Gourikwa Reserve

Western Cape South Africa





Management Plan

Prepared by Dave Savage

CapeNature Biodiversity Stewardship Programme

Citation

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STATUS

The Gourikwa Nature Reserve has been declared as a Section 23 Nature Reserve.

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ABBREVIATIONS

CBA Critical Biodiversity Area
CEO Chief Executive Officer

DEA&DP Department of Environmental Affairs and Development Planning

DEFF Department of Environment, Forestry and Fisheries

DWA National Department of Water Affairs

EIA Environmental Impact Assessment

EMF Environmental Management Framework

EMP Environmental Management Plan
FEPA Freshwater Ecosystem Priority Area

FPA Fire Protection Association in terms of the National Veld and Forest Fire Act (No.1 of 1998)

GIS Geographical Information System

IDP Municipal Integrated Development Plan

IUCN International Union for the Conservation of Nature

MCM National Department of Marine and Coastal Management

MEC Member of the Executive Council
MOA Memorandum of Agreement
MOU Memorandum of Understanding

NEMA National Environmental Management Act

NFEPA National Freshwater Ecosystem Priority Area

NPAES National Protected Area Expansion Strategy

NSBA National Spatial Biodiversity Assessment

PA Protected Area

SAHRA South African Heritage Resources Agency

SOB State of Biodiversity Report

SDF Municipal Spatial Development Framework

SMP Strategic Management Plan

SWOT Strengths, weaknesses, opportunities and threats analysis

UNESCO United Nations Educational, Scientific and Cultural Organisation

1) BACKGROUND

1.1 Purpose of the plan

Management plans for biodiversity stewardship sites are strategic documents that provide the framework for the development and operation of biodiversity stewardship sites. They inform management at all levels, from the landowner through to support staff within CapeNature. The purpose of the management plan is to:

- Provide the primary strategic tool for management of Gourikwa Reserve, informing the need for specific programmes and operational procedures.
- Provide for capacity building, future thinking and continuity of management.
- Enable the landowner to develop and manage Gourikwa Reserve in such a
 way that its values and the purpose for which it has been established are
 protected.

1.2 Structure of the plan

| Section 1: | Provides an introduction and background to the management plan and Gourikwa Reserve. | |
|------------|--|--|
| Section 2: | Sets out the vision and objectives for the biodiversity stewardship site. | |
| Section 3: | Establishes the context of the biodiversity stewardship site, providing the basis for the operational management framework that follows. | |
| Section 4: | Sets out the zonation of the biodiversity stewardship site, outlining the land uses in particular zones. | |
| Section 5: | Describes the administrative structure that has been established for Gourikwa Reserve. | |
| Section 6: | Operational Management Framework - Sets out the management targets that must be achieved in managing the nature reserve. | |
| Section 7: | Annual Plan of Operation and Review | |



1.3 Adaptive management

The preparation of this management plan has been undertaken based on the guiding principles of adaptive management, which is a structured, iterative process in which decisions are made using the best available information, with the aim of obtaining better information through monitoring of performance (Figure 1.1). In this way, decision making is aimed at achieving the best outcome based on current understanding, whilst accruing the information needed to improve future management. Adaptive management can lead to revision of a part or if necessary the whole management plan.

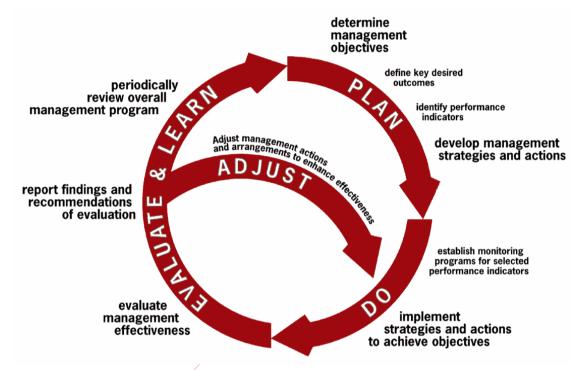


Figure 1.1 The adaptive management cycle (Management Strategy Evaluation, 2009)

Adaptive management enables landowners and managers to:

- i) Learn through experience.
- ii) Take account of, and respond to, changing factors that affect the biodiversity stewardship site.
- iii) Develop or refine management processes.
- iv) Adopt best practices and new innovations in biodiversity conservation management.
- v) Demonstrate that management is appropriate and effective.

1.4 Introduction

The Gourikwa Nature Reserve (depicted by the red arrow in Figure 1.2), consists of the following property description, portion 15 of the farm Buffelshoek 455. It is situated near the village of Gouritsmond and falls under the Hessequa District Municipality.

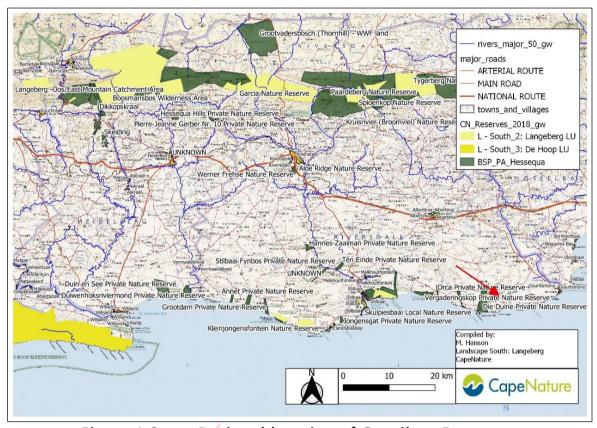


Figure 1.2 Regional location of Gourikwa Reserve

1.5 Landowner details

| Owner | Dave Savage |
|---------------------------|---|
| Contact person | Sonia Louw |
| Contact details – Tel. | 087 702 9126 |
| Contact details – email | manager@gourikwa.co.za |
| Management Authority | Gourikwa Reserve (PTY) Ltd 1999/016082/07 |
| | |
| Property descriptions and | Portion 15 of the Farm Buffelshoek 455 |
| title deed number | |
| | |
| Total property area | 2 455 hectares |
| | |

1.6 The values of Gourikwa Reserve



The values of a site are those remarkable attributes that led to it being identified as a priority for the Biodiversity Stewardship Programme. The values are important in planning and management, as they are the aspects of the place that must be protected. The values of Gourikwa Reserve include:

Natural values

- Vegetation types are Canca Limestome (LT),
 Albertinia sand Fynbos (LT) and Blombos strandveld (LT).
- Important endemic flora species; Lobostemon belliformis (CE) Aspalathus arenaria (VU) Agathosma muirii (VU) Leucadendron qalpinii (VU)
- Apart from these mentioned species there are an additional 14 species of flora on the property that are either Vulnerable or threatened
- Meets four of the CapeNature Protected Areas Expansion plan objectives.
- i. Critically Endangered ecosystems (All though vegetation types are LT, the vegetation is listed as CBA in the Biodiversity Sector plan of 2010 as areas of conservation)
- ii. Under-protected ecosystems and strategic landscapes
- iii. Essential habitat for selected species (Bontebok and Cape Mountain Zebra)
- iv. Marine, estwarine and coastal systems
- v. Freshwater ecosystems

Biodiversity targets of the Reserve

To ensure conservation of species and process by maintaining and improving ecosystem functioning. To achieve this by

Maintain habitat connectivity

- Monitor Movement: track the movement of at least 10 Cape Mountain zebras annually to ensure they are utilizing habitat effectively.
- Reduce Barriers: Identify and remove or mitigate at least 80% of physical barriers (e.g., fences, roads) that impede zebra movement by 2030. Expansion of habitat: identify opportunities for expanding the boundaries of the reserve to neighbouring properties, by 2030.

Promote species conservation such as Cape Mountain zebra and contribute to metapopulation management.

- Population Growth: Increase the Cape Mountain zebra population within the reserve to 20 individuals, over the next five years.
- Health Monitoring: Conduct bi-annual health assessments on at least 50% of the zebra population to monitor disease and overall health.

Promote Genetic bulstering within the Cape:



| | Genetic Diversity: Introduce at least five new individuals from genetically diverse populations into the reserve every ten years. Genetic Testing: Perform genetic testing on 30% of the population every five years, to monitor genetic diversity and identify potential inbreeding issues. Compliance with BMP: Ensure that all conservation activities align with the Biodiversity Management Plan (BMP) for Cape Mountain Zebra, with annual reviews and adjustments as needed. Stakeholder Engagement: Conduct at least two stakeholder meetings with the conservation agency every three years to discuss progress and updates on the BMP objectives. Reporting and communication: Reporting: Compile an annual Cape Mountain zebra report providing information of breeding successes, management interventions, any escaped animals, any translocations planned or completed, etc. | |
|-----------------------|---|--|
| Ecosystem service | Cycling Processes: nutrient cycling, nitrogen fixation, | |
| values | carbon sequestration, soil formation; Regulation and Stabilisation: erosion control, regulation of rainfall and water supply, climate regulation, mitigation of storms and floods; Habitat Provision: refuge for animals and plants, storehouse for genetic material]. Pollination Services. | |
| Eco-cultural tourism | The property is fully equipped for tourism, there are | |
| values | couple cottages, family guest houses / rooms all self- catering. The reserve caters for conferences as well as | |
| | weddings and events. | |
| Cultural and historic | Shell middens and fish traps along the coast | |
| values | | |
| Socio-Economic | The reserve caters for tourism, events, and has | |
| values | conference facilities. There is opportunities of guided tours and self-guided hiking / interpretation trails. | |
| | There are also opportunities for wood cutter | |
| | community projects whereby contractors are permitted to removed alien invasive vegetation form the reserve to sell wood collected for fiscal benefits. | |
| | 1 | |

1.7 Summary of management challenges and opportunities

In Hessequa the industrialization of agriculture is the leading cause of habitat loss and therefore biodiversity loss. As economical imperatives dictate ever larger fields that can be worked by mechanical means at an industrial scale, hedge rows and other kinds of untransformed land for wildlife fall victim to cultivation. Often these practices increase the susceptibility of the land to wind and water erosion. Not only



does this degrade the land further, it also increases the siltation of streams that are already stressed from over-pumping for irrigation. As the land area for natural ecosystems shrinks, there is less natural capacity to filter pollutants and detoxify waters; and less capacity to cycle nutrients and compost organic wastes. Species and ecosystem services decrease as a consequence.

Poor land management is a significant threat to biodiversity. The ecosystems of the Riversdale Coastal Plain require informed management for their healthy maintenance. Neglect or unwise management can result in invasive alien plant infestation, soil erosion, overgrazing of veld and inappropriate fire regimes, any of which can have devastating impacts on the natural environment.

Table 1.7.1 Management challenges and opportunities

| Key performance area | Challenges and Opportunities |
|--------------------------------|--|
| Fire management | Promote a veld age mosaic within the reserve by rotational block burning. Install priority firebreaks within the reserve. |
| | Establish a fire regime and burning frequency that promotes vegetation regrowth. Limit any negative impacts of frequent uncontrolled |
| | fires would have on vegetation / habitat. Reduce the vegetation fuel load that would contribute to intensity of fires which would impact the seedbank within the soils. |
| Invasive vegetation management | Reducing the Invasive species densities of the reserve remains a challenge. |
| | Opportunity The introduction of TMF funded projects "Conservation @ Work" could be implemented when funding becomes available. |
| | Maintaining control of the invasive flora vegetation by implementing best clearing methodology and practices |
| | Develop invasive vegetation clearing blocks within the reserve and implement annual clearing plan. |
| | Investigate opportunities for introduction of Biocontrol agents to assist in invasive flora control. |
| | Being a Contract Nature Reserve allows the management authority to access avenues of potential funding form tax incentives (SARS) and other special projects i.e TMF |
| Wildlife management | Population management of game species. Ie. Eland to reduce numbers to a safe low impact population that will allow for less competition with other game species and utilisation of vegetation. |
| | Maintaining a healthy vegetation carrying capacity that promotes sustainable utilisation of resources and game species diversity. |
| | Habitat utilisation and management that will allow for favourable introduction of additional species. |
| | Supplement feeding deficiencies by adding trace elements to artificial water supplies or game lick-blocks. |

| Sustainable harvesting | Promote long term sustainable use of flora species on the reserve by plant harvesters through monitoring and compliance with permits. |
|---|---|
| Erosion prevention and control | There are no major erosion concerns on the conservation areas of the property, however an assessment could be done in the future to ascertain and problems that can be dealt with when the need arises. |
| Monitoring and Baseline data collection | Create a Biodiversity Resource Inventory list. Promote Conservation of Threatened and Endemic flora on the reserve. |
| | Manage consumptive utilisation of biological resources that may be caused by harvesting of flora species. |
| Biodiversity security | There are partnerships in place with local and provincial law enforcement as well as conservation agencies to assist in illegal activities as and should they arise that the management authority need assistance on. Attendance to local community policing forums. |
| Development of tourism opportunities | Developing tourism products that will enhance the experience of visitors to the reserve, that is sustainable and not harmful to the biophysical asset of the reserve. Low impact, self-guide trails with interpretation information. Employment of guides for interpretation of the intertidal zone of the reserve for visitors. |
| Legal compliance | There are no compliance issues on the property and any future developments will need to be authorised through the appropriate departments and adhere to local or provincial legislation |
| Management effectiveness | The audits conducted by the provincial conservation authority are all up to date and management adaptions to the five-year plan are updated accordingly in agreement with the landowner. Currently the biggest objective to the reserve that is taking up most of the resources at this take is Alien invasive flora management and the effectiveness of these projects is audited alone. |
| Infrastructure | All infrastructures on the reserve is adequately maintained and future infrastructure ventures are not envisioned for the reserve. The objective is to maintain the natural integrity of the property and to tread lightly with any human activities. There is a network of existing jeep tracks that could also double up as future hiking and bike trails. |

2) STRATEGIC MANAGEMENT FRAMEWORK

The strategic management framework is aimed at providing the basis for the protection, development and operation of the protected area over a five-year period. It consists of the vision, purpose and objectives of Gourikwa Reserve It has been



prepared collaboratively through a process involving the landowner (Management Authority), site manager and CapeNature.

2.1 Gourikwa Reserve Vision and Purpose

The Vision

"Our vision is to ensure the long-term protection of the site through appropriate management actions. The management of Gourikwa Reserve will strive to continually improve all aspects of the way in which the Reserve is managed - environmentally, socially and economically.

Purpose

The purpose is the foundation on which all future actions are based and is in line with the overall management philosophy of the nature reserve.

According to S17 of NEM: PAA, the purpose of declaring an area as a protected area are:

- a) to protect ecologically viable areas representative of South Africa's biological diversity and its natural landscapes and seascapes in a system of protected areas;
- b) to preserve the ecological integrity of those areas;
- c) to conserve biodiversity in those areas;
- d) to protect areas representative of all ecosystems, habitats and species naturally occurring in South Africa;
- e) to protect South Africa's threatened or rare species;
- f) to protect an area which is vulnerable or ecologically sensitive;
- g) to assist in ensuring the sustained supply of environmental goods and services;
- h) to provide for the sustainable use of natural and biological resources;
- i) to create or augment destinations for nature-based tourism;
- j) to manage the interrelationship between natural environmental biodiversity, human settlement and economic development;
- k) generally, to contribute to human, social, cultural, spiritual and economic development; or
- I) to rehabilitate and restore degraded ecosystems and promote the recovery of endangered and vulnerable species.

Gourikwa Reserve serves in the protection of South Africa's threatened and rare species, provides protection to ecosystems and preserves ecological integrity. Benefits of appropriate nature based economic activities may be utilised to promote human, social, cultural and economic development while protecting ecosystems that are vulnerable and ecologically sensitive.



2.2 Objectives

The objectives were derived from the vision and purpose and are grouped into Key Performance Areas (KPA) in which achievement must be obtained in order to support the management intention. Objectives are then prioritised through the development of action plans which are set out in the Operational Management Framework.

Table 2.1 sets out the key performance areas, the objective for each key performance area and the key deliverables, required to realise the objectives.



Table 2.1 Objectives and Key Deliverables for Gourikwa Reserve

| Key Performance Area | Objective | Key Deliverable | |
|--------------------------------|--|---|--|
| Biodiversity Managem | nent | | |
| Fire management | To ensure conservation of species and processes by maintaining and improving ecosystem functioning. To allow for natural fire processes to occur without impacting on safety and infrastructure. To implement effective Integrated Catchment Management. | Reduce/Prevent the Spread of Fires. Maintain Partnerships to Improve Fire Management. Determine and Implement Thresholds of Potential Concern. Reduce Wildfires due to Human Negligence and implement an ecological burn programme (if applicable). | |
| Invasive vegetation management | To enhance biodiversity protection and conservation. To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | Eradicate Alien and Invasive Species. Implement Biological Control. Prevent Further Introduction of Aliens. | |
| Wildlife management | To ensure effective conservation of species and processes by maintaining and improving ecosystem functioning. To enhance biodiversity protection and conservation. | Prevent the introduction of alien fauna species. Control invasive alien fauna. Manage the introduction of fauna on the Reserve. Evaluate and monitor impact of fauna on the Reserve. Establish viable fauna species numbers on the Reserve. Maintain a healthy and productive fauna species on the Reserve while maintain species behavioural ecology. | |
| Sustainable harvesting | To ensure the sustainable use of wild fynbos resources. To ensure the conservation of biodiversity where harvesting operations occur. To monitor the impact of harvesting on selected fynbos species. | Identify Management Zones Classify Floral Species according to Vulnerability Index Minimise Harvesting Impact Monitoring and Record Keeping Compliance with Relevant Legislation and permit conditions | |



| Erosion prevention | To ensure implementation of effective conservation management interventions. | Prevent and mitigate soil erosion. | | | | | | |
|------------------------|--|---|--|--|--|--|--|--|
| and control | To enhance biodiversity protection and conservation. | | | | | | | |
| Monitoring and | To manage biodiversity knowledge to ensure effective conservation management. | Create a Biodiversity Resource Inventory. | | | | | | |
| Baseline data | To implement measures to ensure resilience and persistence of biodiversity in light of climate change. | Implement Monitoring Programme. | | | | | | |
| collection | To ensure the implementation of effective conservation management interventions. | Implement Research Programme. | | | | | | |
| | To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | Protection of Flora of Conservation Concern. | | | | | | |
| | | Conservation of Threatened and Endemic Fauna. | | | | | | |
| | | Manage consumptive utilisation of biological resources. | | | | | | |
| | | Insert Ecological plan of Operation into CapeNature Conservation Services Ecological Matrix for the Area. | | | | | | |
| Biodiversity security | To enhance biodiversity protection and conservation. | Improved security and safety of the biodiversity assets on the Nature | | | | | | |
| | To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | Reserve. | | | | | | |
| | / | | | | | | | |
| Development | | | | | | | | |
| Development of | To evaluate potential tourism opportunities. | Development of tourism opportunities that generate revenue for the | | | | | | |
| tourism opportunities | To implement effective management systems. | Nature Reserve. | | | | | | |
| opportunities | To ensure legal compliance and implementation of authorised development plans. | | | | | | | |
| Operational Management | | | | | | | | |
| Legal compliance | To ensure legal compliance to all relevant legislation and policies. | Ensure that all legal requirements are met. | | | | | | |
| Management | To implement effective management systems. | Conduct annual audits | | | | | | |
| effectiveness | | Auditing systems inform management and management plan revision. | | | | | | |
| Infrastructure | To ensure the implementation of effective conservation management interventions. | All infrastructure on the Reserve is adequately maintained. | | | | | | |
| | To enhance biodiversity protection and conservation. | | | | | | | |
| | To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | | | | | | | |





3) DESCRIPTION OF GOURIKWA RESERVE AND ITS CONTEXT

3.1 The legislative basis for the management of Gourikwa Reserve

There is a large body of legislation that is relevant to the management of Gourikwa Reserve, but the primary legislation guiding the management of protected areas is the National Environmental Management: Protected Areas Act (No.57 of 2003) (Hereafter referred to as the Act).

