caused by birds is judged to be of medium significance. This is however an impact on the business, not the birds, and is best mitigated reactively if a problem is identified once the line is operational. Those towers that will obviously require Bird Guards installed will be identified during the avifaunal walk through.

This proposed power line route passes through an area that is rich in avifauna, due to its varied geology and vegetation, and the protected status of much of the land (by virtue of game farming). This means that the potential interactions of birds with the power line are likely to be significant. However, given that a power line of this size has to be built between these two substations (we assume that effective network planning has been conducted), the approved route is as wise as possible with respect to avifauna. The upgrade of the voltage from the previously authorized 275kV line to the current proposed 400kv line does not make a material difference to the impacts on avifauna in our view.

The issue of building new transmission power lines near Cape Vulture *Gyps coprotheres* breeding colonies is worthy of discussion here. Although little data exists on Cape Vulture collisions with overhead power lines to date, it is considered likely that where vultures congregate for any reason (such as at colonies) close to power lines birds are likely to collide with the overhead cables. Unfortunately to date little data in this regard exists, due partly to the lack of focused efforts to systematically patrol such power lines. It is recommended that Eskom give this matter urgent attention and preferably initiate a national programme

to monitor existing power lines close to colonies. The findings from such a programme will facilitate more informed impact assessments for power lines in such situations in the future.

If the recommendations of this report are adhered to, this project can proceed.

SPECIALIST DETAILS

Professional registration

The Natural Scientific Professions Act of 2003 aims to "Provide for the establishment of the South African Council of Natural Scientific Professions (SACNASP) and for the registration of professional, candidate and certified natural scientists; and to provide for matters connected therewith."

"Only a registered person may practice in a consulting capacity" – Natural Scientific Professions Act of 2003 (20(1)-pg 14)

Investigator: Jon Smallie (Pri.Sci.Nat)

Qualification: BSc (Hons) Wildlife Science – University of Natal

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Affiliation: South African Council for Natural Scientific Professions

Registration number: 400020/06

Fields of Expertise: Ecological Science

Registration: Professional Member

Professional experience

Jon Smallie has been involved in bird interactions with energy infrastructure for 17 years. During this time he has completed impact assessments for at least 100 projects, many of which have been transmission power lines. A full *Curriculum Vitae* can be supplied on request.

Declaration of Independence

The specialist investigator declares that:

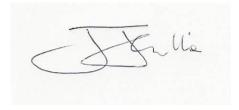
- >> We act as an independent specialist for this project.
- >> We consider ourselves bound by the rules and ethics of the South African Council for Natural Scientific Professions.
- We do not have any personal or financial interest in the project except for financial compensation for specialist investigations completed in a professional capacity as specified by the National Environmental Management Act - Environmental Impact Assessment Regulations, 2014.
- >> We will not be affected by the outcome of the environmental process, of which this report forms part of.
- >> We do not have any influence over the decisions made by the governing authorities.

- We do not object to or endorse the proposed developments, but aim to present facts and our best scientific and professional opinion with regard to the impacts of the development.
- We undertake to disclose to the relevant authorities any information that has or may have the potential to influence its decision or the objectivity of any report, plan, or document required in terms of the National Environmental Management Act Environmental Impact Assessment Regulations, 2014.

Terms and Liabilities

- >> This report is based on a short term investigation using the available information and data related to the site to be affected. No long term investigation or monitoring was conducted.
- >> The Precautionary Principle has been applied throughout this investigation.
- >> Additional information may become known or available during a later stage of the process for which no allowance could have been made at the time of this report.
- >> The specialist investigator reserves the right to amend this report, recommendations and conclusions at any stage should additional information become available.
- >> Information, recommendations and conclusions in this report cannot be applied to any other area without proper investigation.
- >> This report, in its entirety or any portion thereof, may not be altered in any manner or form or for any purpose without the specific and written consent of the specialist investigator as specified above.
- Acceptance of this report, in any physical or digital form, serves to confirm acknowledgment of these terms and liabilities.

Signed on the 20th February 2017 by Jon Smallie in his capacity as specialist investigator.



1. INTRODUCTION & BACKGROUND

Eskom have identified a need to strengthen the network between the existing Foskor Substation near Phalaborwa, and the existing Merensky Substation near Steelpoort. The proposed project consists of approximately 130km of new 400kV overhead power line between the above two localities. Eskom appointed Nsovo Environmental Consulting to conduct the necessary Environmental Impact Assessment. Since a project of this type has potential to impact significantly on birds, WildSkies Ecological Services (Jon Smallie) was appointed to conduct an avifaunal specialist study for the project.

This project was assessed as a 275kV line in 2012-2013 and approved by the DEA. In February 2017 this report was amended to assess the proposed upgrade from a 275kV to 400kV power line on the approved route. The relevant avifaunal information was consulted again and updated for the purpose of this report, bearing in mind that is already authorised.

A project of this nature has the potential to impact on avifauna through: habitat destruction and disturbance of birds (both during construction); and collision of birds with the overhead cables during the operational phase. Birds are also able to cause electrical faults on the power line, through mechanisms explained elsewhere in this report.

The study area is home to an exceptionally broad diversity of bird species, up to approximately 539 species having been recorded by the first and second Southern African Bird Atlas Projects (Harrison *et al*, 1997; and www.sabap2.adu.org.za). A large number of these (48 species) are Red Listed species (Taylor *et al*, 2015), and many of these will in fact be at risk of interaction with the proposed power line. Two key issues for this project are the presence of the large Cape Vulture *Gyps coprotheres* breeding colony at Manoutsa, and a breeding pair of Taita Falcon *Falco faschiinucha* – both on the escarpment close to where the proposed power lines must descend. The likelihood and implication of these interactions has been assessed by this study.

1.1. Terms of reference

The following terms of reference were utilized for this study:

- >> Present the status quo of avifauna in the area.
- >> Identify and discuss avifaunal impacts and rate them according to a specified methodology.
- >> Identify and provide mitigation measures for each impact.

>> Conclude with a recommendation on whether the project should proceed or not and if so to what extent avifauna will be impacted upon.

1.2. Description of proposed project

The proposed power line is approximately 130km in length and will be 400kV. There were four proposed alternative corridors for the power line, as shown in Figure 1. Later in the project two expanded corridors were added as shown in Figure 2. Finally, under the 2013 EIA, the route shown in Figure 3 below was approved for a 275kV power line.

Various possible tower structure designs have been received from Nsovo. These include a self-supporting tower; cross rope suspension tower; and guyed V tower type. Since a line of this size (voltage) cannot electrocute birds, the only implications that the tower structure has for birds is in determining the risk of electrical faulting caused by birds. If the tower structure provides suitable perching space directly above the live conductors there is a strong likelihood that birds will causes faults on the line, as explained elsewhere in this report. The cross rope suspension tower design does not provide much perching space for birds above conductors and so is better in this regard.

The original 275kV power line would have required a servitude of 47m width, whilst the new proposed 400kV line would require 55m. The 400kV towers will be slightly higher, and wider than those used for a 275kV line. This will not make any difference to the impacts on birds in our view.

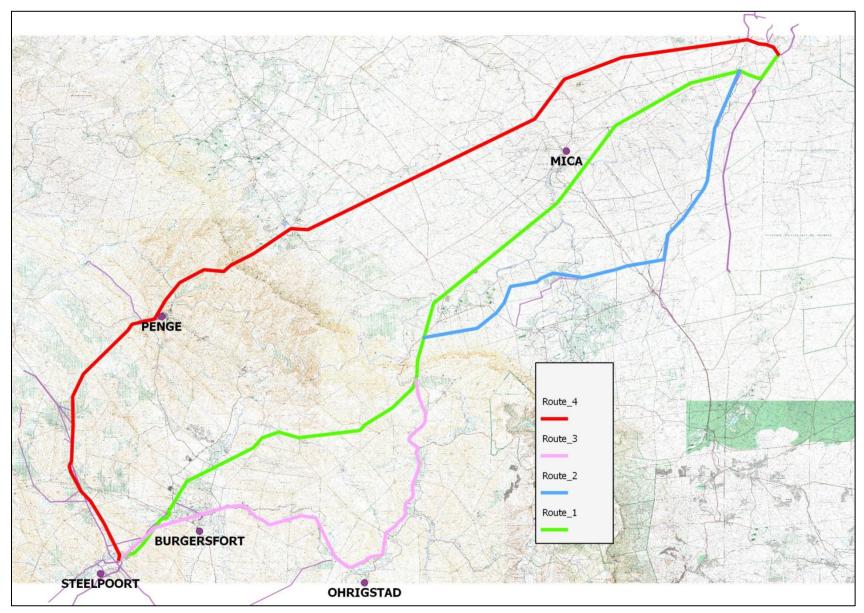


Figure 1. The general study area and proposed routes for the Foskor Merensky 400kV power line.

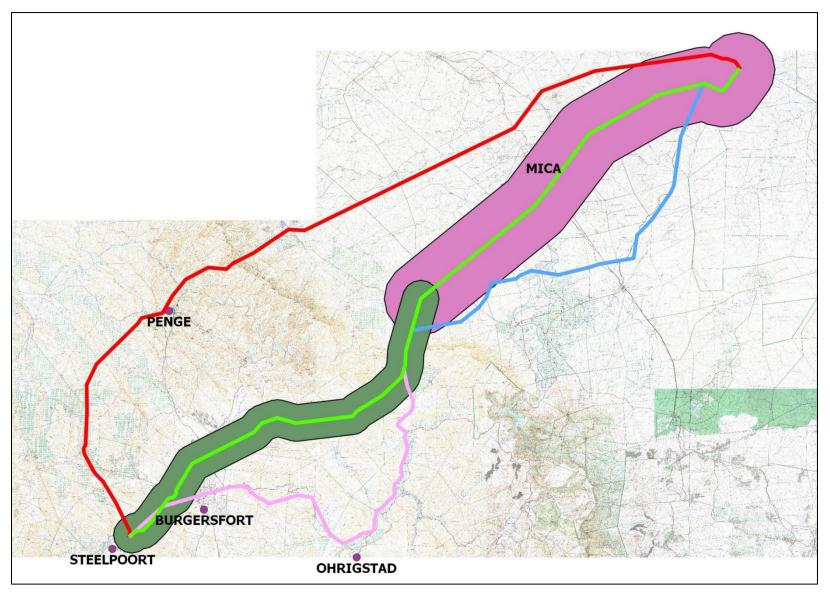


Figure 2. The general study area and proposed routes for the Foskor Merensky 400kV power line – with corridors added.

