

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

30th November 2010



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to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

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BIODIVERSITY ASSESSMENT REPORT

in the Upper uThukela (Mnweni and amaZizi) Wilderness Areas, Tugela Municipality, KZN

1 INTRODUCTION

Ezemvelo KZN Wildlife are the custodians of the KZN Biodiversity Stewardship Programme (KZN BSP) and are driving an aggressive campaign to secure Biodiversity Stewardship Agreements with land owners and communities on land indicated as priority in the Provincial Terrestrial Systematic Conservation Plan. One such area is the Upper uThukela Wilderness Areas which represents a gap between Cathedral Peak and the Royal Natal National Park sections of the uKhahlamba Drakensberg Park World Heritage Site (UDP WHS). It has long been the vision of many, including local people in the valley, to see this area proclaimed as a Community Conservation Area and included in the World Heritage Site. Numerous interest groups have worked with willing community representatives and groupings to undertake a variety of resource management projects in the valley, some of which have been in existence for more than 10 years. Currently this situation persists with a significant amount of funding being attached to these projects.

Recently a meeting was convened with most of the interested parties to discuss the possibility of synergising the efforts discussed above and the KZN BSP Coordinator suggested that the Programme could be used as a mechanism to bring about this synergy. The programme's requirement for a management plan and an agreement may act as the catalyst needed to bring the role players together, while the agreement and proclamation will serve to leverage benefits that have long been spoken of.

The KZN BSP has appointed Mxolisi Fulumente as a full-time facilitator for this initiative and he is based at Royal Natal National Park from where he has begun to build relationships with the relevant community structures. The programme now wishes to appoint a Professional Service Provider (PSP) to assist Mxolisi with the processes required to secure a Stewardship Agreement for the valley. They have secured funding through the Climate Action Partnership which is being held by the Wildlands Conservation Trust and have appointed Zunckel Ecological + Environmental Services to provide this service on behalf of the KZN BSP. This report represents the first milestone in the Stewardship process.

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2 TERMS OF REFERENCE

A site assessment is conducted to determine the biodiversity value of each proposed stewardship site. The site assessment consists of two components: a Desktop Assessment and a Field Assessment. The Desktop Assessment involves an analysis of spatial information from the Bioregional Conservation Plan, provincial database and other sources (e.g. aerial photography, etc.). The Field Assessment is a ground-truthing exercise that involves verification of the results of the Desktop Assessment and capturing of any new information.

The overall objectives of the Biodiversity Assessment are to:

- 1. Determine the biodiversity value of the proposed stewardship area
- 2. Determine land-use pressures and threats to the proposed stewardship area
- 3. Determine whether the proposed stewardship area warrants incorporation into the Biodiversity Stewardship Programme
- 4. Establish the preferred stewardship category
- 5. Begin the process of developing a management plan for the proposed stewardship area
- 6. Establish a baseline for evaluation of management effectiveness

The team involved in the Field Assessment normally consists of the Stewardship Facilitator, other relevant conservation agency staff, such as ecologists, District Conservation Officer, DoA staff, the landowner and any additional specialists, which may include NGOs. In this case, where a plethora of biodiversity information already exists on the area and the project area is well known to the stewardship assessors from previous hikes, a one-day field assessment was undertaken by Kevan Zunckel, Mxolisi Fulumente and a local amaZizi guide, Petros Ngwane, within the Busingata Valley on the 28th November 2010 and many of the desktop findings were confirmed.

The KZN Biodiversity Stewardship Programme Biodiversity Site Assessment is presented below.