The Act establishes the legal basis for the creation and administration of protected areas in South Africa, as its objectives include provisions "for the protection and conservation of ecologically viable areas representative of South Africa's biological diversity and its natural landscapes". The Act sets out the mechanisms for the declaration of protected areas and the requirements for their management.

In the Western Cape, CapeNature is the Provincial Conservation Authority and its Biodiversity Stewardship Programme facilitates the establishment and management of protected areas on private land.

A detailed list of relevant legislation is provided in Appendix A. Landowners should familiarise themselves with the purpose and contents of the statutes and their subsequent amendments and regulations.

3.1.1 Proclamation status of Gourikwa Resérve

Gourikwa Reserve is proclaimed under Section 23(1) of the National Environmental management: Protected Areas Act (Act 57 of 2003). See Appendix B

3.1.2 Invasive species control in terms of the Biodiversity Act

In terms of Section 76 of the National Environmental Management: Biodiversity Act (No.10 of 2004), the management authority of a protected area must incorporate an invasive species control plan in the protected area management plan. This is addressed in Sections 6 and 8 below.

3.2 The regional and local planning context of Gourikwa Reserve

3.2.1 The Protected Area Expansion Strategy and Implementation Plan

The Protected Area Expansion Strategy and Implementation Plan is a response to the National Protected Area Expansion Strategy (NPAES) (SANBI & DEAT, 2010) which calls on provinces to develop implementation plans in support of the NPAES and in support of provincial conservation efforts and priorities. The NPAES, which provides a broad national framework for Protected Area expansion in South Africa, also identifies areas of importance to be targeted for Protected Area expansion in the country, and mechanisms to achieve this.

The CapeNature Protected Area Expansion Strategy addresses the formal proclamation of priority natural habitats as protected areas to secure biodiversity and ecosystem services for future generations. This strategy is aligned to the concepts and goals of the 2008 NPAES, but does identify some different spatial priorities.



The priority areas for Protected Area expansion in the Western Cape Province are based on the provincial map of critical biodiversity areas (referred to as the Western Cape Biodiversity Framework; see Pence, 2014). Critical Biodiversity Areas (CBAs) are terrestrial and aquatic features (e.g. wetlands, rivers and estuaries) that must be kept in a natural state in order to retain a reasonable proportion of biodiversity pattern in an ecologically functional and resilient landscape. CBAs represent the most area-efficient option to meeting all stated biodiversity thresholds (Maree and Vromans, 2010).

Two factors, importance and urgency, are then used to identify the highest priority CBAs for formal protection. An area is considered important for the expansion of the land-based Protected Area network if it is one of the best remaining examples of a Critically Endangered ecosystem, contributes to meeting biodiversity thresholds for under-protected terrestrial or freshwater ecosystems, maintaining ecological processes or climate change resilience, provides essential habitat for threatened and under-protected taxa, or a combination of these. Urgency is determined by the extent to which spatial options for meeting targets (and optimal Protected Area design) still exist, which is often linked to the degree of competing land or resource uses in an area.

Areas that have emerged as top priorities for landscape-scale Protected Area expansion in the Western Cape are highlighted by the Conservation Action Priorities (CAP) Map9. This CAP Map is underpinned by a comprehensive database which indicates specific cadastres targeted for Protected Area expansion according to objective, mechanism, organization and urgency.

Integrated Development Plans (IDPs) are compiled annually and for five year periods by all municipalities in South Africa in order to establish prioritization and allocation of budget expenditure in terms of development priorities.

Hessequa Local Authority Spatial Development Framework

Spatial Development Frameworks (SDFs) are compiled in order to illustrate current and desired future land uses spatially across the municipality and link in to the Integrated Development Plan (IDP) in terms of the spatial allocation of the municipal budget. The IDP and SDF should be taken into consideration in determining the zone of influence and establishing potential threats and opportunities in these areas. There is also the opportunity to identify projects and interventions that need to be included in the IDPs and SDFs where appropriate and within the legislated stakeholder engagement processes.

As for the district municipality IDP, Still Bay Harbour development is identified as a key project, but has no direct influence on this reserve. The coastal management programme for the district is compiled in terms of NEM:ICMA, however the coastal development setback line has not yet been finalised. The Working for the Coast/CoastCare Programme can assist the nature reserve complex with manpower as required during beach cleanup incidents and general alien invasive flora clearance. The local municipality climate change adaptation strategy is aligned to the district municipality. This strategy acts as a guide assisting municipalities to identify and prioritise climate change indicators facilitating the assessment of adaptive capacity The major climatic hazards in the Garden Route district (Hessequa incl.) identified by a Vulnerability Assessment include: droughts, floods and veld fires. Climate change is also expected to incrementally increase the frequency and severity of these hazards. Additionally, financial losses in the district, due to these climate hazards, has already been high, and will increase going into the future. Fire and Floods are most likely to affect the reserve in much the same Eg: damages to property by extreme weather and wild fires. The Lappiesbaai Management Plan is for the dune system at the east of the Goukou Estuary mouth and is of relevance to both the Goukou Estuary and Geelkrans Nature Reserve. These programs do not affect the reserve directly.



Western Cape Biodiversity Spatial Plan

With regards to the WCBSP and categorisation of the areas surrounding the nature reserve complex, Die Duine Private Nature Reserve is bounded by the reserve to the West, the north and east of the reserve there are combination of CBA and ESA's with natural vegetation. To the south is the coastline of the Indian Ocean.

Blomboschfontein, Groenland and Die Duine Private Nature Reserves as well as Klein Jongensfontein and Fynbosstrand Nature Reserve are surrounded by natural areas, with CBA along the coastal corridor and Other Natural on the inland boundary.

Critical Biodiversity Areas are those areas required to meet biodiversity thresholds. They are areas of land or aquatic features (or riparian buffer vegetation alongside CBA aquatic features) which must be safeguarded in their natural state if biodiversity is to persist, and ecosystems are to continue functioning. These Critical Biodiversity Areas incorporate i) areas that need to be safeguarded in order to meet national biodiversity pattern thresholds (target area), ii) areas required to ensure the continued existence and functioning of species and ecosystems (including the delivery of ecosystem services); and/or iii) important locations for biodiversity features or rare species. The CBA network represents the most land-efficient option to achieving all biodiversity targets. Any, relevant District Sector or Bioregional Plans, prepared in accordance with the Biodiversity Act.

Any relevant Environmental Management Frameworks, prepared in accordance with the National Environmental Management Act EIA Regulations.

The Integrated Development Plans (IDP), Spatial Development Frameworks (SDF) and Land Use Management Systems (LUMS) of the district and local municipalities within which the protected area falls. Refer to Figure 3.1



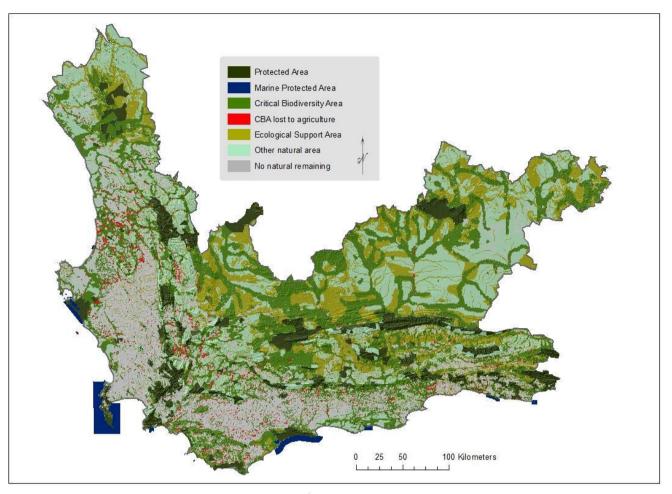


Figure 3.1 Critical Biodiversity Area map of the Western Cape

3.3 The history of Gourikwa Reserve

What is now Gourikwa Reserve, was once four different farms. The area was known as Buffelshoek. In 1980, the Atomic Energy Board (AEC) bought up the farms and renamed the area Gourikwa. The aim had been to establish a nuclear energy plant, a project which was eventually abandoned as it proved to be too expensive. During the AEC years, up to 1994, Gourikwa had been a national key point and was heavily guarded. Security fences were erected and soldiers patrolled the area. Razor wire fencing stretched right into the sea, making the area impenetrable. Any approaches from the sea were guarded by a patrol boat. The air space was off limits for fly overs. Fishermen and reed harvesters were therefore also banned from Gourikwa. Today, remnants of the activities carried out during that period, are the big store rooms, the conference centre, harbour walls and rusting steel plates on some of the rocks. The magnificent road infrastructure also dates back to this era.

The advent of the tarred road to the gates of Gourikwa, changed the face of farming in the area forever. Access to towns was suddenly easier and faster. It is told that the farmers and fishermen used to be fully self-sustained, living off the sea and the land. Small dairies, wheat, sheep and venison were staples from the land. Water came from fresh water springs, which allowed farmers to grow Lucerne, fruit trees and enormous water melons. The area is rich in Aloe Ferox, from which the bitter aloe juice was tapped. The fragrant herb buchu (Agagthosma sp), was also harvested, especially for medicinal purposes.



From the sea they harvested perlemoen, periwinkles and abundant fish. Thatch reed, Thamnochortus, was another source of income. Used in thatch roofs, the reed is still being harvested today. Wild life used to be prolific all along the dunes and towards the interior. In recent years, however, poaching has decimated the small antelope like bushbuck and duiker. The sea life also dwindled.

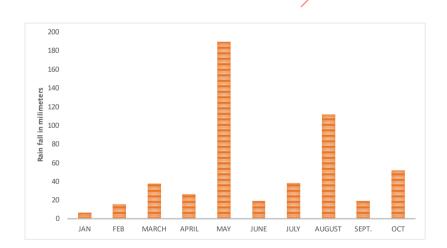
When the AEC sold Gourikwa in 1994, it was bought by a German couple, Monica and Gerhard Rein. Their dream was to establish a game reserve and a tourist destination, which they named Rein's Reserve. The cottages and fisherman's houses along the sea front were built during their reign. Upon the passing of his wife, Gerhard Rein had the beautiful chapel on the beach front built, aptly named, Monica's Kapelle.

In 2015 Mr Rein sold the property to the current owners. It was renamed Gourikwa Reserve. During 2016 the reserve, its infrastructure and all its buildings were upgraded, a project that is still continuing. The current owners feel that the word "owner" is misleading. Their vision is to be stewards of a very special parcel of land. Therefore, they advocate a close co-operation with neighbouring farmers and conservancies, such as Duineveld, Fynbos and Gouritsmond. They see these entities, as well as Cape Nature, as essential role players in their own conservation mission.

3.4 Ecological context of Gourikwa Reserve

This section reflects the ecological conditions of Gourikwa Réserve

3.4.1 Climate and weather



The climate is hinterland with cool, rainy winters and warm, dry summers.

Maximum temperatures are experienced in January (average daily max = 37°C) and minimum temperatures usually occur in July (average daily min = 13°C).

Rainfall occurs mainly in winter between mid-May and late August.

3.4.2 Topography



The Fynbos Biome is topographically diverse and this heterogeneity of habitats has been a major driving force in the creation of arguably the most diverse and unique of the temperate floras.

Gourikwa is adjacent to the sea with steep dunes directly adjacent to the beach (Figure 3.2). Continuing inland the slopes are gentle with no sheer cliff faces present (Figure 3.2). On the property the elevation changes from sea level to 277m above sea level (Figure 3.2). The topography of the property is mainly continuous with a few rounded hills (Figure 3.2). There are two small valleys present on the property, one adjacent to the beach (from sea level to approximately 120m above sea level) and the other further inland (from 180m to 240m above sea level).

3.4.3 Geology and soils

Gourikwa has two main geological rock types present, namely: calcareous sandstone (mainly from the Bredasdorp Group), clastic limestone, conglomerate, coquinite (which is present inland) (Figure 3.2) and sandstone/quartzite, shale, conglomerate, minor jaspilite (which is present adjacent to the coast) (Figure 3.2). The property has a high presence of lime within the soil, as well as grey regic sand which may contain shell material (Cape Farm Mapper, 2019). The soils on the property have limited pedological development and are therefore quite shallow (approximately 450mm deep) with a low clay content (less than 15%) (Cape Farm Mapper, 2019). The soils often have excessive drainage, especially adjacent to the coast where a high sand content is present (Cape Farm Mapper, 2019). The soils on the property have a high erodibility with an erodibility factor ranging from 0.55 adjacent to the coast to 0.63 inland (Cape Farm Mapper, 2019).

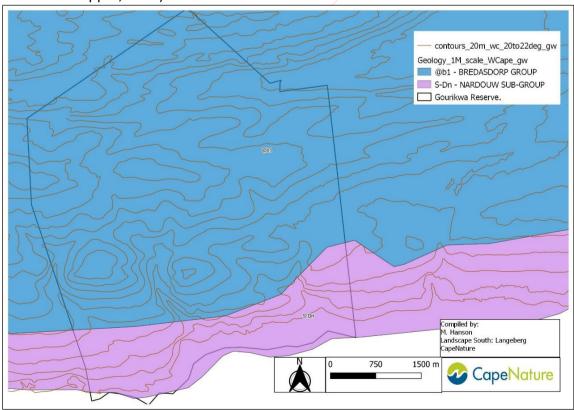


Figure 3.2 Topography and Geology of Gourikwa Reserve

3.4.3.1 Soil interfaces



Where two soil types meet there is often a "tension zone". Different soils support different vegetation types and the meeting point is known as an ecotone. The vegetation here is often a unique combination of both parent types. These ecotones are biologically important because they are often areas of active speciation. For this reason, disturbance in this zone must be avoided and it is preferable to buffer it with at least 30m of vegetation on either side.

3.4.4 Hydrology

Gourikwa falls within the Gouritz Water Management Area (Department of Water Affairs, Cape Farm Mapper, 2019). Which has a few water quality concerns including the significant role of groundwater. Within the Gouritz WMA (especially in the south) groundwater plays a significant role and there is an increase in the amount of groundwater abstraction which poses concerns about saline intrusion and the base flow of river systems. Other issues in the Gouritz WMA include the impact of agricultural practices, urbanisation and sand mining (Western Cape IWRM Action Plan, 2011).

The hydrology of Gourikwa: The property has no rivers running through it but has two wetland sites (Figure 3.4). The wetlands are both natural wetlands and are formed at the bottom of the valley, one wetland is however unchanneled and is receives it water supply from the upper drainage lines on the property (Figure 3.3) The property has groundwater which falls within a major intergranular aquifer (which yields between 0.5 - 2.0 l/s), the aquifer is classified as having a very high susceptibility and falls within the "most" vulnerable category (Department of Water and Sanitation, Cape Farm Mapper, 2019).

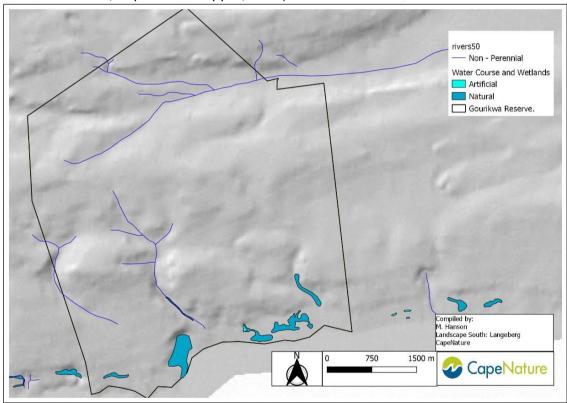


Figure 3.3 Hydrology of Gourikwa Reserve

3.4.5 Vegetation

The Cape Floristic Kingdom, one of six world floral kingdoms, is internationally renowned for its special rich flora containing an estimated 9 000 species of vascular plants of which almost 69% are endemic (restricted to the region). This makes it one of the richest regions in the world in



terms of botanical diversity. It is characterized by five endemic families and by the conspicuous presence of, amongst others, species belonging to the families Aizoaceae, Ericaceae, Fabaceae, Iridaceae, Orchidaceae, Proteaceae, Restionaceae, Rutaceae and Scrophulariaceae (Goldblatt & Manning, 2000).

Canca Limestone Fynbos:

Gourikwa has a small portion of Canca Limestone Fynbos (Figure 3.4) which falls within the Fynbos Biome and is part of the South Coast Fynbos Bioregion. The Canca Limestone Fynbos is distributed from the Breede Rivier to Mossel Bay along the coastal forelands. It currently has a least threatened conservation status with a target of 32%. A small portion is conserved in the Pauline Bohnen and Geelkrans Nature Reserves and about 3% is conserved in private conservation areas such as Gouriwka Nature Reserve and Die Duine. Currently approximately 14% has been transformed for cultivation and by alien invasive species (e.g. Acacia cyclops) (Mucina and Rutherford, 2006).

Cape Seashore Vegetation

Along the coast, Gourikwa has a small portion of Cape Seashore Vegetation (Figure 3.5). This vegetation type forms part of the Coastal Azonal Vegetation Biome and the Seashore Vegetation Bioregion. Cape Seashore Vegetation is distributed along the temperate coasts of both the Atlantic and Indian Oceans (Western and Eastern Cape), along the South West and South Coasts. This vegetation type is classified as least threatened with a target of 20%. Approximately half of the area is conserved in the West Coast, Cape Peninsula, Agulhas, Garden Route, Greater Addo Elephant

National Park, Rocher Pan, Cape Columbine, Dassen Island, Wolvengat, Kleinmond, Walker Bay, De Mond (Ramsar site), De Hoop, Kleinjongensfontein, Geelkrans, Robberg, Cape St Francis, Cape Recife, Joan Muir, Gxulu, Cape Henderson, Kwelera and Bosbokstrand Nature Reserves. Private reserves also protect considerable portions of the vegetation (Mucina and Rutherford, 2006).

Hartenbos Dune Thicket

Hartenbos Dune Thicket, previously classified as Albertinia Sand Fynbos, forms the majority of Gourikwa's vegetation (Figure 3.4). Hartenbos Dune Thicket is part of the Albany Thicket Biome and is also classified within the Albany Thicket Bioregion. This vegetation type is typically distributed longitudinally from Potberg to the Gouritz river. It currently has a vulnerable status with a target of 32%. About 5% is conserved in De Hoop, Pauline Bohnen, Geelkrans, Kleinjongensfontein, Skulpiesbaai and Blomboschfontein Nature Reserves; 2% is protected in private conservation areas such as Gourikwa Nature Reserve and Die Duine. Currently a large percentage has been transformed for cultivation, plantations and by alien invasive species (e.g. Acacia cyclops) (Mucina and Rutherford, 2006).

According to Vlok (2007) classification system the property also consists of three vegetation types: Canca Limestone Fynbos, Albertinia Sand Fynbos and Blombos Strandveld all three of which are in the Fynbos Biome (Figure 3.4).