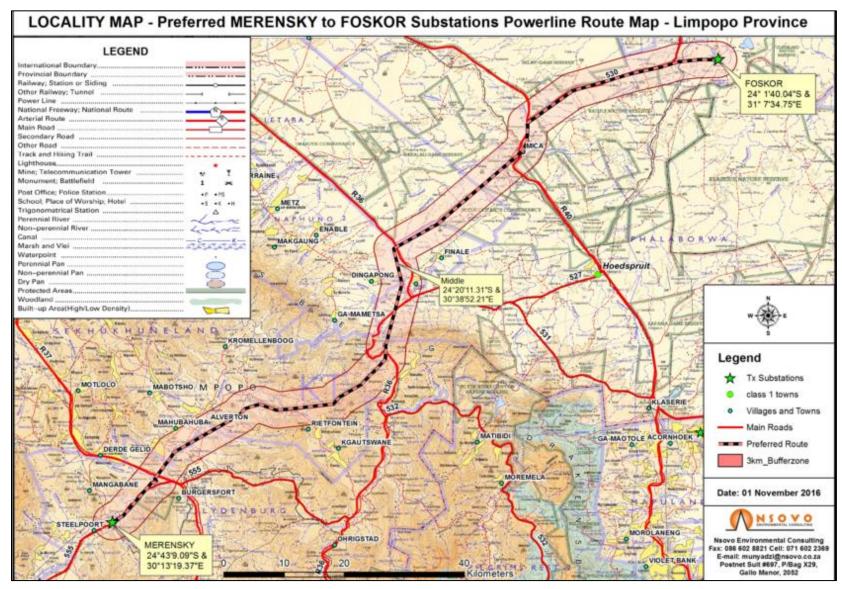


Figure 3. The approved route for the Foskor Merensky 400kV power line.

2. POTENTIAL IMPACTS OF PROPOSED POWER LINE ON BIRDS

2.1. Bird collision with conductors and earth wires

Various bird species are vulnerable to collision with the earth wires or conductors of overhead power lines. This occurs because the birds can't see the cables, particularly against dark backgrounds, or may not be able to take evasive action quickly enough once they do see the cables. Large birds such as cranes, storks, and bustards are particularly vulnerable due to their large wing span and slow flight characteristics. In recent times vultures have also emerged as vulnerable to collision, particularly when congregating at roosts or feeding sites. Only one site in South Africa has to my knowledge been reported to kill large numbers of Cape Vultures through collision, where a vulture restaurant is placed less than 1km from a transmission line. The birds feed at the feeding site and return to roost on the power line when full and at low light conditions (since food is placed at the site in the late afternoon frequently). The Eskom-Endangered Wildlife Trust Strategic Partnership has to date recorded 1 028 Cape Vulture mortalities (1996 to 2017) on power lines, of which 838 were caused by electrocution and 185 by collision. Certain biases exist in this data including: that electrocution victims fall closer to poles and therefore are more likely to be found by maintenance staff; that certain high collision risk sections of power line traverse valleys and steep terrain where detection of carcasses would be unlikely (although the same applies to electrocution to some extent); and various others. However it does seem that based on the actual data collected, electrocution (which is not possible on the proposed 400kV power line) is by far the greater threat to Cape Vultures in South Africa. This does not mean that the collision threat should not be addressed by conservationists and Eskom, but it does place the threat in perspective. At the Manoutsa colony, Neser et al (2011) recognized electrocution and collision as the number one threat to the birds, and recommended mitigation on surrounding power lines. No data is presented in that report on the extent of this risk. Collision is anticipated to be a possible impact on the proposed power line and is discussed in more detail in Section 5. Falcons, such as the Taita Falcon, are also believed to be at high risk of collision with overhead power lines, although they are underrepresented in the data (probably due to the low likelihood of detecting collision victims).

2.2. Habitat destruction during construction & maintenance

During the construction phase of power lines, a certain amount of habitat destruction and alteration takes place on the site. This happens with the construction of access roads, the clearing of the site itself and any associated infrastructure. The servitude also has to be maintained free of any natural vegetation, amongst other reasons to minimize the risk of fire. We note that the new proposed 400kV power line will require a servitude of 55m width, versus the previously authorized 47m for the 275kV. We anticipate that the 400kV line will require slightly

more bush clearing than the originally proposed 275kV line. In our view this difference will be a few metres if anything and will not make a material difference to the significance of this impact. The width of actual bush clearing has not been supplied by Nsovo or Eskom. Based on our experience, the bush clearing does not occur for the full servitude width, and we certainly recommend this. Bush clearing should be kept to an absolute minimum in order to reduce the impact on bird habitat. The destruction or alteration of natural habitat has an impact on birds breeding, foraging and roosting in close proximity to the site. Since the proposed power line routes pass largely through bushveld, this impact could be significant.

2.3. Disturbance of birds during construction & maintenance activities

Similarly, the above mentioned construction and maintenance activities impact on birds through disturbance, particularly during breeding activities. The potential exists for the impact of disturbance to influence a greater area than the site itself. This site is relatively un-disturbed by other infrastructure in parts, particularly in the protected areas. There is a strong likelihood of sensitive species such as large eagles and vultures nesting in the vicinity of the proposed power line alignment. This means that the impact of disturbance could be significant for this project.

2.4. Electrocution of birds on tower structures

Electrocution refers to the scenario whereby a bird bridges the gap between two phases or a phase and an earthed component thereby causing an electrical short circuit. The larger bird species such as vultures and eagles are particularly vulnerable to this impact, as obviously the larger the wingspan and other dimensions of a bird, the greater the likelihood of it being able to bridge the gap between hardware. On transmission lines such the proposed 400kV power line the impact of electrocutions is not possible due to the large clearances between phases and/or phases and earthed structures. This impact is not discussed further.

2.5. Electrical faulting due to birds

Birds are able to cause electrical faults on transmission power lines through their faeces and/or nest material. Large birds sitting above live conductors can cause flashovers when they produce long continuous 'streamers' of excrement which bridges the critical air gap, or through buildup of faeces on insulators to the point where the insulation is compromised and a fault occurs. Material used to build nests on towers can also intrude into the air gap and cause short circuits. With the likely abundance of large eagles and vultures in this study area, this interaction is a strong likelihood for the proposed power line. This impact is very dependent on the exact tower

structure used for the power line, with the cross rope suspension tower being preferred as it does not provide perching area for birds above conductors. This impact has been described in more detail in Section 5.

3. METHODOLOGY

3.1. Information sources used

The following information sources were consulted in order to conduct this study:

- Bird distribution data of the first and second Southern African Bird Atlas Project (Harrison et al, 1997; www.sabap2.adu.org.za) was obtained for the quarter degree squares and pentads which cover the study area, from www.mybirdpatch.org.za, as a means to ascertain which species occur within the study area.
- >> The conservation status of all bird species occurring in the area was determined with the use of The Eskom Red Data Book of Birds of South Africa, Lesotho and Swaziland (Taylor, Peacock & Wanless, 2015).
- >> Google Earth was used to examine the study area on a desktop level.
- >> The location of the project in relation to the Important Bird & Biodiversity Areas (IBBA's) (Marnewick, Retief, Theron, Wright & Anderson, 2015) was examined and is shown in Figure 5.
- >> The location of Co-ordinated Water bird Counts (CWAC) (Taylor *et al,* 1999) was examined and illustrated in Figure 5.
- A site visit was conducted in November 2011 to examine the micro-habitats available in the area and get an overall idea of what the site looks like. Unfortunately access was not possible to all parts of the study area due to much of it being managed as private game farm, and difficult road access near the escarpment.
- >> Information on the Manoutsa Cape Vulture breeding colony was obtained from the VulPro 2016 annual report, and information on Taita Falcon was obtained from Dr Andrew Jenkins, the BirdLife SA website, and Taylor *et al*, 2015.
- >> The Eskom-Endangered Wildlife Trust was consulted to obtain data on vulture collisions on power lines. This is a strategic partnership between Eskom and an NGO, the Endangered Wildlife Trust, which aims to manage and reduce interactions between birds and Eskoms' infrastructure.

4. DESCRIPTION OF RECEIVING ENVIRONMENT

4.1. Vegetation and micro-habitats

This site is comprised of a complex set of vegetation types, particularly in the south. According to Mucina & Rutherford (2006), twenty separate vegetation types occur on or near the site (Figure 4). The majority of these occur above the escarpment in the south of the study area. Below the escarpment, the route passes mostly through "Granite Lowveld", "Lowveld rugged Mopaneveld" and "Phalaborwa Timbavati Mopaneveld". In summary, the majority of the study area is classified as bushveld or mopane veld. In the escarpment area grassland, sourveld and even fynbos exist. It is this diversity that gives rise to the diversity of bird species recorded in the area, described elsewhere in this report.

More informative than vegetation type in understanding bird distribution and abundance, is the micro habitats available to birds on site. Micro habitats are formed by a number of factors, one of which is vegetation. Others include land use, topography, and other anthropogenic influences.

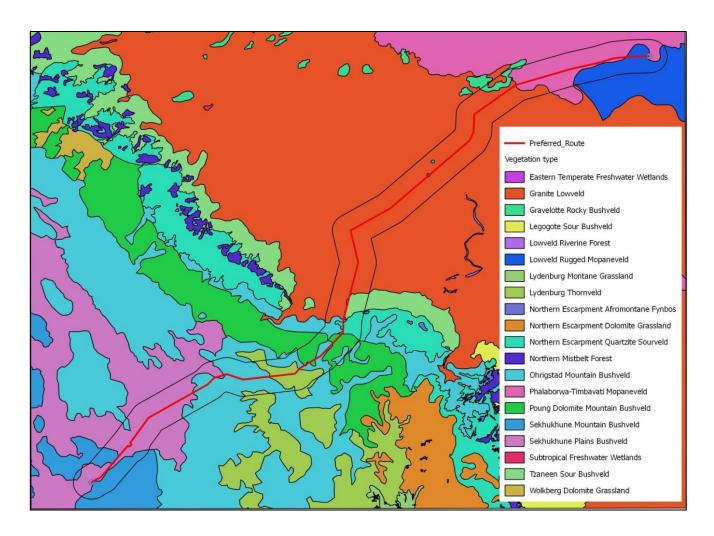


Figure 4. Vegetation classification for the approved Foskor Merensky 400kV power line route.

By far the most dominant micro habitat available to birds in the area is woodland or bushveld. Almost all of the natural vegetation remaining in the study area is woodland, and it varies in nature. In the south towards Steelpoort, much of the woodland consists of lower vegetation and appears degraded in places as a result of firewood harvesting and other human impacts (see Figure 4 a, c and i). In the northern lowveld parts of the study area the woodland is taller and appears in better condition, perhaps as a result of being protected in game farms and protected areas (see Figure 4 f). Where reliable water exists, in the form of rivers, some cultivation has taken place. Arable areas are planted to various crops, and in the lowveld to fruit orchards. Orchards are not particularly attractive micro habitats for sensitive bird species, although some crops are, particularly at certain stages of the crop cycle. Several major rivers are crossed by power line route, including the Steelpoort and Olifants Rivers. These areas represent a different vegetation type normally, with riparian species occurring along their banks. This will generally attract slightly different avifauna to the area. River courses also typically form

flight paths for various species through the landscape and as such represent high risk areas for bird – power line collision.



a – settlement in the Southern section of the study area



b – a typical river crossing in the study area



c – vegetation in the southern parts of the study area



 $\mbox{\bf d}$ – an arable land in the Blyde River area



 $\ensuremath{\text{e}}$ – the Olifants river close to the base of the escarpment



f – small rocky outcrop, typical woodland in lowveld section



g – a young orchard in the lowveld section



i – typical low woodland close to Steelpoort



h - the escarpment, near Penge



j – the main escarpment close to Strydom tunnel.