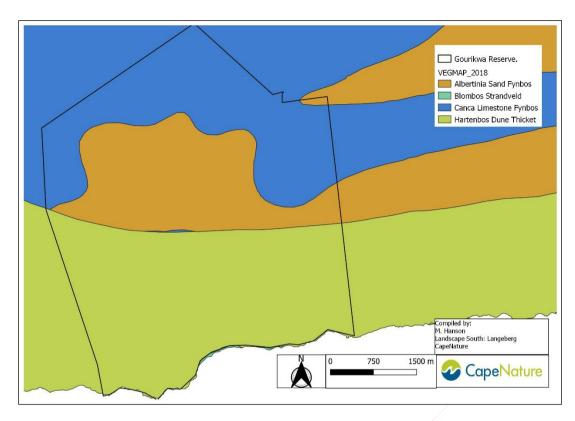


Figure 3.4 Vegetation types found on Gourikwa Reserve

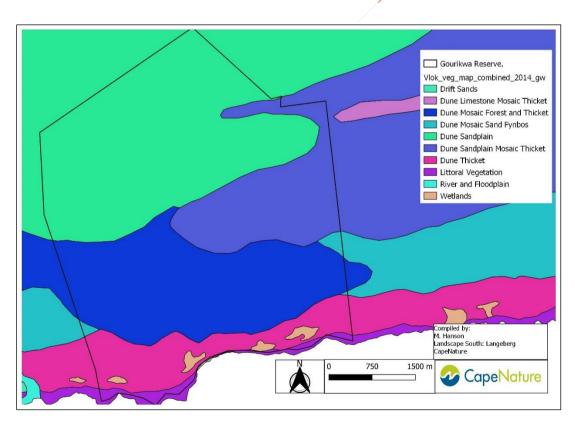


Figure 3.4.1 Fine scale Vegetation types found on Gourikwa Reserve

3.4.6 Fire regime



Ecologically the vegetation of the property benefits from fire as it influences community and species composition. Fires should however not occur frequently (once every 15-20 years) to ensure species survival, if fires occur to frequently key species may be eliminated from the community (Mucina and Rutherford, 2006). However, if the veld becomes too old and there is a build-up of fuel the fire will burn too hot and numerous species' seedbank will be depleted (Mucina and Rutherford, 2006). There are also species that do not benefit from fire (for example the Cape Milkwood) and grow within areas outside of the natural fire regime (Mucina and Rutherford, 2006) and it therefore important to ensure that fire remains outside of these areas.

The property Is divided into numerous management blocks (Figure 3.5) to help with the control of wildfires. Each management block has a cut fire break (all firebreaks are regularly maintained as part of annual preparedness before the fire season). There are also three main water points (Figure 3.6) as well as a water tanker for emergency fire suppression. The property also has numerous access roads, some double up as firebreaks, which provide easy accessibility to ensure efficient evacuation (Figure 3.6). A block of the property was burnt in 2014 to manage the dominant overstory thicket, however the majority of Gourikwa veld is over 7 years old (Figure 3.5) but continuous fuel control occurs (for example removal of alien invasives which are highly flammable). In March 2021 a control burn was implemented over 200ha of fynbos and Proteoid veld burn that was severely overgrown. Local knowledge supplied confirmed that the blocks in question had burn more than 20 years ago. (blocks JL and N, Figure 6.1)

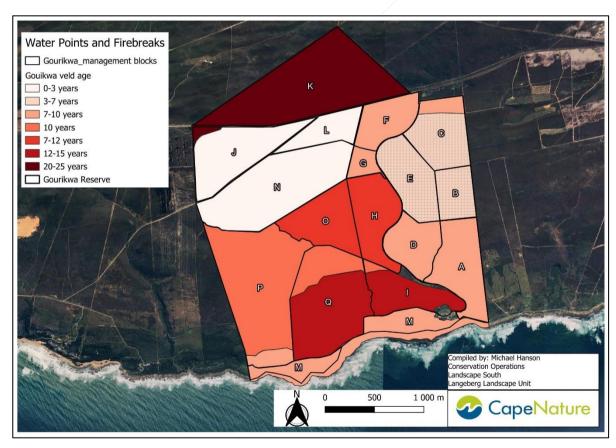


Figure 3.5 Veld Age map Gourikwa Reserve

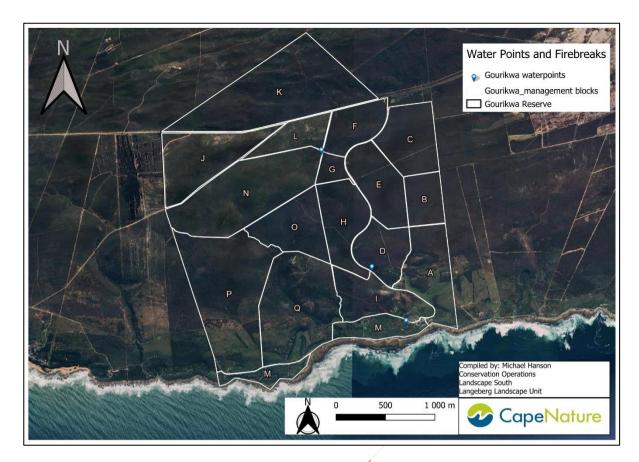


Figure 3.6: Water points, firebreaks and access roads.

3.4.7 Invasive species

The main invasive species of Invasive Alien Flora is the *Acacia cyclops* (rooikrans or red eyed wattle). Acacia cyclops is classified as a category 1b under NEMBA regulations and are therefore defined as having a high invasive potential, requiring compulsory control as part of an invasive species control program. Under NEMBA regulations these species need to be removed and destroyed. Some infestations of Acacia cyclops can qualify to be placed under government sponsored invasive species management. At Gourikwa Acacia cyclops densities range from between 6.67% to 29.67%, according to the survey done in 2019 by staff on the reserve and assisted by CapeNature Conservation off reserve staff. (Table 1). Currently there is an invasive species removal plan which removes blocks/segments of *Acacia cyclops* by contracting woodcutters who cut-down and remove the invasive species.

Cleared areas are maintained through regular removal of the juvenile plants and in firebreaks *Acacia cyclops* are cut (bossiekap) with the rest of the vegetation. A small population of Pinus species can also be found in the western corner of the property (5% density, Table 1).

Pinus spp is also defined as a category 1b invasive under NEMBA regulations and therefore require the same compulsory control efforts. Gourikwa implements the same removal methods for Pinus spp as Acacia cyclops through the cut down and removal of the species.

See Figure 6.2 for Invasive vegetation map and management compartments Gourikwa Reserve

3.4.8 Mammalian fauna

Large mammals have largely been absent from fynbos for almost two centuries and we can only speculate as to their effects on the vegetation. Fynbos however has evolved with animals and is reliant on them for its fundamental processes such as pollination and dispersal. The reserve hosts a sub-population of eight Cape Mountain Zebra that is considered a species of Conservation concern to the Western Cape. The management of the reserve must not impact the population negatively in any way. Interventions to the population taken by management shall be in line with the National Biodiversity Management Plan for the species. It is suggested that management maintain a breeding population of eight individuals and to introduce a second family group of six animals as well as three stallions in order to stimulate breeding and competition. DNA profiling and opportunistic sampling is important in determining the genetic variation of the species on the reserve. Only Genetically tested animals may be translocated to-and-from the property. Small antelope, ecotype species (bushbuck, common duiker, Cape grysbok) their persistence in the landscape must be maintained and the preservation of these small species is important. The introduction of Bontebok antelope to the reserve, which is also the natural distribution range of the species, can also be considered in conjunction with a custodian partnership agreement and the likelihood of this happening should be investigated.

National Biodiversity Management Plan – Mountain Zebra

At the end of 2015, the Cape mountain zebra meta-population comprised of approximately 4,872 individuals in 76 sub-populations throughout South Africa. The meta-population is considered stable, increasing and has exceeded the previous target set in the 2002 IUCN Equid Specialist Group Status Action Plan for the mountain zebra as a species. Apart from the three relict sub-populations occurring on protected areas (Kammanassie Nature Reserve, Gamkaberg Nature Reserve and Mountain Zebra National Park), Cape mountain zebra have been reintroduced to another nine protected areas within their natural distribution range and 7 protected areas outside the natural distribution range, comprising approximately 70% of the



population. Cape mountain zebra populations on private land were estimated at 1,481 individuals, in 2015, comprising approximately 30% of the total population.

In 2011, a partnership between CapeNature, the Wilderness Foundation, the World Wildlife Fund - South Africa and the Table Mountain Fund was initiated towards the drafting of a Biodiversity Management Plan (BMP-S) for Cape mountain zebra. The initiative was primarily aimed at integrating the efforts of the then Mountain Zebra Working Group into the BMP-S. An inter-agency collaboration between the South African National Parks, CapeNature, Eastern Cape Parks and Tourism Agency, National Zoological Gardens of South Africa, the National Department of Environmental Affairs, Northern Cape Department of Environment and Nature Conservation, Eastern Cape Department of Economic Development, Environmental Affairs and Tourism and Free State Department of Economic, Small business, Tourism and Environmental Affairs, ensued and acknowledged the need for a Cape mountain zebra BMP-S to ensure the long term survival of the species in nature.

Stakeholder engagements identified threats and challenges including the loss of genetic diversity through inbreeding and genetic drift, diseases such as equine sarcoidosis, the risk of hybridization, predation, poaching, emigration threats, and the lack of implementation of a meta-population strategy. The selection of the Cape mountain zebra for a BMP-S is based on the requirements of the NDF, its threat status, the requirement for meta-population management and inter-agency cooperation towards shared objectives for the conservation of the species, standardized monitoring, collaborative research, increased participation by landowners and opportunities as a flagship for protected area expansion and stewardship initiatives.

During the Cape mountain zebra BMP-S development process, both internal and external stakeholder consultation developed the following **desired state** for the Cape mountain zebra:

The scientifically sound conservation (including regulation) of an ecologically healthy and genetically diverse meta-population of Cape mountain zebra

The desired state is underpinned by the following goals.

- 1. Conservation of the Cape mountain zebra meta-population.
- 2. Advancement of knowledge and understanding regarding the genetic diversity of the Cape mountain zebra meta-population.
- 3. Eliminate risk for genetic contamination due to hybridization with other equine species and safeguard Cape mountain zebra in their natural distribution range.
- 4. Mitigate and manage the impact of current and emerging diseases.
- 5. Long-term monitoring of Cape mountain zebra meta-population dynamics and habitat.
- 6. Aligned legislation and mandates.
- 7. Effective communication, collaboration and coordination among stakeholders.



The prioritised **strategic objectives** of the Cape mountain zebra BMP-S are as follows:

- 1. to maintain genetic diversity in the Cape mountain zebra meta-population,
- 2. to implement monitoring and research to inform adaptive management,
- 3. to consistently and uniformly implement legislation, regulations, policies and guidelines, and
- 4. to ensure effective communication, collaboration and coordination between stakeholders and the public for Cape mountain zebra conservation.

The implementation of this BMP-S will have the following **benefits**.

- 1. The Cape mountain zebra population remains stable and increasing.
- 2. Scientifically-sound meta-population management is implemented, and through this, the full extent of the genetic diversity is represented throughout the population.
- 3. The population is ecologically healthy and secure (including being regulated effectively and efficiently).
- 4. Implementation and maintenance of sustainable off-takes to support the NDF.
- 5. Private sector support and investment in Cape mountain zebra conservation.

Considering the prioritised objectives stated in the BMP for the species, Gourikwa shall contribute to maintaining genetic diversity within the population of Cape Mountain Zebra at the reserve as well where possible contribute within meta-population. Gourikwa Reserve shall also implement a monitoring and research program that will inform adaptive management while acknowledging that any management of the species be ethical and such management overrides the financial ambitions it may have on the species in considering any use, distribution or sale thereof.

3.4.9 Avifauna

Gourikwa provides suitable habitat for a wide range of endemic and indigenous avifauna species. Among these species there has observations of near threatened African black oystercatcher (*Haematopus moquini*) and Jackal buzzards (*Buteo rufofuscus*). The reserve also has an abundance of the endemic Cape sugarbird (*Promerops cafer*). The property's coastline provides habitat for the endangered species such as the Bank- (*Phalacrocorax neglectus*) and Cape- cormorant (*Phalacrocorax capensis*) (State of Biodiversity Western Cape, 2017). Gourikwa also provides a refuge for migrant birds, especially along the coastline. The reserve provides much needed habitat for the Avifauna in the fynbos region as the property does not have any powerlines and there are no agricultural practices on the property both of which lead to bird mortalities and the decrease of bird population sizes (State of Biodiversity Western Cape, 2017). The majority of the Avifuana on the property require as little as possible habitat disturbance or destruction and often severe population declines occur when man-made infrastructure expands (State of Biodiversity Western Cape, 2017). Therefore, for Avifauna



protection management needs to adjust or maintain the vegetation to as near as possible natural state and limit any further man-made (infrastructure other than the approved).

3.4.10 Herpetofauna (reptiles and amphibians)

Currently in the Western Cape there is a lack of sufficient data on Herpetofauna, with the majority of the species requiring an increase in information collection to improve their protection (State of Biodiversity Western Cape, 2017). For Herpetofauna in the Western Cape there is also a need to improve the landscape connectivity of protected areas and increase knowledge about habitat requirements, population biology and ecology (State of Biodiversity Western Cape, 2017).

3.4.11 Invertebrates

Over 55 000 invertebrate species have been described in South Africa. The invertebrate fauna of the Western Cape is equally rich with 300 known types of butterflies, 968 arachnids, 84 dragonflies and damselflies, and 156 net-winged insects. Many only occur in this province and there are many more still to discover and document. Species specific information for the reserve is not known, possible future post graduate research programs would assist in this regard. The reserve management are open to such future program when requested.

3.5 Cultural Heritage context of Gourikwa Reserve

The origin of the name could most probably be from an indigenous group of <u>Khoikhoi</u> people who lived in the area. According to the well-known historian, <u>G. M. Theal</u>, who mentioned the explorer Hieronimus Cruse, crossing the river for the first time in 1667 coming from <u>Mossel Bay</u> in the east while heading west. Cruse found a Khoikhoi tribe named the Gourikwa, after who the river was apparently named.

Long before Gourikwa had a name, it was home to the indigenous people of South Africa. Archaeologists believe that the Khoikhoi were the builders of the fish-traps along the coast, some dating back 4000 years. These can be found among the boulders beyond the chapel.

As settlers moved into the interior during the 1700's, farms were established along the coast. It had been a very isolated farming community until the late 70's.

In 1932, the coast was placed on the map, when the SS Haliartus ran aground on the rocks at Yzervarkfontein. Cyanide for mining purposes was part of the very rich cargo. The leaked cyanide created havoc along the coast, killing fish, dolphins and all other sea life in the vicinity. A full report of the wreck can be found in the book Shipwrecks and Salvage in South Africa by Malcolm Turner.

In 1964 a lighthouse was established on the rocky outcrop on the southwestern border of the reserve, called Ystervarkpunt. The steel structure was replaced by a concrete one in 2006. It stands 51m tall and is one of the youngest lighthouses in the country with the official GPS: 34 23′ 26″ S / 21 43′ 05″ E.

3.6 Socio-economic context



The finance, real estate and business sector (contributing 32% of GDP) dominates the Western Cape economy, followed by the manufacturing sector (17% of GDP), retail and wholesale trade, catering and accommodation sector (15% of GDP) and the transport, storage and communications sector and the government services sector each contribute an additional 10% of GDP. Whilst the Western Cape economy is essentially based on secondary and tertiary activities that take place in the province's main urban centers, many of these activities relate to adding-value to the outputs of the province's agriculture, forestry and fishing sector (4% of GDP). These linkages between the Western Cape's urban and rural economies are thus significant.

The importance of the natural resource base in supporting livelihoods and its potential to improve the quality of life of all the district's residents cannot be underestimated and thus the protection and enhancement of the environment is one of the three main drivers of the spatial concept. The spatial strategy is to protect, enhance and develop the distinct attributes and resources of the Klein Karoo and Garden Route, as two different but interconnected places each with their varied:

- Natural and agricultural resource base;
- Economic role and potential; and
- Diverse landscape, lifestyle and tourism offerings.

PRIMARY SECTOR ECONOMIC ACTIVITIES:

1. Agriculture:

Despite the importance of secondary and tertiary economic activities, agriculture remains the backbone of the provincial economy. Farming in the Western Cape covers some 11.5m hectares, and contributes almost 21% of the country's agricultural production. The agricultural sector comprises: 6 682 commercial farmers, 9 844 smallholder farmers, and some 201 230 farm workers Outside the metro region agricultural production and agroprocessing of the following products underpins local economies:

- Animals & animal products (i.e. poultry, cattle, sheep, ostrich, and pigs) are produced throughout the province. Farming with Game species in the local district of Hessequa has also increased of the last five years as farmers acknowledge the sector and benefits coming from this new industry.
- Field crops (i.e. wheat, maize, barley) are produced mainly in the Malmesbury, Moorreesburg, Piketberg regions (West Coast) and Caledon and Bredasdorp (Overberg) and Hessequa Heidelberg.

Agriculture and the agro-processing industry have substantial competitive advantage in relation to the other provinces and in terms of export growth. The sector is in transition from a reliance on cheap and unskilled labour to one characterised by fewer, more skilled and better paid workers (FARE 2013). "This sector is currently subject to intense structural change which should be navigated carefully in the interests of inclusive growth. Furthermore, the impact of climate change and a potential carbon tax regime in future need to be discounted in efforts to develop this sector. Exports and the development of the local agro-processing industries as a source of local demand for agricultural products should be the focus of developmental policies" (PERO 2013, p80).