Figure 5. Examples of the micro habitats available to avifauna in the Foskor Merensky 400kV power line study area

4.2. Relevant bird populations

Up to approximately 539 bird species have been recorded within the broader area within which the proposed power line is situated. It is important to note that these species could have been recorded anywhere in this broader area, and not necessarily exactly along the power line route. It does however mean that these species could occur in the proposed study area if suitable habitat exists.

Table 1 below shows only the Red Listed species recorded by in the area (the full data set is in Appendix 2). A total of 48 Red Listed species have been recorded, of which 2 are "Critically Endangered" (the Blue Swallow *Hirundo atrocaerulea* and Taita Falcon *Falco faschiinucha*), 15 are "Endangered"; 17 are "Vulnerable"; and 17 "Near-threatened". Twenty-two bird species are endemic or near-endemic to the region.

Table 1 shows how important this proposed site is for the Red Listed species. This will ultimately determine the significance of any likely impacts of the proposed power line on these species.

This group of species includes: woodland species, such as vultures and large eagles; riverine species, such as African Finfoot *Podica senegalensis* and storks; and open woodland large terrestrials such as Kori Bustard *Neotis kori* and Secretarybird *Sagittarius serpentarius*. The vultures and eagles are anticipated to interact with the power line predominantly through perching, nesting and roosting on the infrastructure. This may place them at risk of collision with the earth wires. The storks and large terrestrials will be at risk of collision with the power line. In the region of the escarpment, the Taita Falcon *Falco fasciinucha* could also be at risk of collision and disturbance. The Cape Vulture will be at risk of collision, particularly if birds fly along the escarpment frequently, thereby crossing the proposed power line frequently. Most of the species mentioned above are physically large species. These are the species most at risk of direct interaction with the proposed power line. However all species, including the small passerines, could be affected by the power line, particularly through disturbance and habitat destruction. This impact assessment also focuses by necessity on the Red Listed species. This does not mean that the impacts on non-Red Listed species are totally ignored. It is believed that the mitigation proposed for Red Listed species will also provide protection for non-Red Listed species in many cases.

Most of the vulture and large eagle species identified as key for this study do not have healthy populations in South Africa outside of protected areas. The lowveld protected area complex, adjoining to the Kruger National Park, is an extremely important refuge for these species. The same is true to some extent for some of the stork species. This makes it extremely important to protect these species from additional human induced threats within these areas. Presumably these species' ranges have contracted over the years to their current state as a result of anthropogenic threats. If these threats are allowed to occur at high levels within the current ranges we could force even more range contraction and place these species at risk of local extinction.

Several key avifaunal features exist in the proposed study area. These features affect the significance of possible impacts of the proposed power line and influence the selection of the route on which to build the line. These features are described in more detail below:

Kruger National Park – Important Bird & Biodiversity Area (IBBA) – SA002:

The Kruger National Park is approximately 320km long on its north-south axis, and 65km wide on its east-west axis. The IBA includes the private game reserves on its western boundary, such as Klaserie, Timbavati, Sabi Sand and several others. At its closest point the IBBA western boundary is 1.5km from the authorized route for the proposed power line (see Figure 6). The IBA consists predominantly of undulating flats, with a wide geological

diversity giving rise to a diversity of habitats and bird species. The park supports approximately 55% of the bird species recorded in southern Africa (over 490 species). As mentioned elsewhere in this report, the park forms a refuge for various bird species which have suffered from various threats elsewhere in the region. This includes species such as Marabou Stork *Leptoptilus crumeniferus*, Hooded Vulture *Necrosyrtes monachus*, White-backed Vulture *Gyps africanus*, Lappet-faced Vulture *Torgos tracheliotus*, White-headed Vulture *Aegypius occipitalis*, Martial Eagle *Polemaaetus bellicosus*, Bateleur *Terathopius ecaudatus*, Tawny Eagle *Aquila rapax*, Kori Bustard *Neotis kori* and Ground Hornbill *Bucorvus leadbeteri* (Barnes, 1998). Several Drakensberg forest species also migrate down into the park during winter, often along river courses draining off the escarpment.

These factors make this an extremely important IBBA in the national context. It is good that the current proposed power line routes avoid the IBBA to the west. However in reality, the areas immediately west of the western boundary of Kruger and the IBBA are probably almost as important for birds. Every attempt should therefore be made to place the power line as far as possible away from these areas. Unfortunately due to the location of the Foskor Substation, the line has to cross some lowveld bushveld. Given the need for network strengthening in the area this is unavoidable. This will be discussed in more detail in Section 5.2.

Table 1. Red Listed bird species which could occur on site, their preferred micro habitats, likelihood of occurring and importance of the site.

Common name	Scientific name	SAB AP1	SAB AP2	Taylor 2015	TOPS list	IUCN 2013	Endemic/ near	Preferred micro habitat	Likelihood of occurring on site	Relative importance of site
Falcon, Taita	Falco fasciinucha	1	1	CR	VU	NT		Cliffs, gorges	Confirmed breeding	Very high
Swallow, Blue	Hirundo atrocaerulea	1		CR	CE	VU		Mistbelt grassland	Unlikely	
Bateleur	Terathopius ecaudatus	1	1	EN	VU	NT		Woodland	Probable in north	Medium in north
Crane, Grey Crowned	Balearica regulorum	1	1	EN	E	EN		Wetland, grassland, croplands	Possible	Low
Eagle, Martial	Polemaetus bellicosus	1	1	EN	VU	VU		Woodland	Probable in north	Medium in north
Eagle, Tawny	Aquila rapax	1	1	EN	VU	LC		Woodland	Probable in north	Medium in north
Fishing-owl, Pel's	Scotopelia peli	1	1	EN	E	LC		Riverine	Possible in north	Low
Ground-hornbill, Southern	Bucorvus leadbeateri	1	1	EN	Р	VU		Open woodland	Possible	Low
Hawk, Bat	Macheiramphus alcinus	1	1	EN		LC		Woodland	Unlikely	
Marsh-harrier, African	Circus ranivorus	1	1	EN	Р	LC		Grassland, wetland	Possible in south	Low
Stork, Saddle-billed	Ephippiorhynchus senegalensis	1	1	EN	Е	LC		Riverine, floodplain	Probable in north	Medium in north
Stork, Yellow-billed	Mycteria ibis	1	1	EN		LC		Riverine, floodplain, dam, wetland	Probable in north	Medium
Vulture, Cape	Gyps coprotheres	1	1	EN	Е	VU	1	Woodland, grassland	Definite, breeding colony present	Very high
Vulture, Hooded	Necrosyrtes monachus	1	1	EN	E	EN		Woodland	Probable	Medium in Lowveld in north
Vulture, White-backed	Gyps africanus	1	1	EN	E	EN		Woodland	Probable	Medium in north
Vulture, Lappet-faced	Aegypius tracheliotos	1	1	EN	VU	EN		Woodland	Probable	Medium in

										north
Vulture, White-headed	Aegypius occipitalis	1	1	EN	VU	VU		Woodland	Probable	Medium ir north
Blackcap, Bush	Lioptilus nigricapillus	1	1	VU		NT		Indigenous forest	Possible on escarpment	Low
Bustard, Denham's	Neotis denhami	1	1	VU	Р	NT		Grassland	Possible in south	Low
Eagle, African Crowned	Stephanoaetus coronatus	1	1	VU		NT		Indigenous forest	Possible on escarpment	Low
Eagle, Verreaux's	Aquila verreauxii	1	1	VU		LC		Cliffs	Probable on escarpment	Medium
Falcon, Lanner	Falco biarmicus	1	1	VU		LC		Generalist	Probable	Low
Finfoot, African	Podica senegalensis	1	1	VU		LC		Riverine	Probable	Medium
Grass-owl, African	Tyto capensis	1		VU	VU	LC		Grassland, wetland	Possible in south-east	Low
Ibis, Southern Bald	Geronticus calvus	1	1	VU	VU	VU	1	Grassland, cliff	Possible on escarpment	Low
Korhaan, White-bellied	Eupodotis senegalensis	1	1	VU		LC		Grassland	Possible but unlikely	Low
Night-Heron, White-backed	Gorsachius leuconotus	1	1	VU		LC		Riverine	Possible	Low
Painted-snipe, Greater	Rostratula benghalensis	1	1	VU		LC		Wetland	Possible in south	Low
Pelican, Great White	Pelecanus onocrotalus	1		VU		LC		Open water	Possible	Medium
Pelican, Pink-backed	Pelecanus rufescens	1	1	VU	E	LC		Open water	Possible	Medium
Pygmy-Goose, African	Nettapus auritus	1		VU		LC		Riverine	Possible	Low
Secretarybird	Sagittarius serpentarius	1	1	VU		VU		Open woodland	Probable	Medium
Stork, Black	Ciconia nigra	1	1	VU	VU	LC		Riverine, cliff	Possible	Medium
Bustard, Kori	Ardeotis kori	1	1	NT	VU	NT		Open woodland, grassland	Possible	Medium
Crane, Blue	Anthropoides paradiseus	1	1	NT	E	VU	1	Grassland, arable land, wetland, dam	Possible in south	Low
Duck, Maccoa	Oxyura maccoa	1		NT		NT		Open water, dams etc	Possible	Low
Falcon, Red-footed	Falco vespertinus	1	1	NT		NT		Open areas	Possible	Low
Flamingo, Greater	Phoenicopterus ruber	1	1	NT		LC		Dam,	Possible	Low

						floodplain		
Flamingo, Lesser	Phoenicopterus minor	1	1	NT	NT	Dam, floodplain	Possible	Low
Ground-thrush, Orange	Zoothera gurneyi	1	1	NT	LC	Forest	Possible	Low
Harrier, Pallid	Circus macrourus	1		NT	NT	Grassland, wetland, open woodland	Possible	Low
Kingfisher, Half-collared	Alcedo semitorquata	1	1	NT	LC	Riverine	Possible	Low
Roller, European	Coracias garrulus	1	1	NT	NT	Woodland	Probable	Low
Stork, Abdim's	Ciconia abdimii	1	1	NT	LC	Arable lands, grassland, wetland	Probable throughout	Medium
Stork, Marabou	Leptoptilos crumeniferus	1	1	NT	LC	Riverine, floodplain, dam, wetlands, waste sites	Probable in north	Medium

Blyde River Canyon – Important Bird & Biodiversity Area – SA010

The Blyde River Canyon is approximately 20km long and up to 700m deep. The approved power line route passes through this IBA. The gorge is flanked by a number of spectacular peaks and sheer cliff faces. Key features include the Blydepoort Dam, patches of indigenous forest, the cliff faces and patches of montane grassland. This general area is the only known breeding area for Taita Falcon *Falco fasciinucha* - arguably now one of South Africa' most rare bird species (see discussion later). One breeding site appears relevant to the proposed power line at this stage, but other sites may exist that have not yet been discovered (Jenkins, pers comm). The area west of where the Olifants River descends the escarpment has not yet been surveyed at all and could conceivably contain more breeding pairs, and other relevant species. Blue Swallow *Hirundo atrocaerulea* also breed in the grasslands, and a large (the worlds' 4th largest) breeding colony of Cape Vulture (see later discussion) is found at the cliffs at Manoutsa. Black Stork *Ciconia nigra* and Peregrine Falcon also breed in the area.