2. Tourism and accommodation

Tourism is the second most economic driver in the Hessequa region of Eden District. The Hessequa region consists of 6 main towns namely Witsand, Heidelberg, Riversdale, Albertinia,



Stilbaai and Gouritsmond and 4 villages of Slangriver, Vermaaklikheid, Melkhoutfontein and Jongensfontein. Accommodation in these 6 towns will suit the needs from hiking to hotel for every tourist either foreign or local. The Hessequa region is branded as The Explorer's Garden Route and offers visitors a world of authentic experiences like the Boosmansbos Wilderness Area, Grootvadersbosch Conservancy Mountain Bike Trails, Grootvadersbosch Nature Reserve, Heidelberg Bird Route, Gysmanshoek Mountain Pass, Korentepoort Dam & Bass Fishing, Baleia Wines, Dibiki Holiday Resort, Tuinplaas, Inverroche Gin, Kasselshoop Cheese Farm, Pallingsgat Homestead, Tuin-Op-Die-Brak Fynbos Park, Eden Park 4×4 Route, Pili Pili Adventure Centre, Anchorage Beach Restaurant & Bar, Gourikwa Nature Reserve and Hessequa Art Route. (Explore Garden Route)

4) ZONATION PLAN

The purpose of the zonation of Gourikwa Reserve is to control the intensity and type of use within it, in efforts to ensure the main goal of biodiversity conservation is met. On this basis, within some zones, the permissible intensity of use will be relatively higher than in others. Refer to Figure 4.1



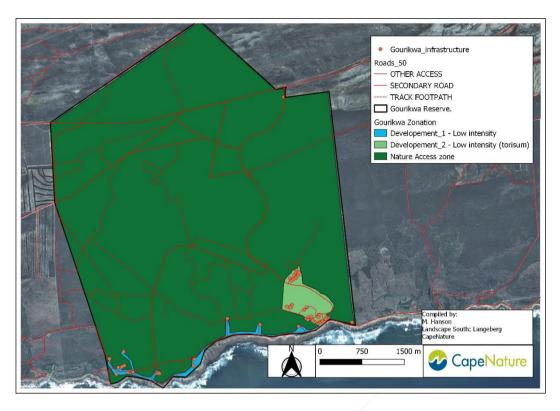


Figure 4.1 Zonation map of Gourikwa Reserve



Figure 4.1.1 Location of structures on the reserve

Table 4.1 Conceptual development guidelines.

| Zone | Zone Objective | Characteristics | Visitor Activities | Facilities / Infrastructure | Visitor Access | Management Guidelines |
|---------------|---|---|---|--|--|---|
| Nature Access | Conservation: To manage and direct visitor use, and plan infrastructure to minimise impact on sensitive environments. To actively manage users and visitor impacts. Allows for minimal or more intensive biodiversity management intervention. Provide additional protection to sensitive or threatened habitats, species or other features by Special Management Overlays Users: To provide easy access to natural landscapes with low expectation of solitude at all times. Can buffer wilderness or Primitive Zone. | Areas with extensive lower sensitivity habitats: Areas able to accommodate higher numbers of visitors regularly, with no identified sensitive or regionally rare biodiversity. Extensive areas able to accommodate roads, trails and tracks without high risk of erosion and degradation. Areas accessible for regular management of roads and trails Areas where roads and trail infrastructure can be located with low visibility from the surrounding landscape, particularly from adjacent Primitive or Wilderness Zones. Usually, areas that require active fire management with firebreaks to stay within thresholds of concern, but may also include natural burning regimes. | Guided or unguided nature observation. Day hiking trails and/or short trails. Bird hides, mountain biking & rock-climbing where appropriate. Other activities if specifically considered and approved as part of specific reserve zoning scheme. Motorised 2x4 self-drive access on designated routes. Frequent interaction with other users. | Some deviation from natural/pristine state allowed particularly on less sensitive or already disturbed/transformed sites. No accommodation; but ablution facilities may be provided. May have defined or beaconed hiking routes, tourism and management access roads, and management tracks and firebreaks. Infrastructure should be designed to reduce impacts of higher visitor numbers. Roads open to the public should be accessible by 2x4 sedan. Full width tarred or surfaced roads or roads and tracks to accommodate two vehicles are appropriate. Unsurfaced roads may be surfaced if a road planning exercise has confirmed that the location is suitable. | No special access control or permits required for this zone. Will cater for larger number of visitors than primitive zone Vehicle access on dedicated routes, with pedestrian access from parking areas or adjacent Development Zones. | Visitor Management: More frequent monitoring of these areas are necessary to prevent damage or degradation. More frequent footpath maintenance must be scheduled for busy routes, with particular attention paid to use of railings or other access control to prevent damage to sensitive areas. Unless visitor access can definitely be intensively guided and managed, re-route trails away from any sensitive local habitats or plant and animal species. Trail layout, design and construction must be specified to reduce maintenance requirements under higher use. Visible & audible human impacts to adjacent Primitive or Wilderness Zones should be mitigated Conservation Management: Habitats with lower or higher management requirements. May be natural burning zones. Prevent or restore visible trampling or any other visitor impact. Rehabilitate non-useful roads to natural vegetation. Consumptive Use: Sustainable use may be appropriate subject to a formal assessment and application in accordance with CapeNature policies. |



| Zone | Zone Objective | Characteristics | Visitor Activities | Facilities / Infrastructure | Visitor Access | Management Guidelines |
|-----------------------------|--|--|---|---|---|--|
| Development – Low Intensity | Conservation: To locate the zone and infrastructure to minimise impact on sensitive environments. To actively manage users and visitor impacts on adjacent sensitive areas. Provide additional protection to sensitive or threatened habitats, species or other features by Special Management Overlays Users: To provide access to adjacent natural landscapes with little expectation of solitude. To provide primarily self-catering accommodation or camping. Can provide for Environmental Education accommodation and access into surrounding landscapes. | Areas with extensive degraded or transformed footprints. Natural or semi-natural habitats only when use of these areas is essential to minimise infrastructure/use impacts over whole reserve. Areas able to accommodate high numbers of visitors regularly, with no identified sensitive or regionally rare biodiversity. Areas able to accommodate roads, trails and accommodation infrastructure without risk of erosion or degradation. Areas easily accessible from reserve management centre. Areas where risk of fire damage to infrastructure is low or can be mitigated without unacceptable impacts on surrounding environment. Areas not visible from Primitive or Wilderness Zones. Areas where new infrastructure can be located with low visibility from the surrounding landscape. Areas with available potable water, and not sensitive to disposal of treated wastewater via soak away. | Picnicking. Walking or bicycle access into adjacent areas. Self-catering accommodation and camping. Meeting, workshops or mini-conference activities for no more than the number of people that can be accommodated overnight in the zone. Can provide for Environmental Education accommodation and access into surrounding landscapes, but this must be carefully planned not to conflict with visitor use. | Reception offices. Self-catering accommodation for up to 130 guests in total at any time¹ No more than 6 beds per unit. Single small lodges for up to 30 guests are permissible if all facilities are contained in a compact footprint, this represents the total accommodation for the zone, and any restaurant or catering facilities are for overnight guests only. If possible, roads should be narrow with separate incoming and outgoing routes, otherwise double vehicle width roads are strongly advisable for safety and usability. Roads in this zone should be surfaced wherever possible to reduce management cost and environmental impacts. Development and infrastructure may take up a significant proportion of the zone, but planning should ensure that area still provides relatively natural outdoor experience. | Motorised self-drive 2x4 sedan car access. Tour bus access Parking areas This zone should be used to provide parking and walk-in access for day visitors to adjacent Nature Access zone if possible. | Visitor Management: Use built and infrastructure solutions to such as railings, hard surfacing and boardwalks to manage undesirable visitor impacts. Accept some impact on natural habitats in this zone unless these are specifically addressed in a Special Management Overlay. Frequent footpath and road maintenance must be scheduled for high impact routes. Visible impacts to adjacent Zones should be mitigated Conservation Management: Provide access and generate revenue. Management should aim to mitigate the impacts of the high number of visitors. L largely transformed habitats with lower management requirements. Usually fire exclusion areas. Prevent or restore visible trampling or any other visitor impact. Plan for a compact overall development footprint, avoiding dispersed infrastructure that will increase fire risk and/or environmental footprint. This is most critical in fire-prone environments. Consumptive Use: Sustainable use may be appropriate subject to a formal assessment and application in accordance with CapeNature policies. |

¹ Although this sounds high this is still in line with many CapeNature sites that would fall within this zone definition and E.g. configured as 10 x 4-sleeper self-catering units and 15 campsites this seems completely reasonable.



| Zone | Zone Objective | Characteristics | Visitor Activities | Facilities / Infrastructure | Visitor Access | Management Guidelines |
|--------------------------|--|--|--------------------|--|----------------|---|
| Development - Management | Location of infrastructure and facilities for Reserve Administration & Conservation management facilities Not compatible with tourism | Areas with extensive degraded or transformed footprints. Natural or semi-natural habitats only when use of these areas is essential to minimise infrastructure/use impacts over whole reserve. Areas able to accommodate high disturbance, with no identified sensitive or regionally rare biodiversity. Areas not visible or audible from Development - Low / High Intensity zone, but in close proximity to any other Development Zones. Areas providing easy access to reserve and infrastructure. Areas where risk of fire damage to infrastructure is low or can be mitigated without unacceptable impacts on surrounding environment. Areas not visible from Primitive or Wilderness Zones. Areas where new infrastructure can be located with low visibility from the surrounding landscape. Areas with available potable water, and not sensitive to disposal of treated wastewater via soak away. | n/a | Any reserve management infrastructure including offices, sheds, garages, stores, etc. Roads required to access these should be surfaced to reduce long-term maintenance costs and environmental impact. | none | Visitor Management: Accept some impact on natural habitats in this zone unless these are specifically addressed in a Special Management Overlay. Frequent footpath and road maintenance must be scheduled for high impact routes. Visible impacts to adjacent Zones should be mitigated Conservation Management: Management should aim to contain all activities within the smallest possible footprint. L largely transformed habitats with lower management requirements. Usually fire exclusion areas. Prevent or restore trampling or any other management impact. Plan for a compact overall development footprint, avoiding dispersed infrastructure that will increase fire risk and/or environmental footprint. This is most critical in fire-prone environments. Consumptive Use: Sustainable use unlikely to be possible in small zone. |



| Zone | Zone Objective | Characteristics | Visitor Activities | Facilities / Infrastructure | Visitor Access | Management Guidelines |
|--------------------------------|---|--|--------------------|---|---|--|
| Development – Private Areas | Private dwelling and surrounds (only applicable to privately owned & managed Contract Nature Reserves) | Private homestead Areas with existing degraded or transformed footprints. Natural or semi-natural habitats only when use of these areas is supported by a bioregional plan and specialist site assessment. | n/a | Dwellings and private accommodation areas. Roads to access these. | No access to the public without permission from landowner | Should have no negative impacts on the surrounding conservation area |

Other zones which can overlap any of the above zones = Special Management overlays:

| Special Management overlays | Objective of zone | Characteristics | Type of Activities | Facilities / Infrastructure | Type of Access | Management Guidelines |
|-----------------------------------|---|---|---|---|---|--------------------------------|
| Cultural Feature protection | Protection of localised identified important Cultural Feature | Could overlap any other zone, Permanent, temporary or temporal zone to manage important cultural or heritage features | Specific activities dependent on ability to manage activity and feature in question. | Usually none, but specific infrastructure dependent on feature in question. | Specific access dependent on ability to manage access and feature in question. | Feature specific – as required |
| Species/Habitat protection | Protection of localised identified important Biodiversity Feature | Could overlap any other zone, Permanent, temporary or temporal zone to manage important cultural or heritage features | Specific activities dependent on ability to manage activity and feature in question. | Usually none, but specific infrastructure dependent on feature in question. | Specific access dependent on ability to manage access and feature in question. | Feature specific – as required |
| Visual protection | Protection of localised sensitive viewsheds and particularly for Wilderness Zone viewsheds | . Sensitive viewsheds and particularly for areas within Wilderness Zone viewsheds | Specific activities dependent on ability to manage activity and feature in question. | No roads, firebreaks or buildings. No visible infrastructure Trails may be appropriate | Walking access likely to be appropriate | Feature specific – as required |
| Natural Resource Access | Access to identified sustainable consumptive use resources as per a resource management plant | Areas with identified natural resources formally assessed as not sensitive to harvesting and provided with a sustainable harvesting plan. | Harvesting of identified resources | None | Specific access dependent on feature in question. | Feature specific – as required |
| Rehabilitation | | This should fall under specific management objectives for any zone | | | | |



Research is permissible in all zones, except Species/Habitat protection or Cultural Protection where it may be considered on a case-by-case basis. Research that requires extensive destructive harvesting, or manipulation of more than a few square meters of habitat should not be considered in any of the Protection overlays, except where research outputs are considered essential for management of that ecosystem research cannot be done at an equivalent site elsewhere, and research results are certain to contribute substantially to management objective



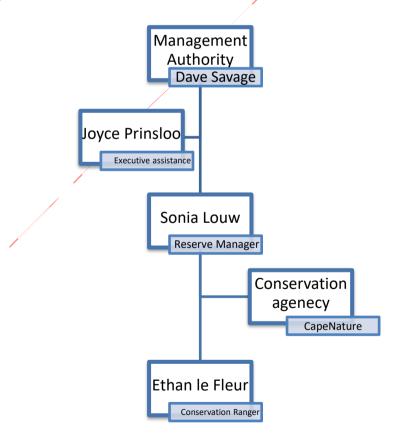
5) ADMINISTRATIVE STRUCTURE

The landowner, Gourikwa Reserve (PTY) Ltd 1999/026082/07, is appointed as the management authority for the Nature Reserve as agreed to in the Management Agreement concluded between CapeNature and the landowner. In cases where the landowner is an entity, and this entity is the Management Authority. The owner is represented by a juristic person. The Organogram below depicts the flow in which management decisions are made regarding the operational activities of the reserve.

Where applicable, Management decisions are made collaboratively between the Management Authority, it representatives and CapeNature.

The role of the conservation agency — CapeNature - is to advise and assist with the implementation of the management plan of the Nature Reserve as agreed upon.

CapeNature is also responsible for conducting an annual audit of the Nature Reserve, its Annual Plan of Operations (APO) documents and updating the Management Plan accordingly.



Organigram of the management authority structure responsible for the decision making

5.1 Five-year Costing Plan



Below is an estimated breakdown of management costs for each management objective over the ten-year period of this Strategic Management Plan. The figures listed below are considered to be realistic in-terms of the Management Authorities forecasted budget at the time of drafting this plan. The detailed budgets in the successive Annual Plans of Operation will override this costing estimate.

Table 5. Estimated annual management cost breakdown.

| Management objectives | 2025 | 2026 | 2027 | 2028 | 2029 |
|--|----------|---------|------------|------------|------------|
| 1. To manage the risks associated with uncontrolled wildfire in an integrated way to limit negative impacts on biodiversity and ecosystem function as well as the risks to human safety and infrastructure from wildfire. | R 29,800 | R31,290 | R32,854.50 | R34,497.23 | R36,222.09 |
| 2. To control (or eradicate where possible) invasive alien species using appropriate methods, and to reduce combustible material to reduce intensity and spread of wildfires, as well as the effective monitoring to prevent further introductions of invasive aliens. | R42,300 | R47,460 | R49,833 | R52,325 | R54,941 |
| 3. To conserve the biodiversity and ecosystem function of aquatic and | R100 | R105 | R110 | R116 | R122 |
| riparian systems on the reserve. 4. To identify areas of degraded ecosystems and/or habitat in the reserve, understand the causes of degradation and implement restoration/rehabilitation measures. | R650 | R683 | R717 | R753 | R791 |
| 5. To ensure the optimal long-term population health and ecological function of any plants and animals of special concern. | R760 | R798 | R838 | R879 | R923 |
| 6. To ensure effective conservation of faunal species, populations and inter-relationships in order to enhance biodiversity and maintain and improve ecosystem functioning. | R800 | R840 | R882 | R926.10 | R972.40 |
| 7. Managers and staff are supported in the implementation of the management plan by ensuring they have the necessary knowledge and skills to perform their management responsibilities. | R24,220 | R25,431 | R26,702.55 | R28,037.67 | R29,439.56 |
| 8. Stakeholders receive an increased awareness and understanding of the importance and value of functioning ecosystems and an introduction to careers in eco-tourism, hospitality and nature conservation. | R800 | R840 | R882 | R926.10 | R972.40 |

| Estimated Annual | R84,990 | R89.240 | R93.701 | R98,386 | R103,306 |
|------------------|---------|---------|---------|---------|----------|
| Management Cost: | NO4,330 | NO3,240 | K93,701 | K30,300 | K105,500 |

^{* 1} Estimate. Soil erosion budget is dependent on assessment of priority sites in YR1 and YR6.

6) OPERATIONAL MANAGEMENT FRAMEWORK

This section translates the strategic framework described in Section 2 above into Key Deliverables and Management Activities, which will be used to inform annual plans of operation and the resources required to implement them. The management targets will form the basis for monitoring of performance in implementing the plan and are thus measurable.

6.1 Biodiversity management

6.1.1 Fire management

Fire plays an important role in southern African ecology, and has important effects on vegetation composition, primary productivity and nutrient cycling. In developing a fire management strategy for the site, the following guiding principles should be adhered to:

- Burning should be undertaken in such a way that it maintains spatial and temporal heterogeneity within the landscape.
- A patch mosaic of burnt and un-burnt areas should be maintained.
- The burning of areas should be undertaken in such a way that promotes patchy burns (i.e. within the block being burnt, some patches will remain un-burnt rather than aiming for a complete burn).
- Burning must be undertaken with consideration of the biodiversity conservation requirements of the site and the need to protect rare and endangered species.
- Burning and fire management must be undertaken in a safe manner that is legally compliant with the National Veld and Forest Fire Act (No.101 of 1998).



^{* 2} IAP control budget is dependent on individual landowner assessments in YR2 and budgets.

^{*} TBD - 'To be determined'.

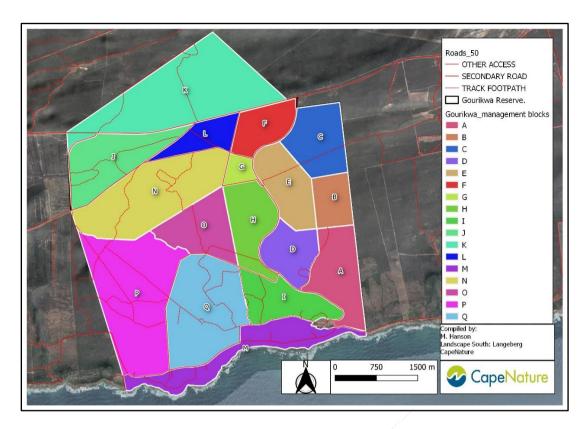


Figure 6.1 Fire Management Map for Gourikwa Reserve

Table1: Block burning Schedule:

| Block Colour | Block | Year burnt | Year of next burn | Comments |
|----------------|-------|------------|----------------------|--|
| Light-red | А | 2015 | 2037 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Orange | В | 2015 | 2038 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Blue | С | 2015 | 2039 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Moonstone blue | D | 2016 | 2038 | Has been burnt recently +/- 5 years old |
| Khaki brown | E | 2016 | 2038 | Has been burnt recently +/- 5 years old |
| Scarlet Red | F | 2015 | 2039 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Lime-green | G | 2015 | 2029 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Light-Green | Н | 0 | 2024 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Green | ı | 0 | 2028 | The block is approximately 5 years old. Fynbos needs 10 years and more before burning can be considered. |

| Sea-green | J | 2021 | 2040 | Control burn in March 2021 was effective. Fixed point Photography monitoring to follow in March 2022. |
|------------|---|------|------|--|
| Turquoise | К | 2001 | 2026 | There is no historical record of previous burns for this block, local knowledge suggests the block is 25 years old |
| Royal blue | L | 2021 | 2040 | Control burn in March 2021 was effective. Fixed point Photography monitoring to follow in March 2022. |
| Purple | М | 2016 | 2028 | Costal vegetation possibly no burn |
| Stone | N | 2021 | 2040 | Control burn in March 2021 was effective. Fixed point Photography monitoring to follow in March 2022. |
| Maroon | 0 | 0 | 2030 | The block is approximately 7 years old. Fynbos needs 10 years and more before burning can be considered. |
| Light pink | Р | 2012 | 2026 | Is approximately 10 years old |
| Light blue | Q | 2010 | 2032 | The block is approximately 12 years old. Fynbos needs 10 years and more before burning can be considered. |

^{0*} denotes unknown value.



Table 6.1 Operational Management Framework

| FIRE MANAGEMENT | | | | | | |
|---|---|-----------------------------------|-----------|--|--|--|
| | · To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | | | | | |
| Objectives | · To implement effective Integrated Catchment Managemen | t. | | | | |
| | · To allow for natural fire processes to occur without impact | ing on safety and infrastructure. | | | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe | | | |
| | Construct Priority Firebreaks according to Schedule. | | | | | |
| | Negotiate Firebreak Agreement with Neighbours. | | | | | |
| Reduce/Prevent the Spread of Fires. | Fuel Reduction around Infrastructure to Minimise Risk. | Management Authority | Annually | | | |
| | Conduct Pre-Fire Season Fire Audit. | | | | | |
| | Mapping of all Fires and Capture on GIS. | | | | | |
| | Attend Local FPA Meetings. | | | | | |
| Maintain Partnerships to Improve Fire Management. | Maintain Firebreak Agreements with Neighbours. | Management Authority | Annually | | | |
| | Attend Pre-Fire Season meetings with local Fire & Rescue Service. | | | | | |
| | Establish a series of Fixed Point Photography Monitoring Plots. | | | | | |
| Determine and Implement Thresholds of Potential | Conduct Permanent <i>Protea spp.</i> Plot Monitoring. | Management Authority | Annually | | | |
| Concern. | Conduct Post-Fire Regeneration Monitoring. | CapeNature | | | | |
| | Set and Monitor Thresholds of Potential Concern. | | | | | |
| | Create Fire Awareness Programme for Members and Staff | | | | | |
| Reduce Wildfires due to Human Negligence. | Eradication and Control of Alien Vegetation Infestations where Necessary (see AVM management) | Management Authority | Annually | | | |



6.1.2 Invasive vegetation management

A listed invasive species means any species, which is listed in terms of section 70 of the Biodiversity Act, whose establishment and spread occurs outside of its natural distribution range. In undertaking invasive plant control, the following guiding principles will be adhered to:

- Invasive plant control will require an ongoing programme that prioritises key infestations along water courses, drainage lines and upper catchment areas.
- Initial clearing efforts should focus on containing infestations that are most likely to spread into new areas.
- All follow-up requirements must be strictly adhered to otherwise the problem will be exacerbated.
- Strategic partnerships and poverty relief programmes such as the Working for Water programme should be utilised.