It is far from ideal for a power line of this nature to be built through this IBBA. Important Bird and Biodiversity Areas are recognized internationally for their importance for the conservation of birds. Any developments within an IBBA face likely criticism from BirdLife South Africa and Birdlife International. Since there is already an existing power line of this size, and countless other smaller voltage lines within this IBBA, it would however be difficult to argue that no power lines can be built in IBBA's. Also the boundaries of IBBA's do not always reflect any distinct difference in bird abundance on the ground. For example examining Figure 6 one can see that IBBA SA010 has a very abrupt western boundary, which has been drawn in along farm boundaries predominantly. The area immediately west of this boundary, and in fact up until SA005 could be argued to be equally important for the protection of birds, if perhaps a little less well known and studied. In addition, the IBBA boundaries should according to BirdLife South Africa be considered soft boundaries. In other words they are a broad indication of where the important bird species reside, and developments outside of the boundaries can still impact on the birds within the IBBA itself. The result is that the entire escarpment could be argued to be important for the protection of birds. This would pose a significant challenge to the distribution of electricity to the lowveld.

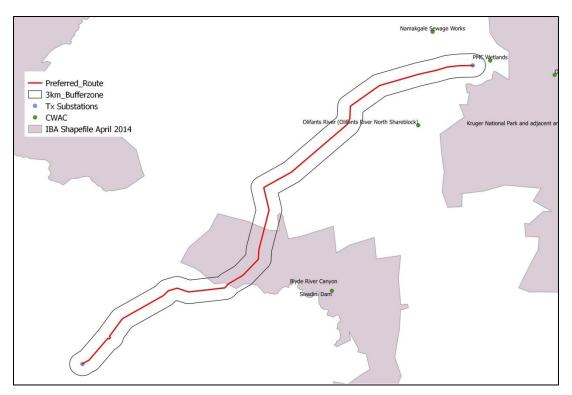


Figure 6. Avifaunal features in the Foskor Merensky 400kV power line study area. Important Bird & Biodiversity Areas (IBA) and Co-ordinated Water bird Count (CWAC) locations are shown.

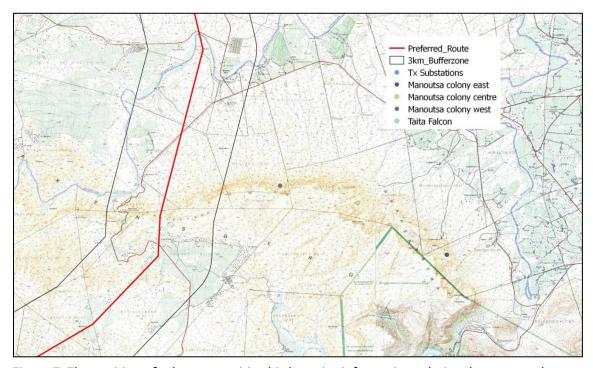


Figure 7. The position of relevant sensitive bird species information relative the approved route.

Figure 7 illustrates the escarpment area. A known Taita Falcon breeding site is situated approximately 2km west of the approved route. The western part of the Manoutsa Cape Vulture breeding colony is approximately 6.8km east of approved route. It is our opinion that this distance is sufficient to prevent disturbance of the vulture colony, and the falcon breeding, so only collision with the power line remains as a potential threat. This has been discussed in Section 2. Where the power line traverses the escarpment, the new line must be built adjacent to the existing, on the centre line of the corridor. It must not be built more west (As it will become too close to the Taita Falcon breeding area) or east (too close to Cape Vulture breeding colony).

Figure 6 also shows the position of Co-ordinated Water bird Count (CWAC) sites close to or in the study area. These are sites where water birds are regularly counted. Although they are not necessarily sensitive features, and are often man made (such as the Namakgale Sewage Works site) they give a good indication of which water associated bird species can be expected in the area. Three such sites exist close to the authorized power line route in the north: Namakgale Sewage Works; Olifants River; and PMC Wetlands. The Namakgale Sewage Works site has records for most of the more common water birds, and also Yellow-billed and Marabou Storks, both key species for this study. The Olifants River site has records for African Fish Eagle and Pel's Fishing Owl, and the PMC Wetlands site has records for African Fish Eagle, Pel's Fishing Owl, Pink-backed Pelican, Marabou Stork, Saddle-billed Stork, Woolly-necked Stork, Yellow-billed Stork, and Greater and Lesser Flamingo. Although these sites are all some distance from the proposed alignments, the data does bear relevance in terms of which bird species can be expected in the broader area.

Taita Falcon

The global population of this species is estimated at 1 000 adults (Birdlife International 2014). Only approximately 40 current and active breeding pairs of Taita Falcon exist globally (Jenkins *et al*, 2008). Seven of these breeding sites are in SA (Taylor *et al*, 2015). The escarpment area relevant to this proposed power line has been surveyed several times for this species (Jenkins *et al* 2008; Jenkins 2010; Jenkins 2007, Birdlife SA 2013). Early in December 2013 the survey results were not encouraging. Two known sites appeared to be permanently vacant, three held only single birds, two held pairs that failed to breed in 2013, and only two territories featured actively breeding pairs, with a total of only five chicks raised to near-fledging age.

Most relevant to this assessment is the location one known breeding site approximately 2km west of the approved route. As described elsewhere in this report this clearance may not be reduced at all for any reason.

Cape Vulture

The Manoutsa breeding colony consists of 621 breeding pairs at the last count (2016 – VulPro 2016). This is an exceptionally important breeding colony for the species, and risks to it should be managed carefully. The power line route is currently a distance of approximately 6.8km west of the westernmost part of the breeding colony. As described elsewhere in this report this clearance may not be reduced at all for any reason.

5. EVALUATION OF IMPACTS AND CHOICE OF ALTERNATIVE

5.1. Evaluation of impacts

The impacts of the proposed development have been assessed and rated using the tables below and the criteria found in Appendix 1 (standard criteria for a study of this nature):

Table 2. Assessment of the impact of Bird collisions on the overhead cables, in particular the earth wires.

Nature: Bird collisions on the overhead cal	oles, in particular the earth wires	
	Without mitigation	With mitigation
Extent	2	2
Duration	4	4
Magnitude	4	4
Probability	4	2
Significance	40 (medium)	20 (low)
Status	Negative	Negative
Reversibility	Irreversible	Irreversible
Irreplaceable loss of resources	Yes birds killed	Yes birds killed
Can impacts be mitigated	Yes – through marking relevant sections of power line	

Mitigation: High risk sections of power line will need to be marked with a suitable, effective Eskom approved line marking device on the earth wires as per Eskom standards. These high risk sections of line need to be identified once the final route is available and tower positions have been surveyed and finalized. This will need to be done through an avifaunal walk through as part of the site specific EMP. It will be Eskom's responsibility to monitor the effectiveness of this mitigation and add further mitigation if it is not effective enough or if the materials do not last. This detail should be written into the conditions of the Environmental Authorisation. At this stage it is possible to say that all river crossings, the escarpment, and all line close to dams will need to be mitigated.

Eskom should also plan and implement a systematic monitoring programme for existing power lines close to Cape Vulture breeding colonies nationally, so that data is obtained on this matter.

Cumulative impacts: The cumulative impacts of power lines on the relevant species (listed elsewhere in this report) will be significant if not managed, since these species mostly already suffer from significant power line mortalities.

Residual impacts: Low – if lines were removed, impact would cease

Table 3. Assessment of the impact of habitat destruction and alteration on birds.

Nature: Habitat destruction and alteration	during construction	
	Without mitigation	With mitigation
Extent	1	1
Duration	4	4
Magnitude	3	3
Probability	4	4
Significance	32 (medium)	32 (medium)
Status	Negative	Negative
Reversibility	Irreversible	Irreversible
Irreplaceable loss of resources	Yes- bird habitat	Yes-Bird habitat
Can impacts be mitigated	Yes – but only partially, a	
	certain amount of habitat	
	destruction is inevitable	

Mitigation: Standard construction best practices must be followed. A construction EMP must be developed and implemented by an on-site environmental control officer during construction. In this way the impact can be mitigated to an acceptable level. Key issues are location of construction camp, access of large vehicles and heavy machinery to sensitive areas, and control of labour (i.e. preventing firewood harvesting etc). Key sensitive areas include the IBA, the escarpment, river crossings and natural bushveld. An avifaunal walk through should be conducted once the power line alignment is finalized, to confirm the above information.

Cumulative impacts: for the more sensitive habitats near the escarpment this could be quite significant Residual impacts: High – if lines were removed, impact would persist

Table 4. Assessment of the impact of disturbance of birds during construction.

Nature: Disturbance of birds during construction					
	Without mitigation	With mitigation			
Extent	1	1			
Duration	2	2			
Magnitude	4	4			
Probability	3	3			
Significance	21 (Low)	21 (Low)			
Status	Negative	Negative			

Reversibility	Reversible	Reversible
Irreplaceable loss of resources	Possible loss of breeding	Possible loss of breeding success
	success	
Can impacts be mitigated	Yes -partially	

Mitigation: An avifaunal walk through must be conducted on the final authorized power line alignment, to identify any breeding sites of sensitive bird species. Care must be taken if any breeding sensitive species are encountered close to the servitude. Case specific advice can be sought from the avifaunal consultant should such sites be found. Where the power line traverses the escarpment, the new line must be built adjacent to the existing, on the centre line of the corridor. It must not be built more west (As it will become too close to the Taita Falcon breeding area) or east (too close to Cape Vulture breeding colony).

Cumulative impacts: Negligible

Residual impacts: Low – temporary impact

Table 5. Assessment of the impact of electrical faulting on the power lines.

Nature: Electrical faulting on the power li	nes	
	Without mitigation	With mitigation
Extent	1	1
Duration	4	4
Magnitude	4	3
Probability	4	2
Significance	36 (Medium)	16 (Low)
Status	Negative-for business	Negative-for business
Reversibility	Reversible	Reversible
Irreplaceable loss of resources	No	No
Can impacts be mitigated	Yes – quite straight forward	

Mitigation: It is recommended that this issue be assessed when the tower structure is finalized and appropriate mitigation measures developed at that stage. The cross rope suspension tower would be preferred in this regard as it provides less perching substrate for birds above conductors.