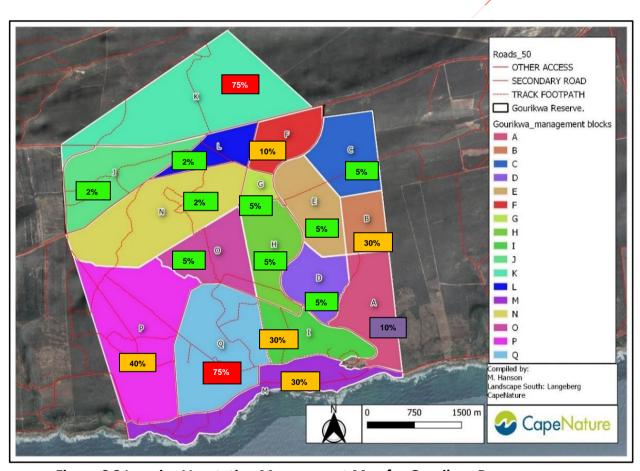


Figure 6.2 Invasive Vegetation Management Map for Gourikwa Reserve

| Mangament Block | Infestation Density | Density Estimate % | Veld Age | Year of Next Burn |
|--------------------|---------------------|-----------------------|----------|----------------------|
| Α | Moderate | 10% | 7-10 y | 2037 |
| В | Moderate | 30% | 3-7 y | 2038 |
| С | Minimal | 5% | 3-7 y | 2039 |
| D | Minimal | 5% | 7-10 y | 2037 |
| E | Minimal | 5% | 3-7 y | 2033 |
| F | Moderate | 10% | 7-10 y | 2039 |
| G | Minimal | 5% | 7-10 y | 2024 |
| Н | Minimal | 5% | 7-12 y | 2024 |
| I | Moderate | 30% | 12-15 y | 2028/2032 |
| J | Minimal | 2% | 0-3 y | 2040 |
| K | Dense | 75% | 20-25 y | 2025/2026 |
| L | Minimal | 2% | 0-3 y | 2040 |
| М | Moderate | 30% | 3-7 y | 2038 |
| N | Minimal | 2% | 0-3 y | 2040 |
| 0 | Minimal | 5% | 7-12 y | 2030 |
| P | Moderate | 40% | 10 y | 2033/2034 |
| Q | Dense | 75% | 12-15 y | 2028/2032 |



| INVASIVE VEGETATION MANAGEMENT | | | | | | | |
|--|--|---|-----------|--|--|--|--|
| | · To enhance biodiversity protection and conservation. | · To enhance biodiversity protection and conservation. | | | | | |
| Objectives | · To ensure conservation of species and processes by maintaining | g and improving ecosystem functionir | ng. | | | | |
| | · To implement effective Integrated Catchment Management. | · To implement effective Integrated Catchment Management. | | | | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe | | | | |
| Eradicate Alien and Invasive Species | Identify and Map all Alien Invasive Flora Within or Threatening the Reserve. Compile a Management Unit Clearing Plan. | MA / CapeNature | Annually | | | | |
| Implement Biological Control | Identify Areas in Maintenance Phase. Identify Potential Biological Control Sites and Prioritise Accordingly. Map and Update Biological Control Sites. Implement New and Supplement Existing Biological Control. Monitor Success of Biological Control. Ensure Accurate Record keeping of Biological Control Data. Ensure Biological Control Site Security. | MA / CapeNature | Ongoing | | | | |
| Prevent Further Introduction of Aliens | Ensure Surrounding Landowners are aware of Relevant Legislation. | CapeNature | Ongoing | | | | |



6.1.3 Wildlife Management

To promote the conservation of indigenous fauna as an important component contributing to and maintaining ecosystem functioning.

Small antelope (Cape Grysbok, Common (Grey) Duiker, Steenbok and Vaal (Grey) Rhebok) occur naturally in the area, and move freely between farms. There is currently no need to manage these populations.

6.1.3.2 Reintroduction of Game

Before reintroduction the following points need to be considered:

- Was the desired species naturally resident in the area?
- Why did the animal become extinct in the area?
- Is that causal factor still a threat?
- Is the habitat still suitable for the species?
- What are the potential negative effects of the reintroduction?
- Where is the nearest existing population?

Commission a reintroduction policy and plan for species that used to occur in the area and the suitable carrying capacities. Investigate the potential for reintroductions, specifically small game, which may have previously occurred naturally in the area. Herbivores are essential for biodiversity and ecosystem processes to persist.

The careful reintroduction of species can enhance the conservation value of the area and increase the marketability of the Nature Reserve. All reintroductions must be based on sound ecological principles. CapeNature must be consulted on the translocation and reintroduction of all fauna.



| WILDLIFE MANAGEMENT | | | | | | | | |
|---|--|---|-----------|--|--|--|--|--|
| | · To enhance biodiversity protection and conservation. | | | | | | | |
| Objectives | | · To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | | | | | | |
| | · To implement effective Integrated Catchment Management. | | | | | | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe | | | | | |
| Provent the Introduction of Alien Species | Formulate Policy regarding Domestic Animals in the Reserve. | MA | Ongoing | | | | | |
| Prevent the Introduction of Alien Species | No Introduction of Alien Fish Species into River Systems. | IVIA | Ongoing | | | | | |
| | Identify the Occurrence of Alien Fauna on Nature Reserve. | | | | | | | |
| Control Alian and Invasive Species | Monitor Populations of Alien Fauna on the Reserve. | MA / CapeNature | Onneine | | | | | |
| Control Alien and Invasive Species | Implement Control Measures where appropriate. | | Ongoing | | | | | |
| | Measure Success of Control Methods utilised. | | | | | | | |
| | All possible introductions of game need to be in accordance with all | | | | | | | |
| Manage the introduction of fauna on the | the necessary permits and permissions of CapeNature. This includes | | | | | | | |
| Reserve | the construction of and maintenance of a fence according to the CapeNature policy, after which a Certificate of Adequate Enclosure | | | | | | | |
| | (CoAE) certificate will be issued (Appendix? Guidelines of CoAE) | | | | | | | |
| | Impact in the Reserve by large herbivores needs to be closely | | | | | | | |
| | monitored. Monitoring is to be carried out by a mutually agreed third | | | | | | | |
| Evaluate and monitor the impact of fauna | party, who will prescribe indicators of change to determine when | | | | | | | |
| on the Reserve | management interventions will be necessary. | | | | | | | |
| on the neserve | Hunting of game is permitted under the hunting proclamation and | | | | | | | |
| | rights obtained from the CoAE in the Contract Reserve provided it is to | | | | | | | |
| | manage the game population and remove surplus game | | | | | | | |



6.1.4 Sustainable Harvesting

The Sustainable Utilization of Wild Fynbos Resources ensures that the use does not exceed the regenerative and/or productive capacity of the specific plant species. It is important, therefore, to make certain that species are harvested in a manner that minimizes harvesting impact on individual populations. These standards are as follows:

- A cautionary approach must be followed whereby an amount not exceeding 50 % of the flower heads produced on a yearly basis by a plant shall be removed.
- No harvesting may occur one year prior to a burn.
- No harvesting of seeding plants between one and five years after a burn.
- Correct harvesting equipment that is in good working condition must be used at all times.
- No cuts shall be made to old growth of the plant stem and cuts must be at an angle of 45° to the stem.
- No breaking or uprooting of plants is allowed.
- Binding twine must be transported in a closed container and it is the responsibility of pickers to remove binding twine from their harvesting location.
- No litter must be left in the harvesting location.

It is therefore important to ensure that Pickers, Supervisors or Contractors must have completed an accredited sustainable harvesting course. Skills development programs must be in place for all pickers that have not attended the course.

An exclusion block representative of all harvestable species utilized must be created to ensure population persistence. The block should be demarcated and included on the map incorporating the management zones. The exclusion block may be utilized further for research and monitoring purposes.



| SUSTAINABLE HARVESTING | | | |
|--|--|----------------|------------|
| | · To ensure the sustainable use of Wild Fynbos Resources. | | |
| Objectives | · To ensure the conservation of biodiversity where harvesting operations occur. | | |
| | · To monitor the impact of harvesting on selected Fynbos species. | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe |
| Identify Management Zones | Map the boundaries of the property | MA/CN | Annually |
| identify ivialiagement zones | Divide the property into management zones. | IVIAYCIN | Aillidally |
| | Classify harvestable species according to Vulnerability Index | | |
| Classify Floral Species according to Vulnerability Index | Develop list of harvestable species as per floral licence on the property | MA/CN | Annually |
| | Classify harvestable species according to their distribution per management zone | | |
| Minimise Harvesting Impact | Harvesting Guidelines must be adhered to | MA | On-going |
| willimise narvesting impact | Pickers/Contractors must be accredited | IVIA | |
| | Daily Harvesting Record Maintained | | |
| Record Keeping | Monthly Harvesting Records Submitted | MA | On-going |
| | Invoice and Delivery Note System Maintained | | |
| Compliance with Polovant Logislation | Possession of Valid CapeNature Flora License | MA | On going |
| Compliance with Relevant Legislation | Understanding of legislation relevant to protected flora | IVIA | On-going |
| Monitoring | Identify and demarcate exclusion zones representative of harvestable species | CN | On going |
| Monitoring | Monitoring Program in place to develop Thresholds of Potential Concern | CIV | On-going |



6.1.5 Erosion Prevention and Control

In addressing soil erosion, the following guiding principles should be adhered to:

- Areas impacted by soil erosion should be stabilised and re-vegetated with indigenous plant species to prevent the spread of listed invasive plant species.
- Areas susceptible to soil erosion, or showing early signs of soil erosion such as loss of vegetation cover, must be managed to prevent soil erosion.

| EROSION PREVENTION AND CONTROL | | | |
|-----------------------------------|---|----------------|-----------|
| | · To ensure the sustainable use of Wild Fynbos Resources. | | |
| Objectives | · To ensure the conservation of biodiversity where harvesting operations occur. | | |
| | · To monitor the impact of harvesting on selected Fynbos species. | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe |
| Prevent and Mitigate Soil Erosion | Conduct a Soil Erosion Assessment | MA | Annually |
| | Map Erosion Sites and Ensure Photographs are available. | | |
| | Compile an Erosion Maintenance Plan. | | |
| | Monitor the effectivity of the Erosion Control Mitigation. | | |
| | Monitor Cost Effectiveness of Maintenance. | | |
| | Monitor Site Recovery | | |
| | Conduct a Roads and Footpath Assessment. | | |



6.1.6 Monitoring and Baseline Data Collection

Information on the locality of Rare, Endangered and Endemic species is necessary to ensure effective management and monitoring of populations. This objective aims to improve the biological knowledge base through the implementation and promotion of effective baseline data collection and research opportunities.



| MONITORING AND BASELINE DATA COLLECTION | | | |
|---|--|----------------|-----------|
| Objectives | · To manage biodiversity knowledge to ensure effective conservation management. | | |
| | · To implement measures to ensure resilience and persistence of biodiversity in light of climate change. | | |
| | · To ensure the implementation of effective conservation management interventions. | | |
| | To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe |
| Compile Ecological Plan of Operations (in APO) and insert into CapeNature Conservation Services Ecological Matrix | Collate all relevant Monitoring and Research Protocols and Data Sheets. | MA/CapeNature | Annually |
| | Insert [insert sites name] into the CapeNature Conservation Services Ecological Matrix for the Area. | | |
| Create a Biodiversity Resource Inventory | Prioritise Species for inclusion in the CapeNature Conservation Services Ecological Matrix. Collect Specimens and Submit to CapeNature Scientific Services. | MA/CapeNature | Annually |
| Implement Monitoring Programme | Review Monitoring Protocols. | MA/CapeNature | Annually |
| | Identify Monitoring Needs of Nature Reserve in consultation with CapeNature. | | |
| | Establish Indicators for Monitoring. | | |
| | Implement Monitoring Activities as per Ecological Matrix (see above). | | |
| | Report on Monitoring Activities as per Ecological Matrix (see above). | | |
| | Analyse data, re-assess and implement Adaptive Management Strategies. | | |



6.1.7 Biodiversity and security

Develop an integrated security strategy for the Nature Reserve. Access to the Nature Reserve needs to be controlled and conditions of entry for visitors into the Nature Reserve should be clearly stipulated on signboards at access points.

| BIODIVERSITY SECURITY | | | |
|---|---|----------------|-----------|
| Objectives | · To enhance biodiversity protection and conservation. | | |
| Objectives | · To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe |
| Improved security and safety of the biodiversity assets on the Nature Reserve | Ensure Notarial Deed with surveyor diagram and title deed restrictions are registered with the Notary and Surveyor General against the property | MA/CapeNature | Once off |
| | Ensure Conservation Area is rezoned to appropriate conservation zoning, e.g. Open Space III Ensure appropriate signage at access points. | | |



6.2 Tourism development

In developing tourism within the biodiversity stewardship site, the following guiding principles should be adhered to:

- Tourism products must be appropriate to the site's values and must not threaten its biodiversity or ecological function.
- In developing tourism products, requirements for environmental authorisation must be considered and adhered to.
- Tourism products should be designed to capitalise on the unique beauty and biodiversity features of the site.
- Tourism products should be developed in response to tourism market demands and opportunities within the site and should be carefully assessed to determine their viability.

| DEVELOPMENT OF TOURISM OPPORTUNITIES | | | |
|--|--|----------------|-----------|
| · To evaluate potential tourism opportunities. | | | |
| Objectives | · To implement effective management systems. | | |
| | · To ensure legal compliance and implementation of authorised development plans. | | |
| Key Deliverables | Management Activities | Responsibility | Timeframe |
| Development of tourism opportunities that generate | Planning and development of hiking routes, mountain bike trails, and basic | Management | As |
| revenue for the Nature Reserve | facilities to cater for visitors to the Nature Reserve | Authority | required |
| | | , | - |



6.3 Operational Management

6.3.1 Legal Compliance

Through the landowners of the biodiversity stewardship site, the management authority has been mandated to enforce laws related to the conservation of the site, which prohibit particular activities. In fulfilling this role, the managers of Gourikwa Reserve will adhere to the following guiding principles:

- Law enforcement efforts should be coordinated with the relevant authorities including CapeNature and the South African Police Service in addressing offences and breaches of the law.
- Law enforcement at the site will be undertaken through surveillance, monitoring and appropriate reaction in the event of an offence.

| LEGAL COMPLIANCE | | | |
|---|--|-------------------------|-----------|
| Objectives | · To ensure legal compliance to all relevant legislation and policies. | | |
| Key Deliverable | Management Activities Responsibility Timefrai | | Timeframe |
| Ensure that all legal requirements are met. | All development needs to be done according to the NEMA principles and follow the applicable legislation and procedures of all relevant stakeholders. All water management within the Reserve must comply with the National Water Act (No 36 of 1998). Abstraction of water from water sources originating in the Reserve must not affect the biodiversity of the Reserve | Management Authority | Ongoing |



6.3.2 Management Effectiveness

| MANAGEMENT EFFECTIVENESS | | | | |
|------------------------------------|--|---|----------|--|
| Objectives | · To implement effective management systems. | | | |
| Key Deliverable | Management Activities | Management Activities Responsibility Timefram | | |
| Annual audit completed. | Conduct annual audits. | Management Authority/ | Annually | |
| Auditing systems inform management | Implementation, annual review and update of management plan | CapeNature | | |
| | Compile detailed work plan identifying specific targets for achieving management | | | |

6.3.3 Infrastructure development and management

In order for Gourikwa Reserve to operate appropriately, adequate infrastructure needs to be developed and maintained both for management and tourism purposes. In addressing infrastructure needs at the site, the following guiding principles will be adhered to:

- Infrastructure must be maintained to avoid any damage to the environment and ensure the safety of staff and visitors to the site.
- Infrastructure must be provided to ensure the effective management and operation of the nature reserve.



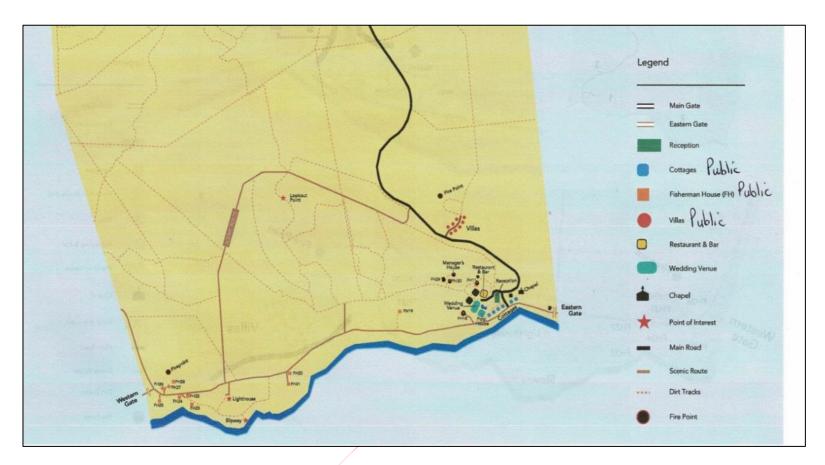


Figure 6.3 Infrastructure on Gourikwa Reserve.



| INFRASTRUCTURE | | | |
|--|---|--------------------------------------|-------------------|
| · To ensure the implementation of effective conservation management interventions. | | | |
| Objectives | · To enhance biodiversity protection and conservation. | | |
| | · To ensure conservation of species and processes by maintaining and improving ecosystem functioning. | | |
| | | | |
| Key Deliverable | Management Activities | Responsibility | Timeframe |
| Key Deliverable All infrastructures on the Reserve is adequately maintained. | Management Activities Develop and implement a scheduled maintenance programme to maintain facilities and infrastructure in a condition that meet relevant environmental, | Responsibility Management Authority | Timeframe Ongoing |



7) ANNUAL PLAN OF OPERATION AND REVIEW

Monitoring and reporting enable the effective assessment of management interventions. If necessary, it can be used to direct modifications of management in an effort to achieve the outcomes required.

7.1 Annual Plan of Operation

The Annual Plan of Operation (APO) gives life to the Operational Management Framework on an annual basis and allows for progress to be tracked.

See Table 7.1

7.2 Management Plan Review

The purpose of undertaking an annual review of implementation of the protected area management plan will be to:

- Determine how effectively the management plan has been implemented.
- Assist in determining the focus for the annual plan of operation and the setting of appropriate time frames and budgets.
- Enable effective adaptive management by identifying changes and modifying management interventions.

The annual audit will form the basis of the management plan review. This should include records of recommendations for update/changes to the annual revision of the management schedules as well as the five-year plan. The Annual Plan of Operation (APO) is in a similar format to the Annual Audit See Appendix D below, allowing for a seamless transition of information from Audit to new APO.

7.3 Budget allocation for operations

Budget requirements to implement operational activities on a reserve is crucial for the long-term management of the nature reserve. Gourikwa Nature Reserve has adequate budget for its day-to-day operations. There is a budget or costing document at reserve level.

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LIST OF STATUTES TO WHICH THE GOURIKWA RESERVE IS SUBJECT

Biodiversity and Cultural Resource Management and Development:

- Animals Protection Act [No. 71 of 1962]
- Atmospheric Pollution Prevention Act [No. 45 of 1965]
- Conservation of Agricultural Resources Act [No. 43 of 1983]
- Constitution of the Republic of South Africa [No. 108 of 1996]
- Criminal Procedures Act [1977]
- Environment Conservation Act [No. 73 of 1989]
- Forest Act [No. 122 of 1984]
- Hazardous Substances Act [No. 15 of 1973]
- Western Cape Heritage Management Act [No. 10 of 1997]
- Western Cape Nature Conservation Management Act [No. 9 of 1997]
- National Environmental Management Act [No. 107 of 1998]
- National Environmental Management: Biodiversity Act [No. 10 of 2004]
- National Environmental Management: Protected Areas Act [No. 57 of 2003]
- National Forests Act [No. 84 of 1998]
- National Heritage Resources Act [No. 25 of 1999]
- National Water Act [No. 36 of 1998]
- National Water Amendment Act [No. 45 of 1999]
- National Veld and Forest Fire Act [No 101 of 1998]
- Nature Conservation Ordinance [No. 15 of 1974]
- Western Cape Biodiversity Management Act [No. 6 of 2021]

General Management:

- Development Facilitation Act [No. 67 of 1995]
- Disaster Management Act [No. 57 of 2002]
- Fire Brigade Services Act [No. 99 of 1987]
- Local Government: Municipal Systems Act [No. 32 of 2000]
- National Road Traffic Act [No. 93 of 1996]
- National Building Standards Act [No. 103 of 1977]
- Occupational Health and Safety Act [No. 85 of 1993]
- Western Cape Planning and Development Act [No. 5 of 1998]
- Water Services Act [No. 108 of 1997]

Financial Management:

• Public Finance Management Act [No. 1 of 1999]

Human Resource Management:

- Basic Conditions of Employment Act [No. 75 of 1997]
- Broad-Based Black Economic Empowerment Act [No. 53 of 2003]
- Compensation for Occupational Injuries and Diseases Act [No. 130 of 1993]
- Employment Equity Act [No. 55 of 1998]
- Labour Relations Act [No. 66 of 1995]
- Occupational Health and Safety Act [No. 85 of 1993]
- Pension Funds Act [No. 24 of 1956]
- Skills Development Act [No. 97 of 1998]
- Skills Development Levies Act [No. 9 of 1999]
- Unemployment Insurance Act [No. 63 of 2001]

A brief summary of the most applicable legislation:

Protected Areas are proclaimed under section 23(1) of the National Environmental Protected Areas Act, 57 of 2003, ("the Protected Areas Act").

• Protected Areas Act (Act No. 57 of 2003)

The [Minister/MEC] is empowered, under section 23(1) of the National Environmental Protected Areas Act, 57 of 2003, ("the Protected Areas Act") to declare an area as a Conservation Area if:

- 1 It has significant natural features or biodiversity;
- Is in need of long-term protection for the maintenance of its biodiversity or for the provision of environmental goods and services.

Both of the above criteria pertain to the De Rust Nature Reserve and are discussed in detail under "Conservation Significance".

Biodiversity management agreements

The Minister may enter into a biodiversity management agreement with the person, organization or organ of state identified in terms of section 43(2), or any other suitable person, organization or organ of state, regarding the implementation of a biodiversity management plan, or any aspect of it.

Biodiversity Act (Act No. 10 of 2004)

Objectives of Act

(a) within the framework of the National Environmental Management Act, to provide for—

- (i) the management and conservation of biological diversity within the Republic and of the components of such biological diversity;
- (ii) the use of indigenous biological resources in a sustainable manner; and
- (iii) the fair and equitable sharing among stakeholders of benefits arising from bio-prospecting involving indigenous biological resources;
- (b) to give effect to ratified international agreements relating to biodiversity which are binding on the Republic;
- (c) to provide for co-operative governance in biodiversity management and conservation; and
- (d) to provide for a South African National Biodiversity Institute to assist in achieving the objectives of this Act.

• National Veld and Forest Fire Act (Act No. 101 of 1998)

Purpose

'The purpose of the Act is to prevent and combat veld, forest and mountain fires throughout the Republic.''

Firebreaks

In terms of section 12 and 14 every landowner must prepare and maintain a firebreak as determined in section 13. Failure to do so is an offence in terms of section 25(3), unless he has been exempted by the Minister in terms of section 15.

Fighting Preparedness

There is also a further duty on landowners to have equipment, protective clothing and trained personnel available in the eventuality that there may be fire on their property (section 17). Failure to meet this requirement is an offence in terms of section 25(4).

• Conservation of Agricultural Resources Act, 1983 (No 43 of 1983)

Purpose

CARA is an act of the National Department of Agriculture and makes provision for the conservation of the natural agricultural resources of South Africa through:

- 1. Maintaining the production potential of land;
- 2. Combating and preventing erosion;
- 3. Preventing the weakening or destruction of water sources;
- 4. Protecting the vegetation; and
- 5. Combating weeds and invader plants.



Applicable CapeNature policies

- Nature Conservation Ordinance (19/1974)
- Western Cape Nature Conservation Board Act No 15 of 1998
- Nature and Environmental Conservation Regulations (Provincial Notice 955/1975)
- CNC WC Fire Management Plan and Guidelines
- CNC Guidelines for the management of leopard management areas
- CNC Baseline and monitoring manual
- CNC guideline for river maintenance
- Policy on the re-establishment of Cape Mountain Zebra Populations
- Policy on the certificates of adequate enclosure
- Hunting Proclamation
- National Water Act, 1998 (No 36 of 1998)

Other Relevant Legislation:

- Municipal Systems Act
- National Water Act, 1998 (No 36 of 1998)
- Constitution of the Republic of South Africa Act, 1996 (No 108 of 1996)
- Environment Conservation Act No 73 of 1989
- Forest Act No 122 of 1984
- National Environmental Management Act, 1998 (No 107 of 1998)
- National Heritage Resources Act, 1999 (No 25 of 1999)
- World Heritage Convention Act, 1999 (No 109 of 1999)
- Western Cape Tourism Act, No. 3 of 1997
- Mountain Catchment Areas Act, 1970 (Act No. 63 of 1970)
- The administration of the Act has been assigned to the Board by virtue of Act 3 of 2000 as published in Provincial Gazette Extraordinary No. 5442 dated 24 March 2000
- Land Use Planning Ordinance 15/1985 (section 29)

(THERE MIGHT BE OTHER LEGISLATION APPLICABLE TO THE CONTRACT NATURE RESERVE AND IT IS THE LANDOWNER'S RESPONSIBILITY TO DETERMINE THIS IF NECESSARY.)



COPY OF GOURIKWA RESERVE PROCLAMATION

11 March 2022

Province of the Western Cape: Provincial Gazette 8564

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PROVINCIAL NOTICE

P.N. 30/2022

11 March 2022

DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING NATIONAL ENVIRONMENTAL MANAGEMENT: PROTECTED AREAS ACT, 2003 (ACT 57 OF 2003)

DECLARATION OF GOURIKWA NATURE RESERVE

I, Anton Wilhelm Bredell, Provincial Minister of Local Government, Environmental Affairs and Development Planning in the Western Cape, under section 23(1)(a)(i) of the National Environmental Management: Protected Areas Act, 2003 (Act 57 of 2003), declare a nature reserve on:

Portion 15 of the Farm Buffelshoek No. 455, situated in the Hessequa Municipality, Division of Riversdale, Western Cape Province; In extent: 2 455, 4711 (Two Thousand Four Hundred and Fifty-Five comma Four Seven One One) hectares; Held by Deed of Transfer No. T66753/2015.

I assign the name "Gourikwa Nature Reserve" to the reserve, of which the boundaries are reflected on Surveyor-General Diagram 8463/1985, as set out in the Schedule. The Surveyor-General Diagram may also be viewed at https://www.capenature.co.za/care-for-nature/stewardship/.

Signed at Cape Town on this 2nd day of March 2022.

AW BREDELL PROVINCIAL MINISTER OF LOCAL GOVERNMENT, ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING

PROVINSIALE KENNISGEWING

P.K. 30/2022

11 Maart 2022

DEPARTEMENT VAN OMGEWINGSAKE EN ONTWIKKELINGSBEPLANNING

"NATIONAL ENVIRONMENTAL MANAGEMENT: PROTECTED AREAS ACT, 2003" (WET 57 VAN 2003)

VERKLARING VAN GOURIKWA NATUURRESERVAAT

Ek, Anton Wilhelm Bredell, Provinsiale Minister van Plaaslike Regering, Omgewingsake en Ontwikkelingsbeplanning in die Wes-Kaap, kragtens artikel 23(1)(a)(i) van die "National Environmental Management: Protected Areas Act, 2003" (Wet 57 van 2003), verklaar 'n natuurreservaat op:

Gedeelte 15 van die Plaas Buffelshoek Nr. 455, geleë in die Hessequa Munisipaliteit, Afdeling Riversdale, Provinsie Wes-Kaap; Groot: 2 455, 4711 (Twee Duisend Vier Honderd Vyf-en-Vyftig komma Vier Sewe Een Een) hektaar; Gehou kragtens Transportakte Nr. T66753/2015.

Ek ken die naam "Gourikwa Natuurreservaat" toe aan die reservaat, waarvan die grense weergegee word op die Landmeter-generaaldiagram 8463/1985 soos uiteengesit in die Bylae. Die Landmeter-generaaldiagram kan ook gevind word by https://www.capenature.co.za/care-for-nature/

Geteken te Kaapstad op hierdie 2de dag van Maart 2022.

AW BREDELL PROVINSIALE MINISTER VAN PLAASLIKE REGERING, OMGEWINGSAKE EN ONTWIKKELINGSBEPLANNING

SPECIES LISTS

Flora species

| Species | Conservation Status |
|--|---------------------------------------|
| Ophioglossum nudicaule L.f. | Least Concern |
| Cyathea capensis (L.f.) Sm. | Not Threatened |
| Asplenium adiantum-nigrum L. | |
| Gleichenia polypodioides (L.) Sm. | Least Concern |
| Elaphoglossum angustatum (Schrad.) Hieron. | Least Concern |
| Todea barbara (L.) T.Moore | Least Concern |
| Microsorium ensiforme (Thunb.) Schelpe | 20051 0 51.105 |
| Cheilanthes viridis viridis | Least Concern |
| Pellaea calomelanos (Sw.) Link | Eddst Gollociii |
| Pteris dentata Forssk. | Least Concern |
| Rumohra adiantiformis (G.Forst.) Ching | Least Concern |
| Pteridium aquilinum (L.) Kuhn | Eddot Goridoni |
| Schizaea pectinata (L.) Sw. | Least Concern |
| Blechnum attenuatum giganteum (Kaulf.) Bonap. | Loast Content |
| , , , . | |
| Blechnum punctulatum Sw. | Least Concern |
| Blechnum tabulare (Thunb.) Kuhn | Least Concern |
| Asparagus scandens Thunb. | Least Concern |
| Aristea africana (L.) Hoffmanns. | Least Concern |
| Aristea capitata (L.) Ker Gawl. | Least Concern |
| Aristea racemosa Baker | / |
| Aristea sp. | \/\tilperable (A.Set D.Leh) |
| Bobartia macrocarpa Strid | Vulnerable (A2c; B1ab) Least Concern |
| Bobartia macrospatha macrospatha Bobartia orientalis J.B.Gillett | Least Concern |
| Bobartia parva J.B.Gillett | Rare |
| Freesia sparrmannii (Thunb.) N.E.Br. | Rare |
| Geissorhiza burchellii R.C.Foster | Least Concern |
| Geissorhiza grandiflora Goldblatt | Least Concern |
| Geissorhiza inconspicua Baker | Least Concern |
| Gladiolus hirsutus Jacq. | Least Concern |
| Gladiolus rogersii Baker | Least Concern |
| Gladiolus vaginatus F. Bolus | Vulnerable (B1ab) |
| Moraea tripetala (L.f.) Ker Gawl. | Least Concern |
| Nivenia argentea Goldblatt | Least Concern |
| Tritoniopsis antholyza (Poir.) Goldblatt | Least Concern |
| Tritoniopsis caffra (Ker Gawl. ex Baker) Goldblatt | Least Concern |
| Tritoniopsis ramosa (Eckl. ex Klatt) G.J.Lewis | |
| Tritoniopsis triticea (Burm.f.) Goldblatt | Least Concern |
| Watsonia angusta Ker Gawl. | Least Concern |
| Aloe ciliaris Haw. | |
| Bulbinella nutans turfosicola (P.L.Perry) P.L.Perry | Least Concern |
| Kniphofia uvaria (L.) Oken | Least Concern |
| Corycium carnosum (Lindl.) Rolfe | Least Concern |
| Disa glandulosa Burch. ex Lindl. | Least Concern |
| Disa graminifolia Ker Gawl. ex Spreng. | Least Concern |
| Disa obliqua clavigera (Lindl.) Bytebier | Least Concern |
| Disa sagittalis (L.f.) Sw. | Least Concern |
| Disa vasselotii Bolus ex Schltr. | Least Concern |
| Disperis paludosa Harv. ex Lindl. | Least Concern |
| 2.0pt.//o paradood ridity o/ Elifali | |

| Lanaria lanata (L.) T.Durand & Schinz | Least Concern |
|--|-----------------|
| Caesia contorta (L.f.) T.Durand & Schinz | Least Concern |
| Agapanthus africanus (L.) Hoffmanns. | |
| Capeochloa arundinacea (P.J.Bergius) N.P.Barker & H.P.Linder | |
| Cymbopogon marginatus (Steud.) Stapf ex Burtt Davy | Least Concern |
| Ehrharta dura Nees ex Trin. | Least Concern |
| Ehrharta ramosa (Thunb.) Thunb. | |
| Ehrharta rupestris Nees ex Trin. | |
| Ehrharta setacea Nees | |
| Ehrharta sp. | |
| Geochloa rufa (Nees) N.P.Barker & H.P.Linder (Nees) N. P. Barker & H. P. | |
| Pentameris macrocalycina (Steud.) Schweick. | Least Concern |
| Pentaschistis acinosa Stapf | Least Concern |
| Pentaschistis colorata (Steud.) Stapf | Least Concern |
| Pentaschistis eriostoma (Nees) Stapf | Least Concern |
| Pentaschistis malouinensis (Steud.) Clayton | Least Concern |
| Tenaxia stricta (Schrad.) N.P.Barker & H.P.Linder | |
| Tribolium brachystachyum (Nees) Renvoize | Least Concern |
| Anthochortus crinalis (Mast.) H.P.Linder | Least Concern |
| Cannomois parviflora (Thunb.) Pillans | Least Concern |
| Cannomois scirpoides (Kunth) Mast. | Least Concern |
| Elegia asperiflora (Nees) Kunth | Least Concern |
| Elegia capensis (Burm.f.) Schelpe | Least Concern |
| Elegia equisetacea (Mast.) Mast. | Least Concern |
| Elegia filacea Mast. | Least Concern |
| Elegia galpinii N.E.Br. | Least Concern |
| Elegia juncea L. | Least Concern |
| Elegia mucronata (Nees) Kunth | Least Concern |
| Elegia stokoei Pillans | Least Concern |
| Hypodiscus albo-aristatus (Nees) Mast. | Least Concern |
| Hypodiscus argenteus (Thunb.) Mast. | Least Concern |
| Hypodiscus aristatus (Thunb.) C.Krauss | Least Concern |
| Hypodiscus laevigatus (Kunth) H.P.Linder | Least Concern |
| Hypodiscus striatus (Kunth) Mast. | Least Concern |
| Mastersiella purpurea (Pillans) H.P.Linder | Least Concern |
| Platycaulos acutus Esterh. | Vulnerable (D2) |
| Platycaulos anceps (Mast.) H.P.Linder | Least Concern |
| Platycaulos compressus (Rottb.) H.P.Linder | Least Concern |
| Platycaulos major (Mast.) H.P.Linder | Least Concern |
| Restio capensis (L.) H.P.Linder & C.R.Hardy | Least Concern |
| Restio decipiens (N.E.Br.) H.P.Linder | Least Concern |
| Restio filiformis Poir. | Least Concern |
| Restio fragilis Esterh. | Least Concern |
| Restio gaudichaudianus Kunth | Least Concern |
| Restio implicatus Esterh. | Critically Rare |
| Restio inconspicuus Esterh. | Least Concern |
| Restio laniger Kunth | Least Concern |
| Restio monostylis H.P.Linder & C.R.Hardy | |
| Restio ocreatus Kunth | Least Concern |
| Restio paniculatus Rottb. | Least Concern |
| Restio pedicellatus Mast. | Least Concern |
| Restio perplexus Kunth | Least Concern |
| Restio scaber Mast. | Vulnerable (D2) |
| 1.00.10 Joubol Muot. | , |



| Restio sieberi Kunth | Least Concern |
|--|--------------------------------|
| Restio stokoei Pillans | Least Concern |
| Restio strictus N.E.Br. | Least Concern |
| Rhodocoma arida H.P.Linder & Vlok | Least Concern |
| Rhodocoma fruticosa (Thunb.) H.P.Linder | Least Concern |
| Rhodocoma gigantea (Kunth) H.P.Linder | Least Concern |
| Staberoha cernua (L.f.) T.Durand & Schinz | Least Concern |
| Thamnochortus cinereus H.P.Linder | Least Concern |
| Thamnochortus insignis Mast. | Least Concern |
| Thamnochortus karooica H.P.Linder | Vulnerable (D2) |
| Willdenowia bolusii Pillans | Least Concern |
| Willdenowia glomerata (Thunb.) H.P.Linder | Least Concern |
| Willdenowia teres Thunb. | Least Concern |
| Dilatris ixioides Lam. | Least Concern |
| Wachendorfia paniculata Burm. | Least Concern |
| Capeobolus brevicaulis (C.B.Clarke) Browning | Least Concern |
| Chrysitrix capensis L. | |
| Epischoenus quadrangularis (Boeck.) C.B.Clarke | Least Concern |
| Epischoenus sp. | |
| Ficinia deusta (P.J.Bergius) Levyns | Least Concern |
| Ficinia fascicularis Nees | Least Concern |
| Ficinia filiformis (Lam.) Schrad. | Least Concern |
| Ficinia gracilis Schrad. | Least Concern |
| Ficinia laciniata (Thunb.) Nees | Least Concern |
| Ficinia macowanii C.B.Clarke | Least Concern |
| Ficinia monticola Kunth | Least Concern |
| Ficinia nigrescens (Schrad.) J.Raynal | Least Concern |
| Ficinia trichodes (Schrad.) Benth. & Hook.f. | Least Concern |
| Ficinia zeyheri Boeck. | Least Concern |
| Schoenoxiphium lanceum (Thunb.) Kük. | Least Concern |
| Tetraria brachyphylla Levyns | Least Concern |
| Tetraria bromoides (Lam.) Pfeiff. | Least Concern |
| Tetraria burmannii (Vahl.) C.B.Clarke | Least Concern |
| Tetraria capillacea (Thunb.) C.B.Clarke | Least Concern |
| Tetraria compar (L.) T.Lestib. | Least Concern |
| Tetraria crassa Levyns | Data Deficient - Taxonomically |
| | Problematic |
| Tetraria cuspidata (Rottb.) C.B.Clarke | |
| Tetraria fasciata (Rottb.) C.B.Clarke | Least Concern |
| Tetraria fimbriolata (Nees) C.B.Clarke | Least Concern |
| Tetraria flexuosa (Thunb.) C.B.Clarke | Least Concern |
| Tetraria involucrata (Rottb.) C.B.Clarke | Least Concern |
| Tetraria pillansii Levyns | Least Concern |
| Tetraria robusta (Kunth) C.B.Clarke | Least Concern |
| Tetraria thermalis (L.) C.B.Clarke | Least Concern |
| Tetraria triangularis (Boeck.) C.B.Clarke | Least Concern |
| Tetraria ustulata (L.) C.B.Clarke | Least Concern |
| Peperomia retusa (L.f.) A.Dietr. | |
| Myrica kraussiana Buchinger ex Meisn. | |
| Aulax pallasia Stapf | Near Threatened (A4c) |
| Brabejum stellatifolium L. | Least Concern |
| Hakea sericea Schrad. & J.C.Wendl. | |
| Leucadendron album (Thunb.) Fourc. | Least Concern |
| Leucadendron barkerae I.Williams | Least Concern |