Cumulative impacts: n/a

Residual impacts: Low

5.2. Evaluation of alternatives

Since the route alternatives were already dealt with the original 2013 assessment, this section will focus only on the difference between the previously approved 275kV power line and the now proposed 400kV line.

There is essentially very little difference in the impacts on avifauna of a 400kV line versus a 275kV line from an avifaunal perspective. The width of the bush cleared may be slightly greater for the larger voltage line, although this is speculative. If it is this would increase the impact of habitat destruction slightly, although not enough to change the categorical ratings in Section 5.1. The other impacts of collision with earth wires, disturbance and electrical faulting will be unchanged by the change in voltage. The slight increase in tower height and width as a result of the increased voltage to 400kV would not materially increase the significance of impacts on avifauna.

6. CONCLUSION

This proposed 400kV power line route passes through an area that is rich in avifauna, due to its varied geology and vegetation, and the protected status of much of the land (by virtue of game farming). This means that the potential interactions of birds with the power line are likely to be of relatively high significance. However, given that a power line of this size has to be built between these two substations (we assume that effective network planning has been conducted), the approved route is as wise as possible with respect to avifauna. It is also essential that the other recommendations of this report are accepted and implemented, in particular the avifaunal walk through to be done during the site specific Environmental Management Plan for the line. This walk through will identify sensitive sections of the routes for collision mitigation, and will as far as possible identify any large breeding raptors close to the alignment.

Although little data exists on Cape Vulture collisions with overhead power lines, it is considered likely that where vultures congregate for any reason (such as at colonies) close to power lines birds are likely to collide with the overhead cables. Unfortunately to date little data in this regard exists, due partly to the lack of focused efforts to systematically patrol such power lines. It is recommended that Eskom give this matter urgent attention and preferably initiate a national programme to monitor existing power lines close to colonies. The findings from such a programme will facilitate more informed impact assessments for power lines in such situations in the future.

If the recommendations of this report are adhered to, this project can proceed.

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APPENDIX 1- Criteria for assessment of the impacts

The following criteria were used to evaluate the significance of the anticipated impacts:

Extent of the impact:

The extent of the impact was assessed accordingly:

- (1) Limited to the site and its immediate surroundings
- (2) Local/Municipal extending only as far as the local community or urban area
- (3) Provincial/Regional
- (4) National i.e. South Africa
- (5) Across International borders

Duration of the impact:

The lifespan of the impact was assessed to be:

- (1) Immediate (less than 1 year)
- (2) Short term (1-5 years)
- (3) Medium term (6-15 years)
- (4) Long term (the impact will cease after the operational life span of the project)
- (5) Permanent (no mitigation measures of natural process will reduce the impact after construction)

Magnitude of the impact:

The magnitude or severity of the impacts is indicated as either:

- **(0)** None (where the aspect will have no impact on the environment)
- (1) Minor (where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected),
- (2) Low (where the impact affects the environment in such a way that natural, cultural and social functions and processes are slightly affected),
- (3) Moderate (where the affected environment is altered but natural, cultural and social functions and processes continue albeit in a modified way),
- (4) High (where natural, cultural or social functions or processes are altered to the extent that it will temporarily cease), or

• (5) Very high / don't know (where natural, cultural or social functions or processes are altered to the extent that it will permanently cease).

Probability of occurrence:

The likelihood of the impact actually occurring was indicated as either:

- (0) None (impact will not occur)
- (1) Improbable (the possibility of the impact materializing is very low as a result of design, historic experience or implementation of adequate mitigation measures)
- (2) Low probability (there is a possibility that the impact will occur)
- (3) Medium probability (the impact may occur)
- (4) High probability (it is most likely that the impact will occur)
- (5) Definite / do not know (the impact will occur regardless of the implementation of any prevention or corrective actions or it the specialist does not know what the probability will be based on too little published information)

Status of the Impact:

The impacts are assessed as either having a:

- Negative effect (i.e. at a cost to the environment)
- Positive effect (i.e. at a benefit to the environment)
- Neutral effect on the environment.

Accumulative Impact:

The impact of the development is considered together with additional developments of the same or similar nature and magnitude. The combined impacts may be:

- Negligible (i.e. the net effect is the same as a single development)
- Marginal (i.e. the impact of the two developments of a similar nature is less than twice the impact of a single development. This implies it is better to place the two developments in the same environment rather than in separate environments.
- Compounding (i.e. the impact of the two developments is more than twice the impact of two single developments. This implies that it is better to split the two developments into separate environments.

Significance of the Impact:

Based on a synthesis of the information contained in the points above, the potential impacts were assigned a significance weighting (S). The weighting is formulated by adding the sum of the numbers assigned to extent (E), duration (D) and magnitude (M) and multiplying this sum by the probability (P) of the impact hence S=(E+D+M)P.

- Low (less than 30 points): the impact does not have a direct influence on the decision to develop the area
- Medium (30-60 points): the impact could influence the decision to develop in the area unless it is effectively mitigated
- *High (above 60 points)*: where the impact must have an influence on the decision to proceed to develop in the area

APPENDIX 2. BIRD DATA FOR THE SITE FROM SABAP1 & SABAP2

'1' denotes presence not abundance

Common name	Scientific name	SAB AP1	SAB AP2	Taylor 2015	TOPS list	IUCN 2013	End emic	Near- Ende
								mic
Apalis, Bar-throated	Apalis thoracica	1	1					
Apalis, Yellow-breasted	Apalis flavida	1	1					
Avocet, Pied	Recurvirostra avosetta	1	1					
Babbler, Arrow-marked	Turdoides jardineii	1	1					
Barbet, Acacia Pied	Tricholaema leucomelas	1	1					
Barbet, Black-collared	Lybius torquatus	1	1					
Barbet, Crested	Trachyphonus vaillantii	1	1					
Bateleur, Bateleur	Terathopius ecaudatus	1	1	EN	VU	NT		
Batis, Cape	Batis capensis	1	1					
Batis, Chinspot	Batis molitor	1	1					
Bee-eater, Blue-cheeked	Merops persicus	1						
Bee-eater, European	Merops apiaster	1	1					
Bee-eater, Little	Merops pusillus	1	1					
Bee-eater, Southern Carmine	Merops nubicoides	1	1					
Bee-eater, Swallow-tailed	Merops hirundineus	1	1					
Bee-eater, White-fronted	Merops bullockoides	1	1					
Bishop, Southern Red	Euplectes orix	1	1					
Bishop, Yellow	Euplectes capensis	1	1					
Bishop, Yellow-crowned	Euplectes afer	1	1					
Bittern, Dwarf	Ixobrychus sturmii	1	1					
Bittern, Little	Ixobrychus minutus	1	1					
Blackcap, Bush	Lioptilus nigricapillus	1	1	VU		NT		
Bokmakierie, Bokmakierie	Telophorus zeylonus	1	1					
Boubou, Southern	Laniarius ferrugineus	1	1					
Brownbul, Terrestrial	Phyllastrephus terrestris	1	1					
Brubru, Brubru	Nilaus afer	1	1					
Buffalo-weaver, Red-billed	Bubalornis niger	1	1					
Bulbul, Dark-capped	Pycnonotus tricolor	1	1					
Bunting, Cape	Emberiza capensis	1	1					
Bunting, Cinnamon-breasted	Emberiza tahapisi	1	1					
Bunting, Golden-breasted	Emberiza flaviventris	1	1					
Bunting, Lark-like	Emberiza impetuani		1					
Bush-shrike, Black-fronted	Telophorus nigrifrons	1	1					
Bush-shrike, Gorgeous	Telophorus quadricolor	1	1					
Bush-shrike, Grey-headed	Malaconotus blanchoti	1	1					
Bush-shrike, Olive	Telophorus olivaceus	1	1					
Bush-shrike, Orange-breasted	Telophorus sulfureopectus	1	1				1	

Bustard, Black-bellied	Lissotis melanogaster	1	1	NT		LC		
Bustard, Denham's	Neotis denhami	1	1	VU	Р	NT		
Bustard, Kori	Ardeotis kori	1	1	NT	VU	NT		
Buttonquail, Kurrichane	Turnix sylvaticus	1	1					
Buzzard, Forest	Buteo trizonatus	1	1					
Buzzard, Jackal	Buteo rufofuscus	1	1					
Buzzard, Lizard	Kaupifalco monogrammicus	1	1					
Buzzard, Steppe	Buteo vulpinus	1	1					
Camaroptera, Green-backed	Camaroptera brachyura	1	1					
Camaroptera, Grey-backed	Camaroptera brevicaudata	1	1					
Canary, Black-throated	Crithagra atrogularis	1	1					
Canary, Brimstone	Crithagra sulphuratus	1	1					
Canary, Cape	Serinus canicollis	1	1					1
Canary, Forest	Crithagra scotops	1	1					
Canary, Yellow-fronted	Crithagra mozambicus	1	1					
Chat, Anteating	Myrmecocichla formicivora	1						
Chat, Arnot's	Myrmecocichla arnoti	1	1					
Chat, Buff-streaked	Oenanthe bifasciata	1	1				1	
Chat, Familiar	Cercomela familiaris	1	1					
Cisticola, Cloud	Cisticola textrix	1	1					
Cisticola, Croaking	Cisticola natalensis	1	1					
Cisticola, Desert	Cisticola aridulus	1	1					
Cisticola, Lazy	Cisticola aberrans	1	1					
Cisticola, Levaillant's	Cisticola tinniens	1	1					
Cisticola, Rattling	Cisticola chiniana	1	1					
Cisticola, Red-faced	Cisticola erythrops	1	1					
Cisticola, Wailing	Cisticola lais	1	1					
Cisticola, Wing-snapping	Cisticola ayresii	1	1					
Cisticola, Zitting	Cisticola juncidis	1	1					
Cliff-chat, Mocking	Thamnolaea cinnamomeiventris	1	1					
Cliff-swallow, South African	Hirundo spilodera	1						
Coot, Red-knobbed	Fulica cristata	1	1					
Cormorant, Reed	Phalacrocorax africanus	1	1					
Cormorant, White-breasted	Phalacrocorax carbo	1	1					
Coucal, Burchell's	Centropus burchelli	1	1					
Coucal, White-browed	Centropus superciliosus	1						
Courser, Bronze-winged	Rhinoptilus chalcopterus	1	1					
Courser, Temminck's	Cursorius temminckii	1	1					
Crake, African	Crecopsis egregia	1	1					
Crake, Black	Amaurornis flavirostris	1	1					
Crake, Striped	Aenigmatolimnas marginalis		1					
Crane, Blue	Anthropoides paradiseus	1	1	NT	Е	VU	1	
Crane, Grey Crowned	Balearica regulorum	1	1	EN	E	EN		
Crested-flycatcher, Blue-	Trochocercus cyanomelas	1	1					
mantled	,							
Crombec, Long-billed	Sylvietta rufescens	1	1					

Crow, Cape	Corvus capensis	1	1				
Crow, Pied	Corvus albus	1	1				
Cuckoo, African	Cuculus gularis	1	1				
Cuckoo, African Emerald	Chrysococcyx cupreus	1	1				
Cuckoo, Black	Cuculus clamosus	1	1				
Cuckoo, Common	Cuculus canorus	1	1				
Cuckoo, Diderick	Chrysococcyx caprius	1	1				
Cuckoo, Great Spotted	Clamator glandarius	1	1				
Cuckoo, Jacobin	Clamator jacobinus	1	1				
Cuckoo, Klaas's	Chrysococcyx klaas	1	1				
Cuckoo, Levaillant's	Clamator levaillantii	1	1				
Cuckoo, Madagascar	Cuculus rochii		1				
Cuckoo, Red-chested	Cuculus solitarius	1	1				
Cuckoo, Thick-billed	Pachycoccyx audeberti	1	1				
Cuckoo-shrike, Black	Campephaga flava	1	1				
Cuckoo-shrike, Grey	Coracina caesia	1	1				
Cuckoo-shrike, White-	Coracina pectoralis	1	1				
breasted							
Darter, African	Anhinga rufa	1	1				
Dove, African Mourning	Streptopelia decipiens	1	1				
Dove, Laughing	Streptopelia senegalensis	1	1				
Dove, Lemon	Aplopelia larvata	1	1				
Dove, Namaqua	Oena capensis	1	1				
Dove, Red-eyed	Streptopelia semitorquata	1	1				
Dove, Rock	Columba livia	1	1				
Dove, Tambourine	Turtur tympanistria	1	1				
Drongo, Fork-tailed	Dicrurus adsimilis	1	1				
Drongo, Square-tailed	Dicrurus ludwigii	1	1				
Duck, African Black	Anas sparsa	1	1				
Duck, Comb	Sarkidiornis melanotos	1	1				
Duck, Fulvous	Dendrocygna bicolor	1	1				
Duck, Maccoa	Oxyura maccoa	1		NT		NT	
Duck, White-backed	Thalassornis leuconotus	1					
Duck, White-faced	Dendrocygna viduata	1	1				
Duck, Yellow-billed	Anas undulata	1	1				
Eagle, African Crowned	Stephanoaetus coronatus	1	1	VU		NT	
Eagle, Booted	Aquila pennatus	1	1			LC	
Eagle, Lesser Spotted	Aquila pomarina	1	1				
Eagle, Long-crested	Lophaetus occipitalis	1	1				
Eagle, Martial	Polemaetus bellicosus	1	1	EN	VU	VU	
Eagle, Steppe	Aquila nipalensis	1	1	_,			
Eagle, Tawny	Aquila rapax	1	1	EN	VU	LC	
Eagle, Verreaux's	Aquila verreauxii	1	1	VU	, 0	LC	
Eagle, Wahlberg's	Aquila wahlbergi	1	1	• • •			
Eagle-owl, Cape	Bubo capensis	1	1			LC	
Eagle-owl, Spotted	Bubo africanus	1	1				
Lagie-owi, Spotted	bubb ujriculius	1	1				

Eagle-owl, Verreaux's	Bubo lacteus	1	1					
Egret, Cattle	Bubulcus ibis	1	1					
Egret, Great	Egretta alba	1	1					
Egret, Little	Egretta garzetta	1	1					
Egret, Yellow-billed	Egretta intermedia	1	1					
Eremomela, Burnt-necked	Eremomela usticollis	1	1					
Eremomela, Green-capped	Eremomela scotops	1	1					
Eremomela, Yellow-bellied	Eremomela icteropygialis	1	1					
Falcon, Amur	Falco amurensis	1	1					
Falcon, Lanner	Falco biarmicus	1	1	VU		LC		
Falcon, Peregrine	Falco peregrinus	1	1		VU			
Falcon, Red-footed	Falco vespertinus	1	1	NT		NT		
Falcon, Taita	Falco fasciinucha	1	1	CR	VU	NT		
Finch, Cuckoo	Anomalospiza imberbis	1	1					
Finch, Cut-throat	Amadina fasciata	1	1					
Finch, Red-headed	Amadina erythrocephala	1	1					
Finch, Scaly-feathered	Sporopipes squamifrons	1	1					
Finfoot, African	Podica senegalensis	1	1	VU		LC		
Firefinch, African	Lagonosticta rubricata	1	1					
Firefinch, Jameson's	Lagonosticta rhodopareia	1	1					
Firefinch, Red-billed	Lagonosticta senegala	1	1					
Fiscal, Common (Southern)	Lanius collaris	1	1					
Fish-eagle, African	Haliaeetus vocifer	1	1			LV		
Fishing-owl, Pel's	Scotopelia peli	1	1	EN	E	LC		
Flamingo, Greater	Phoenicopterus ruber	1	1	NT		LC		
Flamingo, Lesser	Phoenicopterus minor	1	1	NT		NT		
Flufftail, Buff-spotted	Sarothrura elegans	1	1					
Flufftail, Red-chested	Sarothrura rufa	1						
Flycatcher, African Dusky	Muscicapa adusta	1	1					
Flycatcher, Ashy	Muscicapa caerulescens	1	1					
Flycatcher, Fairy	Stenostira scita	1					1	
Flycatcher, Fiscal	Sigelus silens	1	1					1
Flycatcher, Marico	Bradornis mariquensis	1	1					
Flycatcher, Pale	Bradornis pallidus	1	1					
Flycatcher, Southern Black	Melaenornis pammelaina	1	1					
Flycatcher, Spotted	Muscicapa striata	1	1					
Francolin, Coqui	Peliperdix coqui	1	1					
Francolin, Crested	Dendroperdix sephaena	1	1					
Francolin, Grey-winged	Scleroptila africanus	1						
Francolin, Red-winged	Scleroptila levaillantii	1	1					
Francolin, Shelley's	Scleroptila shelleyi	1	1					
Go-away-bird, Grey	Corythaixoides concolor	1	1					
Goose, Egyptian	Alopochen aegyptiacus	1	1					
Goose, Spur-winged	Plectropterus gambensis	1	1					
Goshawk, African	Accipiter tachiro	1	1					
200								

Goshawk, Dark Chanting	Melierax metabates	1	1				
Goshawk, Gabar	Melierax gabar	1	1				
Grassbird, Cape	Sphenoeacus afer	1	1				
Grass-owl, African	Tyto capensis	1		VU	VU	LC	
Grebe, Great Crested	Podiceps cristatus	1				LC	
Grebe, Little	Tachybaptus ruficollis	1	1				
Greenbul, Sombre	Andropadus importunus	1	1				
Greenbul, Yellow-bellied	Chlorocichla flaviventris	1	1				
Greenbul, Yellow-streaked	Phyllastrephus flavostriatus	1	1				
Green-pigeon, African	Treron calvus	1	1				
Greenshank, Common	Tringa nebularia	1	1				
Ground-hornbill, Southern	Bucorvus leadbeateri	1	1	EN	Р	VU	
Ground-thrush, Orange	Zoothera gurneyi	1	1	NT		LC	
Guineafowl, Helmeted	Numida meleagris	1	1				
Gull, Grey-headed	Larus cirrocephalus	1	1				
Hamerkop, Hamerkop	Scopus umbretta	1	1				
Harrier, Montagu's	Circus pygargus	1	1				
Harrier, Pallid	Circus macrourus	1		NT		NT	
Harrier-Hawk, African	Polyboroides typus	1	1				
Hawk, African Cuckoo	Aviceda cuculoides	1	1				
Hawk, Bat	Macheiramphus alcinus	1	1	EN		LC	
Hawk-eagle, African	Aquila spilogaster	1	1				
Hawk-eagle, Ayres's	Aquila ayresii	1					
Helmet-shrike, Retz's	Prionops retzii	1	1				
Helmet-shrike, White-crested	Prionops plumatus	1	1				
Heron, Black	Egretta ardesiaca	1	1				
Heron, Black-headed	Ardea melanocephala	1	1				
Heron, Goliath	Ardea goliath	1	1				
Heron, Green-backed	Butorides striata	1	1				
Heron, Grey	Ardea cinerea	1	1				
Heron, Purple	Ardea purpurea	1	1				
Heron, Squacco	Ardeola ralloides	1	1				
Hobby, Eurasian	Falco subbuteo	1	1				
Honeybird, Brown-backed	Prodotiscus regulus	1	1				
Honey-buzzard, European	Pernis apivorus		1				
Honeyguide, Greater	Indicator indicator	1	1				
Honeyguide, Lesser	Indicator minor	1	1				
Honeyguide, Scaly-throated	Indicator variegatus	1	1				
Hoopoe, African	Upupa africana	1	1				
Hornbill, African Grey	Tockus nasutus	1	1				
Hornbill, Crowned	Tockus alboterminatus	1	1				
Hornbill, Damara	Tockus damarensis	1	1				
Hornbill, Hybrid Damara/Red-	Tockus	1					
billed	damarensis/erythrorhynchus						
Hornbill, Redbilled	Tockus erythrorhynchus	1					
Hornbill, Red-billed	Tockus erythrorhynchus	1	1				

Hornbill, Southern Red-billed	Tockus rufirostris		1					
Hornbill, Southern Yellow-	Tockus leucomelas	1	1					
billed		_	_					
Hornbill, Trumpeter	Bycanistes bucinator	1	1					
House-martin, Common	Delichon urbicum	1	1					
Ibis, African Sacred	Threskiornis aethiopicus	1	1					
Ibis, Glossy	Plegadis falcinellus	1	1					
Ibis, Hadeda	Bostrychia hagedash	1	1					
Ibis, Southern Bald	Geronticus calvus	1	1	VU	VU	VU	1	
Indigobird, Dusky	Vidua funerea	1	1					
Indigobird, Purple	Vidua purpurascens	1	1					
Indigobird, Village	Vidua chalybeata	1	1					
Jacana, African	Actophilornis africanus	1	1					
Kestrel, Dickinson's	Falco dickinsoni	1						
Kestrel, Greater	Falco rupicoloides	1						
Kestrel, Lesser	Falco naumanni	1	1		VU			
Kestrel, Rock	Falco rupicolus	1	1					
Kingfisher, Brown-hooded	Halcyon albiventris	1	1					
Kingfisher, Giant	Megaceryle maximus	1	1					
Kingfisher, Grey-headed	Halcyon leucocephala	1	1					
Kingfisher, Half-collared	Alcedo semitorquata	1	1	NT		LC		
Kingfisher, Malachite	Alcedo cristata	1	1					
Kingfisher, Pied	Ceryle rudis	1	1					
Kingfisher, Striped	Halcyon chelicuti	1	1					
Kingfisher, Woodland	Halcyon senegalensis	1	1					
Kite, Black	Milvus migrans	1						
Kite, Black	Milvus migrans		1					
Kite, Black-shouldered	Elanus caeruleus	1	1					
Kite, Yellow-billed	Milvus aegyptius	1	1					
Korhaan, Red-crested	Lophotis ruficrista	1	1					
Korhaan, White-bellied	Eupodotis senegalensis	1	1	VU		LC		
Lapwing, African Wattled	Vanellus senegallus	1	1					
Lapwing, Blacksmith	Vanellus armatus	1	1					
Lapwing, Black-winged	Vanellus melanopterus	1	1					
Lapwing, Crowned	Vanellus coronatus	1	1					
Lapwing, Senegal	Vanellus lugubris	1	1					
Lapwing, White-crowned	Vanellus albiceps	1	1					
Lark, Agulhas Long-billed	Certhilauda brevirostris	1		NT		NR	1	
Lark, Benguela Long-billed	Certhilauda benguelensis	1						
Lark, Cape Long-billed	Certhilauda curvirostris	1					1	
Lark, Dusky	Pinarocorys nigricans	1	1					
Lark, Eastern Long-billed	Certhilauda semitorquata	1	1				1	
Lark, Flappet	Mirafra rufocinnamomea	1	1					
Lark, Karoo Long-billed	Certhilauda subcoronata	1						
Lark, Longbilled	Mirafra curvirostris	1						
Lark, Monotonous	Mirafra passerina	1	1					