| Leucadendron ericifolium R.Br. | Least Concern |
|---|-------------------------------|
| Leucadendron eucalyptifolium H.Buek ex Meisn. | Least Concern |
| Leucadendron meridianum I.Williams | Least Concern |
| Leucadendron nervosum E.Phillips & Hutch. | Near Threatened (A3d+4d) |
| Leucadendron radiatum E.Phillips & Hutch. | Endangered (B1abc+2abc) |
| Leucadendron rubrum Burm.f. | Least Concern |
| Leucadendron salicifolium (Salisb.) I.Williams | Least Concern |
| Leucadendron salignum P.J.Bergius | Least Concern |
| Leucadendron spirale (Salisb. ex Knight) I.Williams | Extinct |
| Leucadendron spissifolium spissifolium | Least Concern |
| Leucadendron tinctum I.Williams | Near Threatened (A4c) |
| Leucadendron tradouwense I.Williams | Critically Endangered (B1bc) |
| Leucospermum calligerum (Salisb. ex Knight) Rourke | Least Concern |
| Leucospermum cuneiforme (Burm.f.) Rourke | Least Concern |
| Leucospermum erubescens Rourke | Rare |
| Leucospermum mundii Meisn. | Rare |
| Leucospermum wittebergense Compton | Least Concern |
| Mimetes cucullatus (L.) R.Br. | Least Concern |
| Mimetes splendidus Salisb. ex Knight | Endangered (B1abc+2abc; C2ab) |
| Paranomus adiantifolius Salisb. ex Knight | Endangered (B1ac+2ac) |
| Paranomus candicans (Thunb.) Kuntze | Least Concern |
| Paranomus dispersus Levyns | Least Concern |
| Paranomus dregei (H.Buek ex Meisn.) Kuntze | Least Concern |
| Paranomus spathulatus N.E.Br. | Near Threatened (A3c+4c) |
| Protea acaulos (L.) Reichard | Least Concern |
| Protea aurea (Burm.f.) Rourke | |
| Protea aurea | Least Concern |
| Protea cordata Thunb. | Least Concern |
| Protea coronata Lam. | Near Threatened (A2c+3c+4c) |
| Protea cynaroides (L.) L. | Least Concern |
| Protea eximia (Salisb. ex Knight) Fourc. | Least Concern |
| Protea eximia X grandiceps | |
| Protea grandiceps Tratt. | Near Threatened (B1ac+2ac) |
| Protea humiflora Andrews | Least Concern |
| Protea lorea R.Br. | Near Threatened (D2) |
| Protea Iorifolia (Salisb. ex Knight) Fourc. | Least Concern |
| Protea magnifica Link | Least Concern |
| Protea neriifolia R.Br. | Least Concern |
| Protea neriifolia X nitida | 25001 551155111 |
| Protea nitida Mill. | Least Concern |
| Protea nitida X speciosa | |
| Protea piscina Rourke | Least Concern |
| Protea punctata Meisn. | Least Concern |
| Protea repens (L.) L. | Least Concern |
| Protea scolopendriifolia (Salisb. ex Knight) Rourke | Least Concern |
| | Least Concern |
| Protea speciosa (L.) L. Protea subulifolia (Salish ex Knight) Pourko | Least Concern |
| Protea subulifolia (Salisb. ex Knight) Rourke | |
| Serruria balanocephala Rourke | Near Threatened (A3c+4c) |
| Serruria fasciflora Salisb. ex Knight | Near Threatened (A2c+4c) |
| Spatalla colorata Meisn. | Endangered (B1ac+2ac) |
| Spatalla nubicola Rourke | Near Threatened (D2) |
| Spatalla parilis Salisb. ex Knight | Least Concern |
| Thesidium fragile (Thunb.) Sond. Thesidium microcarpum (A.DC.) A.DC. | Least Concern |
| | |



| Thesium carinatum DC. | |
|---|--|
| Thesium ericaefolium A.DC. | Least Concern |
| Thesium euphorbioides L. | Least Concern |
| Thesium subnudum Sond. | |
| Thesium virgatum Lam. | Least Concern |
| Grubbia rosmarinifolia rosmarinifolia | Vulnerable (B1ab+2ab) |
| Grubbia rosmarinifolia rosmarinifolia rosmarinifolia | Least Concern |
| Grubbia tomentosa (Thunb.) Harms | Least Concern |
| Drosera aliciae RaymHamet | Least Concern |
| Berzelia abrotanoides (L.) Brongn. | Least Concern |
| Berzelia burchellii Dummer | Vulnerable (B1ab) |
| Berzelia intermedia (D.Dietr.) Schltdl. | Least Concern |
| Brunia alopecuroides Thunb. | Least Concern |
| Brunia neglecta Schltr. | Least Concern |
| Brunia noduliflora Goldblatt & J.C.Manning | Least Concern |
| Linconia alopecuroidea L. | Endangered (D) |
| Mniothamnea callunoides (Oliv.) Nied. | Vulnerable (D2) |
| Raspalia variabilis Pillans | Least Concern |
| Raspalia virgata (Brongn.) Pillans | Least Concern |
| Cliffortia alata N.E.Br. | Vulnerable (D2) |
| Cliffortia atrata Weim. | Least Concern |
| Cliffortia discolor Weim. | Data Deficient - Taxonomically Problematic |
| Cliffortia ferruginea L.f. | Least Concern |
| Cliffortia pulchella L.f. | |
| Cliffortia sericea Eckl. & Zeyh. | Least Concern |
| Cliffortia serpyllifolia Cham. & Schltdl. | Least Concern |
| Cliffortia strobilifera L. | Least Concern |
| Cliffortia tuberculata (Harv.) Weim. | |
| Phylica axillaris Lam. | |
| Phylica axillaris microphylla (Eckl. & Zeyh.) Pillans | Least Concern |
| Phylica ericoides L. | |
| Phylica mairei Pillans | Rare |
| Phylica pinea Thunb. | Least Concern |
| Pelargonium cordifolium (Cav.) Curtis | Least Concern |
| Pelargonium fruticosum (Cav.) Willd. | Least Concern |
| Pelargonium myrrhifolium (L.) L'Hér. | |
| Pelargonium ovalifolium (Sweet) DC. | |
| Pelargonium tomentosum Jacq. | Least Concern |
| Pelargonium tricolor Curtis | Least Concern |
| Laurophyllus capensis Thunb. | Least Concern |
| Searsia lucens (Hutch.) Moffett | |
| Cassine schinoides (Spreng.) R.H.Archer | Least Concern |
| Maytenus acuminata (L.f.) Loes. | |
| Pterocelastrus rostratus (Thunb.) Walp. | Declining |
| Acmadenia nivea I.Williams | Vulnerable (D2) |



| Mammals | | | - | - | - | |
|---------------------------|--------------------------|------------------------------|----------------------|--------------------|-------------|-------------|
| TaxonName | EnglishName | AfrikaansName | IUCN_Name | RDB_Name | CITES | Ordinance |
| Nycteris thebaica | Egyptian slit-faced bat | Egiptiese spleetneusvlermuis | Least Concern | Least Concern | | Schedule II |
| Rhinolophus clivosus | Geoffroy's horseshoe bat | Geoffroy-saalneusvlermuis | Least Concern | Near Threatened | | Schedule II |
| Cercopithecus pygerythrus | vervet monkey | blouaap | | | | |
| Papio hamadryas | Chacma baboon | Kaapse bobbejaan | Least Concern | Least Concern | Appendix II | |
| Lepus capensis | Cape hare | Vlakhaas | Least Concern | Least Concern | | |
| Lepus saxatilis | Scrub hare | Kolhaas | Least Concern | Least Concern | | |
| Cryptomys hottentotus | Common molerat | Knaagdiermol | Least Concern | Least Concern | | |
| Acomys subspinosus | Cape spiny mouse | Kaapse stekelmuis | Least Concern | Least Concern | / | |
| Dendromus mesomelas | Brants' climbing mouse | Brants-klimmuis | Least Concern | Least Concern | | |
| Mus minutoides | Pygmy mouse | Dwergmuis | Least Concern | Least Concern | | |
| Myomyscus verreauxii | Verreaux's mouse | Verreaux-muis | Least Concern | Least Concern | | |
| Otomys irroratus | Vlei rat | Vleirot | Least Concern | Least Concern | | |
| Otomys laminatus | Laminate vlei rat | Bergyleirot | Least Concern | Least Concern | | |
| Otomys unisulcatus | Bush vlei rat | Boskaroorot | Least Concern | Least Concern | | |
| Parotomys brantsii | Brants's whistling rat | Brants-fluitrot | Least Concern | Least Concern | | |
| Rhabdomys pumilio | Striped mouse | Streepmuis | Least Concern | Least Concern | | |
| Panthera pardus | Leopard | Luiperd | Near Threatened | Least Concern | Appendix II | Schedule II |
| Canis mesomelas | Black-backed jackal | Rooijakkals | Least Concern | Least Concern | | |
| Genetta genetta | Small-spotted genet | Kleinkolmuskejaatkat | Least Concern | Least Concern | | |
| Genetta tigrina | Large-spotted genet | Grootkolmuskejaatkat | Least Concern | Least Concern | | |
| Cynictis penicillata | Yellow mongoose | Witkwasmuishond | Least Concern | Least Concern | | |
| Procavia capensis | Rock dassie | Klipdassie | Least Concern | Least Concern | | |
| Oreotragus oreotragus | Klipspringer | Klipspringer | Least Concern | Least Concern | | Schedule II |
| Pelea capreolus | Grey rhebuck | Vaalribbok | Least Concern | Least Concern | | Schedule II |
| Raphicerus melanotis | Grysbok | Grysbok / | Least Concern | Least Concern | | Schedule II |
| Tragelaphus scriptus | Bushbuck | Bosbok | Least Concern | Least Concern | | Schedule II |
| Potamochoerus larvatus | bushpig | | Least Concern | | | |
| Amblysomus corriae | Fynbos golden mole | Fynbosgouemol | Near Threatened | Near Threatened | | |
| Chrysochloris asiatica | Cape golden mole | Kaapse gouemol | Least Concern | Data Deficient | | |
| Crocidura cyanea | Reddish-grey musk shrew | Rooigrysskeerbek | Least Concern | Data Deficient | | Schedule II |
| Crocidura flavescens | Greater red musk shrew | Groter skeerbek | Least Concern | Data Deficient | | Schedule II |
| Myosorex cafer | Dark-footed forest shrew | Donkerpoot-bosskeerbek | Least Concern | Data Deficient | | |
| Myosorex longicaudatus | Long-tailed forest shrew | Langstert-bosskeerbek | Vulnerable (B1ab) | Near Threatened | | Schedule II |
| Myosorex varius | Forest shrew | Bosskeerbek | Least Concern | Data Deficient | | Schedule II |

| Suncus varilla | Lesser dwarf shrew | Kleiner dwergskeerbek | Least Concern | Data Deficient | Schedule II |
|--------------------------|---------------------|-----------------------|---------------|----------------|-------------|
| Canis mesomelas | Black-backed jackal | Rooijakkals | Least Concern | Least Concern | |
| Ictonyx striatus | Striped polecat | Stinkmuishond | Least Concern | Least Concern | |
| Galerella pulverulenta | Cape grey mongoose | Kleingrysmuishond | Least Concern | Least Concern | |
| Antidorcas marsupialis | Springbuck | Springbok | Least Concern | Least Concern | Schedule II |
| Pelea capreolus | Grey rhebuck | Vaalribbok | Least Concern | Least Concern | Schedule II |
| Raphicerus campestris | Steenbok | Steenbok | Least Concern | Least Concern | Schedule II |
| Raphicerus melanotis | Grysbok | Grysbok | Least Concern | Least Concern | Schedule II |
| Sylvicapra grimmia | Common duiker | Gewone duiker | Least Concern | Least Concern | Schedule II |
| Taphozous mauritianus | Mauritian tomb bat | Witlyfvlermuis | Least Concern | Least Concern | Schedule II |
| Hystrix africaeaustralis | Porcupine | Ystervark | Least Concern | Least Concern | |
| Myomyscus verreauxii | Verreaux's mouse | Verreaux-muis | Least Concern | Least Concern | |
| Pelea capreolus | Grey rhebuck | Vaalribbok | Least Concern | Least Concern | Schedule II |
| Raphicerus melanotis | Grysbok | Grysbok | Least Concern | Least Concern | Schedule II |
| Sylvicapra grimmia | Common duiker | Gewone duiker | Least Concern | Least Concern | Schedule II |



Avifauna (Birds)

| TaxonName | EnglishName | AfrikaansName | IUCN_Name |
|--------------------------|--|-----------------------------------|-------------------------------|
| Phalacrocorax africanus | Reed Cormorant | Rietduiker | Least Concern |
| Anhinga rufa | African Darter | Slanghalsvoël | Least Concern |
| Bostrychia hagedash | Hadeda Ibis | Hadeda | Least Concern |
| Platalea alba | African Spoonbill | Lepelaar | Least Concern |
| Threskiornis aethiopicus | African Sacred Ibis | Skoorsteenveër | Least Concern |
| Ardea cinerea | Grey Heron | Bloureier | Least Concern |
| Ardea melanocephala | Black-headed Heron | Swartkopreier | Least Concern |
| Bubulcus ibis | Cattle Egret | Veereier | Least Concern |
| Scopus umbretta | Hamerkop | Hamerkop | Least Concern |
| Ciconia ciconia | White Stork | Witooievaar | Least Concern |
| Ciconia nigra | Black Stork | Grootswartooievaar | Least Concern |
| Alopochen aegyptiaca | Egyptian Goose | Kolgans | Least Concern |
| Anas sparsa | African Black Duck | Swarteend | Least Concern |
| Anas undulata | Yellow-billed Duck | Geelbekeend | Least Concern |
| Plectropterus gambensis | Spur-winged Goose | Wildemakou | Least Concern |
| Fadorna cana | South African Shelduck | Kopereend | Least Concern |
| Falco biarmicus | Lanner Falcon | Edelvalk | Least Concern |
| | | | , |
| Falco naumanni | Lesser Kestrel | Kleinrooivalk | Vulnerable (A2bce+3bce) |
| Falco peregrinus | Peregrine Falcon | Swerfvalk | Least Concern |
| Falco rupicolus | Rock Kestrel | Rooivalk | Least Concern |
| - alco subbuteo | Eurasian Hobby | Europese Boomvalk | Least Concern |
| Accipiter melanoleucus | Black Sparrowhawk | Swart Sperwer | Least Concern |
| Accipiter minullus | Little Sparrowhawk | Kleinsperwer | Least Concern |
| Accipiter rufiventris | Rufous-chested Sparrowhawk | Rooiborssperwer | Least Concern |
| Accipiter tachiro | African Goshawk | Afrikaanse Sperwer | Least Concern |
| Aquila pennatus | Booted Eagle | Dwergarend | Least Concern |
| Aquila verreauxii | Verreaux's Eagle | Witkruisarend | Least Concern |
| Suteo rufofuscus | Jackal Buzzard | Rooborsjakkalsvoël | Least Concern |
| Buteo trizonatus | Forest Buzzard | Bosjakkalsvoël | Least Concern |
| Buteo vulpinus | Steppe Buzzard | Bruinjakkelsvoël | Least Concern |
| · | Black Harrier | <u> </u> | |
| Circus maurus | | Witkruispaddavreter | Vulnerable (D1) Least Concern |
| Circus ranivorus | African Marsh-Harrier | Afrikaanse Paddavreter | |
| Elanus caeruleus | Black-shouldered Kite | Blouvalk | Least Concern |
| Gyps coprotheres | Cape Vulture | Kransaasvoël | Vulnerable (C1+2a) |
| Haliaeetus vocifer | African Fish-Eagle | Visarend | Least Concern |
| Melierax canorus | Southern Pale Chanting Goshawk | Bleeksingvalk | Least Concern |
| Polemaetus bellicosus | Martial Eagle | Breëkoparend | Near Threatened |
| Polyboroides typus | / African Harrier-Hawk | Kaalwangvalk | Least Concern |
| Stephanoaetus coronatus | African Crowned Eagle | Kroonarend | Least Concern |
| Sagittarius serpentarius | Secretary Bird | Sekretarisvoël | Vulnerable (A4acd) |
| Coturnix coturnix | • | | Least Concern |
| | Common Quail | Afrikaanse Kwartel Rooikeelfisant | Least Concern |
| Pternistis afer | Red-necked Spurfowl | | _ |
| Pternistis capensis | Cape Spurfowl | Kaapse Fisant | Least Concern |
| Scleroptila africanus | Grey-winged Francolin | Bergpatrys | Least Concern |
| Scleroptila levaillantii | Red-winged Francolin | Rooivlerkpatrys | Least Concern |
| Numida meleagris | Helmeted Guineafowl | Gewone Tarentaal | Least Concern |
| Afrotis afra | Southern Black Korhaan | Swartkorhaan | Least Concern |
| Eupodotis vigorsii | Karoo Korhaan | Vaalkorhaan | Least Concern |
| Neotis denhami | Denham's Bustard | Veldpou | Near Threatened |
| Anthropoides paradiseus | Blue Crane | Bloukraanvoël | Vulnerable (A2acde) |
| Amaurornis flavirostra | Black Crake | Swartriethaan | Least Concern |
| Fulica cristata | Red-knobbed Coot | Bleshoender | Least Concern |
| Gallinula chloropus | Common Moorhen | Waterhoender | Least Concern |
| Sarothrura affinis | Striped Flufftail | Gestreepte Vleikuiken | Least Concern |
| · · · · | Later and the second se | | |