Lark, Red-capped	Calandrella cinerea	1	1				
Lark, Rufous-naped	Mirafra africana	1	1				
Lark, Sabota	Calendulauda sabota	1	1				
Longclaw, Cape	Macronyx capensis	1	1				
Longclaw, Yellow-throated	Macronyx croceus	1	1				
Lourie, Knysna	Tauraco corythaix	1					
Mannikin, Bronze	Spermestes cucullatus	1	1				
Mannikin, Magpie	Spermestes fringilloides		1				
Mannikin, Red-backed	Spermestes bicolor	1	1			LC	
Marsh-harrier, African	Circus ranivorus	1	1	EN	Р	LC	
Martin, Banded	Riparia cincta		1				
Martin, Brown-throated	Riparia paludicola	1	1				
Martin, Rock	Hirundo fuligula	1	1				
Martin, Sand	Riparia riparia	1	1				
Masked-weaver, Lesser	Ploceus intermedius	1	1				
Masked-weaver, Southern	Ploceus velatus	1	1				
Moorhen, Common	Gallinula chloropus	1	1				
Moorhen, Lesser	Gallinula angulata	1	1				
Mousebird, Red-faced	Urocolius indicus	1	1				
Mousebird, Speckled	Colius striatus	1	1				
Myna, Common	Acridotheres tristis		1				
Neddicky, Neddicky	Cisticola fulvicapilla	1	1				
Night-Heron, Black-crowned	Nycticorax nycticorax	1	1				
Night-Heron, White-backed	Gorsachius leuconotus	1	1	VU		LC	
Nightingale, Thrush	Luscinia luscinia		1				
Nightjar, European	Caprimulgus europaeus	1	1				
Nightjar, Fiery-necked	Caprimulgus pectoralis	1	1				
Nightjar, Freckled	Caprimulgus tristigma	1	1				
Nightjar, Pennant-winged	Macrodipteryx vexillarius	1					
Nightjar, Rufous-cheeked	Caprimulgus rufigena	1	1				
Nightjar, Square-tailed	Caprimulgus fossii	1	1				
Olive-pigeon, African	Columba arquatrix	1	1				
Openbill, African	Anastomus lamelligerus	1	1				
Oriole, African Golden	Oriolus auratus	1	1				
Oriole, Black-headed	Oriolus Iarvatus	1	1				
Oriole, Eurasian Golden	Oriolus oriolus	1	1				
Osprey, Osprey	Pandion haliaetus	1	1				
Ostrich, Common	Struthio camelus	1	1				
Owl, Barn	Tyto alba	1	1				
Owl, Marsh	Asio capensis	1					
Owlet, African Barred	Glaucidium capense	1	1				
Owlet, Pearl-spotted	Glaucidium perlatum	1	1				
Oxpecker, Red-billed	Buphagus erythrorhynchus	1	1				
Oxpecker, Yellow-billed	Buphagus africanus		1			LC	
Painted-snipe, Greater	Rostratula benghalensis	1	1	VU		LC	

Palm-swift, African	Cypsiurus parvus	1	1					
Palm-thrush, Collared	Cichladusa arquata		1					
Paradise-flycatcher, African	Terpsiphone viridis	1	1					
Paradise-whydah, Long-tailed	Vidua paradisaea	1	1					
Parrot, Brown-headed	Poicephalus cryptoxanthus	1	1					
Parrot, Cape	Poicephalus robustus	1						
Parrot, Cape Parrot	Poicephalus robustus	1	1					
Parrot, Grey-headed Parrot	Poicephalus fuscicollis	1						
Pelican, Great White	Pelecanus onocrotalus	1		VU		LC		
Pelican, Pink-backed	Pelecanus rufescens	1	1	VU	Е	LC		
Penduline-tit, Cape	Anthoscopus minutus	1	1					
Penduline-tit, Grey	Anthoscopus caroli	1	1					
Petronia, Yellow-throated	Petronia superciliaris	1	1					
Pigeon, Speckled	Columba guinea	1	1					
Pipit, African	Anthus cinnamomeus	1	1					
Pipit, Buffy	Anthus vaalensis	1	1					
Pipit, Bushveld	Anthus caffer	1	1					
Pipit, Long-billed	Anthus similis	1	1					
Pipit, Plain-backed	Anthus leucophrys	1	1					
Pipit, Striped	Anthus lineiventris	1	1					
Plover, Caspian	Charadrius asiaticus	1	1					
Plover, Common Ringed	Charadrius hiaticula		1					
Plover, Kittlitz's	Charadrius pecuarius	1	1					
Plover, Three-banded	Charadrius tricollaris	1	1					
Plover, White-fronted	Charadrius marginatus	1	1					
Pochard, Southern	Netta erythrophthalma	1	1					
Pratincole, Collared	Glareola pratincola	1	1					
Prinia, Black-chested	Prinia flavicans	1	1					
Prinia, Drakensberg	Prinia hypoxantha	1	1				1	
Prinia, Karoo	Prinia maculosa	1	1					1
Prinia, Spotted	Prinia hypoxantha	1						
Prinia, Tawny-flanked	Prinia subflava	1	1					
Puffback, Black-backed	Dryoscopus cubla	1	1					
Pygmy-Goose, African	Nettapus auritus	1		VU		LC		
Pygmy-Kingfisher, African	Ispidina picta	1	1					
Pytilia, Green-winged	Pytilia melba	1	1					
Pytilia, Orange-winged	Pytilia afra	1						
Quail, Common	Coturnix coturnix	1	1					
Quail, Harlequin	Coturnix delegorguei	1	1					
Quailfinch, African	Ortygospiza atricollis	1	1					
Quelea, Red-billed	Quelea quelea	1	1					
Rail, African	Rallus caerulescens	1	1					
Raven, White-necked	Corvus albicollis	1	1					
Reed-warbler, African	Acrocephalus baeticatus	1	1					
Reed-warbler, Great	Acrocephalus arundinaceus	1	1					

Sparrow, Grey-headed	Passer diffusus	1					
Sparrow, House	Passer domesticus	1	1				
Sparrow, Northern Grey-	Passer griseus	1	1				
headed Sparrow, Southern Grey-	Passer diffusus	1	1				
headed		_	4				
Sparrowhawk, Black	Accipiter melanoleucus	1	1				
Sparrowhawk, Little	Accipiter minullus	1	1				
Sparrowhawk, Ovambo	Accipiter ovampensis	1	1				
Sparrowhawk, Rufous- chested	Accipiter rufiventris	1	1				
Sparrowlark, Chestnut- backed	Eremopterix leucotis	1	1				
Sparrowlark, Grey-backed	Eremopterix verticalis		1				
Sparrow-weaver, White- browed	Plocepasser mahali	1	1				
Spoonbill, African	Platalea alba	1	1				
Spurfowl, Natal	Pternistis natalensis	1	1				
Spurfowl, Red-necked	Pternistis afer	1	1				
Spurfowl, Swainson's	Pternistis swainsonii	1	1				
Starling, Black-bellied	Lamprotornis corruscus		1				
Starling, Burchell's	Lamprotornis australis	1	1				
Starling, Cape Glossy	Lamprotornis nitens	1	1				
Starling, Greater Blue-eared	Lamprotornis chalybaeus	1	1				
Starling, Red-winged	Onychognathus morio	1	1				
Starling, Violet-backed	Cinnyricinclus leucogaster	1	1				
Starling, Wattled	Creatophora cinerea	1	1				
Stilt, Black-winged	Himantopus himantopus	1	1				
Stint, Little	Calidris minuta	1	1				
Stonechat, African	Saxicola torquatus	1	1				
Stork, Abdim's	Ciconia abdimii	1	1	NT		LC	
Stork, Black	Ciconia nigra	1	1	VU	VU	LC	
Stork, Marabou	Leptoptilos crumeniferus	1	1	NT		LC	
Stork, Saddle-billed	Ephippiorhynchus senegalensis	1	1	EN	E	LC	
Stork, White	Ciconia ciconia	1	1				
Stork, Woolly-necked	Ciconia episcopus	1	1				
Stork, Yellow-billed	Mycteria ibis	1	1	EN		LC	
Sugarbird, Gurney's	Promerops gurneyi	1	1				
Sunbird, Amethyst	Chalcomitra amethystina	1	1				
Sunbird, Collared	Hedydipna collaris	1	1				
Sunbird, Greater Double- collared	Cinnyris afer	1	1				1
Sunbird, Malachite	Nectarinia famosa	1	1				
Sunbird, Marico	Cinnyris mariquensis	1	1				
Sunbird, Purple-banded	Cinnyris bifasciatus		1				
Sunbird, Scarlet-chested	Chalcomitra senegalensis	1	1				