| Sarothrura rufa | Red-chested Flufftail | Rooiborsvleikuiken | Least Concern |
|----------------------------|---------------------------|-------------------------------|-------------------------------|
| Burhinus capensis | Spotted Thick-knee | Dikkop | Least Concern |
| Actitis hypoleucos | Common Sandpiper | Gewone Ruiter | Least Concern |
| Tringa nebularia | Common Greenshank | Groenpootruiter | Least Concern |
| Charadrius tricollaris | Three-banded Plover | Driebandstrandkiewiet | Least Concern |
| Vanellus armatus | Blacksmith Lapwing | Bontkiewiet | Least Concern |
| Vanellus coronatus | Crowned Lapwing | Kroonkiewiet | Least Concern |
| | | | Least Concern |
| Pterocles namaqua | Namaqua Sandgrouse | Kelkiewyn | |
| Aplopelia larvata | Lemon Dove | Kaneelduifie | Least Concern |
| Columba arquatrix | African Olive-pigeon | Geelbekbosduif | Least Concern |
| Columba guinea | Speckled Pigeon | Kransduif | Least Concern |
| Columba livia | Rock Dove | Tuinduif | 1 10 |
| Oena capensis | Namaqua Dove | Namakwaduifie | Least Concern |
| Streptopelia capicola | Cape Turtle-dove | Gewone Tortelduif | Least Concern |
| Streptopelia semitorquata | Red-eyed Dove | Grootringduif | Least Concern |
| Streptopelia senegalensis | Laughing Dove | Rooiborsduif | Least Concern |
| Turtur tympanistria | Tambourine Dove | Witborsduifie | Least Concern |
| Chrysococcyx caprius | Diderick Cuckoo | Diederikkie | Least Concern |
| Chrysococcyx cupreus | African Emerald Cuckoo | Mooimeisie | Least Concern |
| Chrysococcyx klaas | Klaas's Cuckoo | Meitjie | Least Concern |
| Clamator jacobinus | Jacobin Cuckoo | Bontnuwejaarsvoël | Least Concern |
| Cuculus clamosus | Black Cuckoo | Swartkoekoek | Least Concern |
| Cuculus solitarius | Red-chested Cuckoo | Piet-my-vrou | Least Concern |
| Centropus burchellii | Burchell's Coucal | Gewone Vleiloerie | |
| Bubo africanus | Spotted Eagle-owl | Gevlekte Ooruil | Least Concern |
| Bubo capensis | Cape Eagle-owl | Kaapse Ooruil | Least Concern |
| Strix woodfordii | African Wood-owl | Bosuil | Least Concern |
| Tyto alba | Barn Owl | Nonnetjie-uil | Least Concern |
| Caprimulgus pectoralis | Fiery-necked Nightjar | Afrikaanse Naguil | Least Concern |
| Caprimulgus rufigena | Rufous-cheecked Nightjar | Rooiwangnaguil | Least Concern |
| Apus affinis | Little Swift | Kleinwindswael | Least Concern |
| Apus barbatus | African Black Swift | Swartwindswael | Least Concern |
| Apus caffer | White-rumped Swift | Witkruiswindswael | Least Concern |
| Apus horus | Horus Swift | Horuswindswael | Least Concern |
| Tachymarptis melba | Alpine Swift | Witpenswindswael | Least Concern |
| Colius colius | White-backed Mousebird | Witkruismuisvoël | Least Concern |
| Colius striatus | Speckled Mousebird | Gevlekte Muisvoël | Least Concern |
| Urocolius indicus | Red-faced Mousebird | | Least Concern |
| | | Rooiwangmuisvoël Bosloerie | Least Concern |
| Apaloderma narina | Narina Trogon | | Least Concern |
| Merops apiaster | European Bee-eater | Europese Byvreter | Least Concern |
| Alcedo cristata | Malachite Kingfisher | Kuifkopvisvanger | |
| Alcedo semitorquata | Half-collared Kingfisher | Blouvisvanger | Least Concern Near Threatened |
| Coracias garrulus | European Roller | Europese Troupant | |
| Ceryle rudis | Pied Kingfisher | Bontvisvanger | Least Concern Least Concern |
| Megaceryle maxima | Giant Kingfisher | Reuse Visvanger | |
| Halcyon albiventris | Brown-hooded Kingfisher | Bruinkopvisvanger | Least Concern |
| Tricholaema leucomelas | Acacia Pied Barbet | Bonthoutkapper | Least Concern |
| Indicator indicator | Greater Honeyguide | Grootheuningwyser | Least Concern |
| Indicator minor | Lesser Honeyguide | Kleinheuningwyser | Least Concern |
| Indicator variegatus | Scaly-throated Honeyguide | Gevlekte Heuningwyser | Least Concern |
| Campethera notata | Knysna Woodpecker | Knysnaspeg | Near Threatened |
| Dendropicos fuscescens | Cardinal Woodpecker | Kardinaalspeg | Least Concern |
| Dendropicos griseocephalus | Olive Woodpecker | Gryskopspeg | Least Concern |
| Geocolaptes olivaceus | Ground Woodpecker | Grondspeg | Least Concern |
| | Ground Woodpecker | Orondopog | |
| Andropadus importunus | Sombre Greenbul | Gewone Willie | Least Concern |



| Pycnonotus capensis | Cape Bulbul | Kaapse Tiptol | Least Concern |
|---|----------------------------------|----------------------------|------------------------|
| Acrocephalus baeticatus | African Reed-Warbler | Kleinrietsanger | |
| Acrocephalus gracilirostris | Lesser Swamp Warbler | Kaapse Rietsanger | Least Concern |
| Bradypterus baboecala | Little Rush-Warbler | Kaapse Vleisanger | Least Concern |
| Bradypterus sylvaticus | Knysna Warbler | Knysnaruigtesanger | Vulnerable (B1ab; C2a) |
| Cryptillas victorini | Victorin's Warbler | Rooiborsruigtesanger | Least Concern |
| Parisoma layardi | Layard's Tit-Babbler | Grystjeritik | Least Concern |
| Parisoma subcaeruleum | Chestnut-vented Tit-Babbler | Bosveldtjeriktik | Least Concern |
| | Willow Warbler | | Least Concern |
| Phylloscopus trochilus Sphenoeacus afer | Cape Grassbird | Hofsanger Grasvoël | Least Concern |
| | | | |
| Sylvietta rufescens | Long-billed Crombec | Bosveldstompstert | Least Concern |
| Anthus cinnamomeus | African Pipit | Gewone Koester | Least Concern |
| Anthus crenatus | African Rock Pipit | Klipkoester | Least Concern |
| Anthus leucophrys | Plain-backed Pipit | Donkerkoester | Least Concern |
| Anthus similis | Long-billed Pipit | Nicholsonse Koester | Least Concern |
| Macronyx capensis | Cape Longclaw | Oranjekeelkalkoentjie | Least Concern |
| Motacilla capensis | Cape Wagtail | Gewone Kwikkie | Least Concern |
| Batis capensis | Cape Batis | Kaapse Bosbontrokkie | Least Concern |
| Laniarius ferrugineus | Southern Boubou | Suidelike Waterfiskaal | Least Concern |
| Telophorus olivaceus | Olive Bush-Shrike | Olyfboslaksman | Least Concern |
| Telophorus zeylonus | Bokmakierie | Bokmakierie | Least Concern |
| Creatophora cinerea | Wattled Starling | Lelspreeu | Least Concern |
| Onychognathus morio | Red-winged Starling | Rooivlerkspreeu | Least Concern |
| Spreo bicolor | Pied Starling | Witgatspreeu | Least Concern |
| Sturnus vulgaris | Common Starling | Europese Spreeu | |
| Cercomela familiaris | Familiar Chat | Gewone Spekvreter | Least Concern |
| Cercomela schlegelii | Karoo Chat | Karoospekvreter | Least Concern |
| Cercotrichas coryphaeus | Karoo Scrub-Robin | Slangverklikker | Least Concern |
| Cossypha caffra | Cape Robin-Chat | Gewone Janfrederik | Least Concern |
| Monticola explorator | Sentinel Rock-Thrush | Langtoonkliplyster | Least Concern |
| Monticola rupestris | Cape Rock-Thrush | Kaapse Kliplyster | Least Concern |
| Muscicapa adusta | African Dusky Flycatcher | Donkervlieëvanger | Least Concern |
| Muscicapa striata | Spotted Flycatcher | Europese Vlieëvanger | Least Concern |
| Saxicola torquatus | African Stonechat | Gewone Bontrokkie | Least Concern |
| Sigelus silens | Fiscal Flycatcher | Fiskaalvlieëvanger | Least Concern |
| Turdus olivaceus | Olive Thrush | Olyflyster | Least Concern |
| Promerops cafer | Cape Sugarbird | Kaapse Suikervoël | Least Concern |
| Anthobaphes violacea | Orange-breasted Sunbird | Oranjeborssuikerbekkie | Least Concern |
| Chalcomitra amethystina | Amethyst Sunbird | Swartsuikerbekkie | Least Concern |
| Cinnyris afer | Greater Double-collared Sunbird | Groot-rooibandsuikerbekkie | Least Concern |
| Cinnyris chalybeus | Southern Double-collared Sunbird | Klein-rooibandsuikerbekkie | Least Concern |
| • | | | |
| Nectarinia famosa | Malachite Sunbird | Jangroentjie | Least Concern |
| Zosterops virens | Cape White-eye | Kaapse Glasogie | Land Carrier |
| Euplectes capensis | Yellow Bishop | Kaapse Flap | Least Concern |
| Euplectes orix | Southern Red Bishop | Rooivink | Least Concern |
| Ploceus capensis | Cape Weaver | Kaapse Wewer | Least Concern |
| Ploceus velatus | Southern Masked-Weaver | Swartkeelgeelvink | Least Concern |
| Coccopygia melanotis | Swee Waxbill | Suidelike Swie | Least Concern |
| Estrilda astrild | Common Waxbill | Rooibeksysie | Least Concern |
| Ortygospiza atricollis | African Quailfinch | Gewone Kwartelvinkie | Least Concern |
| Vidua macroura | Pin-tailed Whydah | Koningrooibekkie | Least Concern |
| Crithagra albogularis | White-throated Canary | Witkeelkanarie | Least Concern |
| Crithagra flaviventris | Yellow Canary | Geelkanarie | Least Concern |
| Crithagra gularis | Streaky-headed Seedeater | Streepkopkanarie | Least Concern |
| Crithagra scotops | Forest Canary | Gestreepte Kanarie | Least Concern |
| Crithagra sulphuratus | Brimstone Canary | Dikbekkanarie | Least Concern |



| Crithagra totta | Cape Siskin | Kaapse Pietjiekanarie | Least Concern |
|--------------------------|----------------------------------|----------------------------|-------------------------------|
| Emberiza capensis | Cape Bunting | Rooivlerkstreepkoppie | Least Concern |
| Emberiza impetuani | Lark-like Bunting | Vaalstreepkoppie | Least Concern |
| Serinus canicollis | Cape Canary | Kaapse Kanarie | Least Concern |
| Galerida magnirostris | Large-billed Lark | Dikbeklewerik | Least Concern |
| Mirafra apiata | Cape Clapper Lark | Kaapseklappertjie | Least Concern |
| Lanius collaris | Common Fiscal | Fiskaallaksman | Least Concern |
| Delichon urbicum | Common House-Martin | Huisswael | Least Concern |
| Hirundo albigularis | White-throated Swallow | Witkeelswael | Least Concern |
| Hirundo cucullata | Greater Striped Swallow | Grootstreepswael | Least Concern |
| Hirundo dimidiata | Pearl-breasted Swallow | Pêrelborsswael | Least Concern |
| Hirundo fuligula | Rock Martin | Kransswael | Least Concern |
| Hirundo rustica | Barn Swallow | Europese Swael | Least Concern |
| Psalidoprocne holomelas | Black Saw-wing | Swartsaagvlerkswael | Least Concern |
| Riparia cincta | Banded Martin | Gebande Oewerswael | Least Concern |
| Riparia paludicola | Brown-throated Martin | Afrikaanse Oewerswael | Least Concern |
| Coracina caesia | Grey Cuckooshrike | Bloukatakoeroe | Least Concern |
| Dicrurus adsimilis | Fork-tailed Drongo | Mikstertbyvanger | Least Concern |
| Oriolus larvatus | Black-headed Oriole | Swartkopwielewaal | Least Concern |
| Corvus albicollis | White-necked Raven | Withalskraai | Least Concern |
| Corvus albus | Pied Crow | Witborskraai | Least Concern |
| Corvus capensis | Black Crow | Swartkraai | Least Concern |
| Anthoscopus minutus | Cape Penduline-Tit | Kaapse Kapokvoël | Least Concern |
| Parus afer | Grey Tit | Piet-tjou-tjou-grysmees | Least Concern |
| Terpsiphone viridis | African Paradise-Flycatcher | Paradysvlieëvanger | Least Concern |
| Trochocercus cyanomelas | Blue-mantled Crested Flycatcher | Bloukuifvlieëvanger | Least Concern |
| Passer domesticus | House Sparrow | Huismossie | |
| Passer melanurus | Cape Sparrow | Gewone Mossie | Least Concern |
| Apalis thoracica | Bar-throated Apalis | Bandkeelkleinjantjie | Least Concern |
| Cisticola fulvicapilla | Neddicky | Neddikkie | Least Concern |
| Cisticola juncidis | Zitting Cisticola | Landeryklopkloppie | Least Concern |
| Cisticola subruficapilla | Grey-backed Cisticola | Grysrugtinktinkie | Least Concern |
| Cisticola textrix | Cloud Cisticola | Gevlekte Klopkloppie | Least Concern |
| Cisticola tinniens | Levaillant's Cisticola | Vleitinktinkie | Least Concern |
| Malcorus pectoralis | Rufous-eared Warbler | Rooioorlangstertjie | Least Concern |
| Phragmacia substriata | Namaqua Warbler | Namakwalangstertjie | Least Concern |
| Prinia maculosa | Karoo Prinia | Karoolangstertjie | Least Concern |
| Chaetops frenatus | Cape Rock-jumper | Kaapse Berglyster | Least Concern |
| Upupa africana | African Hoopoe | Hoephoep | Least Concern |
| Buteo rufofuscus | Jackal Buzzard | Rooborsjakkalsvoël | Least Concern |
| Falco naumanni | Lesser Kestrel | Kleinrooivalk | Vulnerable |
| Buteo rufofuscus | Jackal Buzzard | Rooborsjakkalsvoël | (A2bce+3bce) Least Concern |
| Polemaetus bellicosus | Martial Eagle | Breëkoparend | Near Threatened |
| Sterna paradisaea | Arctic Tern | Arktiese Seeswael | Least Concern |
| Saxicola torquatus | African Stonechat | Gewone Bontrokkie | Least Concern |
| Cinnyris chalybeus | Southern Double-collared Sunbird | Klein-rooibandsuikerbekkie | Least Concern |
| Mirafra apiata | Cape Clapper Lark | Kaapseklappertjie | Least Concern |
| Lanius collaris | Common Fiscal | Fiskaallaksman | Least Concern |
| Dicrurus adsimilis | Fork-tailed Drongo | Mikstertbyvanger | Least Concern |
| Apalis thoracica | Bar-throated Apalis | Bandkeelkleinjantjie | Least Concern |
| Upupa africana | African Hoopoe | Hoephoep | Least Concern |
| | ,ball 1100p00 | | |



Herpfuana (Reptiles)

| TaxonName | EnglishName | AfrikaansName | RDB_Name |
|--|---|--|--------------------------------|
| Agama atra | southern rock agama | suidelike rotskoggelmander | Least Concern |
| Agama atra atra Daudin | southern rock agama | suidelike rotskoggelmander | Least Concern |
| Bradypodion gutturale | Robertson dwarf chameleon | Robertson-dwergverkleurmannetjie | Least Concern |
| Dispholidus typus typus | boomslang | boomslang | Least Concern |
| Duberria lutrix lutrix | common slug eater | gewone slakvreter | Least Concern |
| Cordylus cordylus | Cape girdled lizard | Kaapse gordelakkedis | Least Concern |
| Hemicordylus capensis | graceful crag lizard | grasieuse kransakkedis | Least Concern |
| Ninurta coeruleopunctatus Pseudocordylus microlepidotus microlepidotus | blue-spotted girdled lizard Cape crag lizard | bloukolgordelakkedis | Least Concern Least Concern |
| Hemachatus haemachatus | Rinkhals | Rinkhals | Least Concern |
| Naja nivea | Cape cobra | Kaapse kobra | Least Concern |
| Afrogecko porphyreus | marbled leaf-toed gecko | marmer blaartoongeitjie | Least Concern |
| Chondrodactylus bibronii | Bibron's gecko | Bibron geitjie | Least Concern |
| Goggia lineata | striped leaf-toed gecko | gestreepte blaartoongeitjie | Least Concern |
| Tetradactylus seps | short-legged seps | | Least Concern |
| Pedioplanis burchelli | Burchell's sand lizard | Burchell sand akkedis | Least Concern |
| Pedioplanis lineoocellata pulchella | spotted sand lizard | | Least Concern |
| Tropidosaura gularis | Cape mountain lizard | Kaapse bergakkedis | Least Concern |
| Tropidosaura montana montana | common mountain lizard | | Least Concern |
| Leptotyphlops nigricans | black thread snake | swartdraadslang | Least Concern |
| Trachylepis homalocephala | red-sided skink | rooi-sy skink | Least Concern |
| Trachylepis sulcata | western rock skink | Westelike rots skink | Least Concern |
| Bitis arietans arietans | puff adder | pofadder | Least Concern |
| Bitis atropos | berg adder | bergadder | Least Concern |
| Lycodonomorphus rufulus | common brown water snake | bruin waterslang | Least Concern |
| Psammophis notostictus Hemicordylus capensis | Karoo Whip Snake graceful crag lizard | karoo sweepslang grasieuse kransakkedis | Least Concern Least Concern |
| Ninurta coeruleopunctatus | blue-spotted girdled lizard | bloukolgordelakkedis | Least Concern |
| Lamprophis inornatus | olive house snake | olyfkleurige huisslang | |
| Dasypeltis scabra | common egg eater | gewone eiervreter | Least Concern |
| Afrogecko porphyreus | marbled leaf-toed gecko | marmer blaartoongeitjie | Least Concern |



Amphibians

| TaxonName | EnglishName | AfrikaansName | IUCN_Name | RDB_Name | Ordinance |
|--|-------------------------|----------------------------|---------------|---------------|-------------|
| Amietophrynus rangeri (Hewitt, 1935) | raucous toad | heespadda | | | Schedule II |
| Capensibufo tradouwi (Hewitt, 1926) | Tradouw mountain toad | Tradouw-bergskurwepadda | | | Schedule II |
| Vandijkophrynus gariepensis gariepensis | Karoo toad | Karoo-skurwepadda | | | |
| Heleophryne orientalis FitzSimons, 1946 | eastern ghost frog | oostlike spookpadda | | | |
| Hyperolius marmoratus Rapp, 1842 | painted reed frog | geskilderde rietpadda | | | Schedule II |
| Semnodactylus wealii (Boulenger, 1882) | rattling frog | ratelpadda | | / | Schedule II |
| Xenopus laevis laevis | common platanna | gewone platanna | | | |
| Amietia fuscigula (Duméril and Bibron, 1841) | Cape river frog | Kaapse rivierpadda | | | Schedule II |
| Amietia vandijki (Visser and Channing, 1997) | van Dijk's river frog | van Dijk se rivierpadda | Least Concern | Least Concern | Schedule II |
| Cacosternum boettgeri (Boulenger, 1882) | common caco | gewone blikslanertjie | / | | Schedule II |
| Cacosternum nanum Boulenger, 1887 | bronze caco | bronskleurblikslanertjie | | | Schedule II |
| Strongylopus bonaespei (Dubois, 1980) | banded stream frog | bandgestreepte stroompadda | | | Schedule II |
| Strongylopus fasciatus (Smith, 1849) | striped stream frog | gestreepte stroompadda | | | Schedule II |
| Strongylopus grayii (Smith, 1849) | clicking stream frog | kliekpadda | | | Schedule II |
| Breviceps acutirostris Poynton, 1963 | strawberry rain frog | rooirugreenpadda | | | Schedule II |
| Breviceps fuscus Hewitt, 1925 | plain rain frog | gewone reenpadda | | | Schedule II |
| Semnodactylus wealii (Boulenger, 1882) | rattling frog | ratelpadda | | | Schedule II |
| Amietia fuscigula (Duméril and Bibron, 1841) | Cape river frog | Kaapse rivierpadda | | | Schedule II |
| Breviceps montanus Power, 1926 | Cape mountain rain frog | Kaapse bergreenpadda | | | Schedule II |