Sunbird, Southern Double- Collared									
Swallow, Barn Hirundo atrocerulea 1 CR CE VU Swallow, Grey-rumped Hirundo atrocerulea 1 2 2 2 1 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 4		Cinnyris chalybeus	1	1				1	
Swallow, Greeter Striped Hirundo atrocaerulea 1 CR CE VU Swallow, Grey-rumped Pseudhirundo griseopyga 1 <td< td=""><td>Sunbird, White-bellied</td><td>Cinnyris talatala</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td></td<>	Sunbird, White-bellied	Cinnyris talatala	1	1					
Swallow, Greater Striped Hirundo cucullata 1 Swallow, Grey-rumped Pseudhirundo griseopyaa 1 Swallow, Mosque Hirundo abysinica 1 Swallow, Mosque Hirundo senegalensis 1 Swallow, Pearl-breasted Hirundo semirufa 1 Swallow, Whete-throated Hirundo semirufa 1 Swallow, White-throated Hirundo sibigularis 1 Swallow, White-throated Hirundo smithii 1 Swamphen, African Purple Porphyrio modagoscariensis 1 Swamphen, African Purple Porphyrio modagoscariensis 1 Swift, African Black Apus borbotus 1 Swift, Alpine Tachymarptis melba 1 Swift, Lohine Tachymarptis melba 1 Swift, Horus Apus apus 1 Swift, White-rumped Apus affinis 1 Swift, White-rumped Apus caffer 1 Tchagra, Southern Tchagra enegalus 1 Tchagra, Southern Tchagra enegalus 1 1 Teal, Cape	Swallow, Barn	Hirundo rustica	1	1					
Swallow, Grey-rumped Pseudhirundo griseopyga 1 1 Swallow, Lesser Striped Hirundo sheysinica 1 1 Swallow, Mosque Hirundo senegalensis 1 1 Swallow, Pearl-breasted Hirundo dimidiata 1 1 Swallow, White-throated Hirundo albiqularis 1 1 Swallow, White-throated Hirundo smithii 1 1 Swamp-warbler, Lesser Aprophyrio madagoscariensis 1 1 Swamp-warbler, Lesser Acrocephalus gracilirostris 1 1 Swift, African Black Apus barbatus 1 1 Swift, Alpine Tochymarptis melba 1 1 Swift, Alpine Tochymarptis melba 1 1 Swift, Common Apus apus 1 1 Swift, Horus Apus horus 1 1 Swift, Little Apus apus horus 1 1 Swift, Little Apus apus controller 1 1 Tchagra, Black-crowned Tchagra castralis 1 <td< td=""><td>Swallow, Blue</td><td>Hirundo atrocaerulea</td><td>1</td><td></td><td>CR</td><td>CE</td><td>VU</td><td></td><td></td></td<>	Swallow, Blue	Hirundo atrocaerulea	1		CR	CE	VU		
Swallow, Grey-rumped Pseudhirundo griseopyga 1 1 Swallow, Lesser Striped Hirundo obyssinica 1 1 Swallow, Mosque Hirundo senegalensis 1 1 Swallow, Pearl-breasted Hirundo dimidiata 1 1 Swallow, White-throated Hirundo abligularis 1 1 Swallow, White-throated Hirundo smithii 1 1 Swamp-warbler, Lesser Aerocephalus gracilirostris 1 1 Swamp-warbler, Lesser Aerocephalus gracilirostris 1 1 Swift, African Black Apus barbotus 1 1 Swift, Alpine Tochymarptis melba 1 1 Swift, Common Apus agninis 1 1 Swift, Little Apus affinis 1 1 Swift, White-rumped Apus caffer 1 1 Tchagra, Black-crowned Tchagra enegalus 1 1 Tchagra, Southern Tchagra enegalus 1 1 Tchagra, Southern Tchagra enegalus 1	Swallow, Greater Striped	Hirundo cucullata	1	1					
Swallow, Lesser Striped Swallow, Mosque Hirundo abyssinica Swallow, Pearl-breasted Hirundo abriliatio Swallow, Red-breasted Hirundo semirufa 1 Swallow, White-throated Swallow, Wire-tailed Hirundo semirufa 1 1 Swift, Alpine Tachyrarptis melba 1 1 Swift, Alpine Tachyrarptis melba 1 Swift, Horus Apus barbus 1 Swift, Horus Apus apus 1 Swift, Horus Apus offinis 1 Swift, White-rumped Apus coffer 1 Tchagra, Black-crowned Tchagra senegalus 1 Tchagra, Brown-crowned Tchagra capensis 1 Tchagra, Southern Tchagra capensis 1 Teal, Red-billed Anas expthrorhyncha Tern, White-winged Childonias leucopterus 1 Tern, White-winged Childonias leucopterus 1 Thrush, Groundscraper Psophocichia litsipsirupa Thrush, Kurrichane Thrush, Kurrichane Turdus silvaceus 1 Thrush, Clive Turdus olivaceus 1 Thrush, Olive Turdus olivaceus 1 Tinkerbird, Yellow-fronted Tinkerbird,	•	Pseudhirundo griseopyga	1	1					
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Waxbill, CommonEstrilda astrild11Waxbill, GreyEstrilda perreini1Waxbill, Orange-breastedAmandava subflava11Waxbill, SweeCoccopygia melanotis11Waxbill, Violet-earedGranatina granatina11Weaver, CapePloceus capensis11Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola11White-eye, CapeZosterops pallidus11White-eye, CapeZosterops virens111White-eye, Orange RiverZosterops pallidus11Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua macroura11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Black-faced	Estrilda erythronotos	1	1					
Waxbill, GreyEstrilda perreini1Waxbill, Orange-breastedAmandava subflava11Waxbill, SweeCoccopygia melanotis11Waxbill, Violet-earedGranatina granatina11Weaver, CapePloceus capensis11Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Blue	Uraeginthus angolensis	1	1					
Waxbill, Orange-breastedAmandava subflava11Waxbill, SweeCoccopygia melanotis11Waxbill, Violet-earedGranatina granatina11Weaver, CapePloceus capensis11Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola11White-eye, CapeZosterops pallidus11White-eye, CapeZosterops virens111White-eye, Orange RiverZosterops pallidus11Whitethroat, CommonSylvia communis11Whydah, Pin-tailedVidua macroura11Widowbird, Fan-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Common	Estrilda astrild	1	1					
Waxbill, SweeCoccopygia melanotis11Waxbill, Violet-earedGranatina granatina11Weaver, CapePloceus capensis11Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola11White-eye, CapeZosterops pallidus11White-eye, CapeZosterops virens111White-eye, Orange RiverZosterops pallidus11Whitethroat, CommonSylvia communis11Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Grey	Estrilda perreini	1						
Waxbill, Violet-earedGranatina granatina11Weaver, CapePloceus capensis11Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Orange-breasted	Amandava subflava	1	1					
Weaver, CapePloceus capensis11Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola11White-eye, CapeZosterops pallidus11White-eye, CapeZosterops virens111White-eye, Orange RiverZosterops pallidus11Whitethroat, CommonSylvia communis11Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Swee	Coccopygia melanotis	1	1					
Weaver, GoldenPloceus xanthops11Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Waxbill, Violet-eared	Granatina granatina	1	1					
Weaver, Red-headedAnaplectes rubriceps11Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Weaver, Cape	Ploceus capensis	1	1				1	
Weaver, SpectacledPloceus ocularis11Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Weaver, Golden	Ploceus xanthops	1	1					
Weaver, Thick-billedAmblyospiza albifrons11Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Weaver, Red-headed	Anaplectes rubriceps	1	1					
Weaver, VillagePloceus cucullatus11Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Weaver, Spectacled	Ploceus ocularis	1	1					
Wheatear, CappedOenanthe pileata11Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Weaver, Thick-billed	Amblyospiza albifrons	1	1					
Wheatear, MountainOenanthe monticola1White-eye, CapeZosterops pallidus1White-eye, CapeZosterops virens11White-eye, Orange RiverZosterops pallidus1Whitethroat, CommonSylvia communis1Whydah, Pin-tailedVidua macroura11Whydah, Shaft-tailedVidua regia11Widowbird, Fan-tailedEuplectes axillaris11Widowbird, Long-tailedEuplectes progne11	Weaver, Village	Ploceus cucullatus	1	1					
White-eye, Cape Zosterops pallidus 1 White-eye, Cape Zosterops virens 1 1 1 1 White-eye, Orange River Zosterops pallidus 1 Whitethroat, Common Sylvia communis 1 Whydah, Pin-tailed Vidua macroura 1 1 Whydah, Shaft-tailed Vidua regia 1 1 Widowbird, Fan-tailed Euplectes axillaris 1 Widowbird, Long-tailed Euplectes progne 1	Wheatear, Capped	Oenanthe pileata	1	1					
White-eye, Cape Zosterops virens 1 1 1 White-eye, Orange River Zosterops pallidus 1 Whitethroat, Common Sylvia communis 1 Whydah, Pin-tailed Vidua macroura 1 1 Whydah, Shaft-tailed Vidua regia 1 1 Widowbird, Fan-tailed Euplectes axillaris 1 Widowbird, Long-tailed Euplectes progne 1	Wheatear, Mountain	Oenanthe monticola	1						
White-eye, Orange River Whitethroat, Common Sylvia communis Whydah, Pin-tailed Vidua macroura Whydah, Shaft-tailed Vidua regia Widowbird, Fan-tailed Euplectes axillaris Widowbird, Long-tailed Euplectes progne 1 Valua regia 1 1 Vidua regia 1 1	White-eye, Cape	Zosterops pallidus	1						
Whitethroat, Common Sylvia communis 1 Whydah, Pin-tailed Vidua macroura 1 1 Whydah, Shaft-tailed Vidua regia 1 1 Widowbird, Fan-tailed Euplectes axillaris 1 Widowbird, Long-tailed Euplectes progne 1 1	White-eye, Cape	Zosterops virens	1	1				1	
Whydah, Pin-tailed Whydah, Shaft-tailed Vidua macroura 1 Widowbird, Fan-tailed Euplectes axillaris Widowbird, Long-tailed Euplectes progne 1 1	White-eye, Orange River	Zosterops pallidus	1						
Whydah, Shaft-tailed Vidua regia 1 1 Widowbird, Fan-tailed Euplectes axillaris 1 1 Widowbird, Long-tailed Euplectes progne 1 1	Whitethroat, Common	Sylvia communis		1					
Widowbird, Fan-tailed Euplectes axillaris 1 1 Widowbird, Long-tailed Euplectes progne 1 1	Whydah, Pin-tailed	Vidua macroura	1	1					
Widowbird, Long-tailed Euplectes progne 1 1	Whydah, Shaft-tailed	Vidua regia	1	1					
	Widowbird, Fan-tailed	Euplectes axillaris	1	1					
	Widowbird, Long-tailed	·	1	1					
Tupicotes and the Lapicotes an	Widowbird, Red-collared	Euplectes ardens	1	1					
	Widowbird, Long-tailed	Euplectes progne	1	1					

Widowbird, White-winged	Euplectes albonotatus	1	1	
Wood-dove, Blue-spotted	Turtur afer	1	1	
Wood-dove, Emerald-spotted	Turtur chalcospilos	1	1	
Wood-hoopoe, Green	Phoeniculus purpureus	1	1	
Woodland-warbler, Yellow-	Phylloscopus ruficapilla	1	1	
throated				
Wood-owl, African	Strix woodfordii	1	1	
Woodpecker, Bearded	Dendropicos namaquus	1	1	
Woodpecker, Bennett's	Campethera bennettii	1	1	
Woodpecker, Cardinal	Dendropicos fuscescens	1	1	
Woodpecker, Golden-tailed	Campethera abingoni	1	1	
Woodpecker, Ground	Geocolaptes olivaceus	1		1
Woodpecker, Olive	Dendropicos griseocephalus	1	1	
Wren-warbler, Stierling's	Calamonastes stierlingi	1	1	
Wryneck, Red-throated	Jynx ruficollis	1	1	