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

PART 1: PROPERTY AND CONTACT INFORMATION

Region and Conservation District

Date

Kevan & Karen Zunckel		uKhahlamba Region			30 November 2010	
Zunckel Ecologica	al + Environmental Services	Ladysmith Conservatio	Ladysmith Conservation District		30 November 2010	
Property	Property Upper Tugela Location No. 4794 Portions 2 and 3		Size	44,5	36.3433 Ha = Cadastra 25.281626 Ha = Proposed Wilderness ndary	
Surveyor-general Cadastral Code 21 digit site (erf/farm/portion) reference	N0GS0000000479400002 & N0GS00000000479400003					
Location	amaZizi Tribal Authority		amaNgw	ane T	ribal Authority	
Municipality	Okhahlamba Local Municipalit	ty(KZN 235)				
Landowner	Ingonyama Trust		Contact	:	Mr Duncan Pakkies	
Telephone	Land-line (033) 355 4315	Cell	073	992 0567	
E-mail	kdlpakkies@ruraldevelopmen	t.gov.za				
Postal Address	P O Box 601, PIETERMARITZBU	JRG, 3200				
DCO	Zodwa Mnyandu		E-mail:		mnyandn@kznwildlife.com	
Telephone	·	036) 488 1254	Cell		744 0771	
ссо	Zandile Mtambo					
Telephone	Land-line (036) 488 1634	Cell	071	672 7769	
iNkosi	M.E. Miya (amaZizi area)		Menzi H	longw	ana (amaNgwane area)	
Telephone	n/a		n/a			
Cell	083 481 2779 / 071 862 4424		071 542 4709 Co-ordinator, Mr Zwane: 0847218074			
Postal Address	Postal Address P.O.Box 4401, Bergville, 3350		P.O. Box	204,	Bergville, 3350	
iNduna	Mr W P Hlatshwayo (amaZizi)					
Telephone	Land-line			0732	2528774	
Postal Address	P.O.Box 4401, Bergville, 3350					

Information Supplied by

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PART 2: BIODIVERSITY INFORMATION

Overall Objectives of the Site Assessment

- 1. Determine the biodiversity value of the proposed stewardship area
- 2. Determine land-use pressures and threats to the proposed stewardship area
- 3. Determine whether the proposed stewardship area warrants incorporation into the KZN Biodiversity Stewardship Programme
- 4. Establish the preferred stewardship category
- 5. Begin the process of developing a management plan for the proposed stewardship area
- 6. Establish a baseline for evaluation of management effectiveness

Procedure for the Site Assessment

- 1. The Site Assessment is coordinated by the KZNBSP Facilitator
- 2. The KZNBSP Facilitator must assemble an appropriate Assessment Team based on the requirements of each site
- 3. The sections shaded in green should be completed by the Assessment Team
- 4. The sections shaded in blue should be completed by the Assessment Team and the Landowner
- The sections shaded in yellow should be completed by the Landowner
- 6. The Site Assessment comprises a Desktop Assessment and a Field Assessment component
- 7. Certain sections require scores to be assigned (1-5) consult scoring system in Appendix 1.

Data required

- EKZNW Biodiversity Database
- SEA Database

The following spatial data layers were used for the Desktop Assessment of the site:

- Orthophoto (if available)
- Satellite image (if orthophoto not available)
- 1:50 000 topographical map
- Cadastral layer
- KZN Vegetation Types layer
- Ecosystem Status of Vegetation Types
- Irreplaceability layer
- KZN minset layer 2010
- Transformation / landcover layer 2005
- Corridors layer
- Wetlands layer
- River layer
- Road layer
- Protected area layer
- Aquatic CPlan (2007)
- Proposed Wilderness Buffer
- MDTP Woody Invasive Plants
- DLA Gazetted Restitution Claims
- DLA Redistribution Projects Oct 2010
- Palaentological Records
- Rock Art Sites

Maps attached to the Desktop Assessment (A4)

- 6. Map of site's Irreplaceability
- 7. Map of Minset
- 8. Landcover map
- 9. Map of the Vegetation Types occurring on the site with hatched transformation layer overlaid
- 10. MDTP Woody Invasive Alien Plants

Maps produced during Desktop Assessment for use in the Field Assessment (A3)

- 1. Orthophoto (or satellite image), with rivers and roads
- 2. 1: 50 000 topographical map

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1 CLINCHERS

Maloti Grasslands (23) is listed as a focus area for land-based protected area expansion (large, intact and unfragmented areas of high importance, suitable for the creation or expansion of large protected areas) in the National Protected Area Expansion Strategy (NPAES), March 2009. Furthermore, the KZN Biodiversity Stewardship Programme has highlighted the upper uThukela region as a priority areas for protected area expansion (see Figure 1).

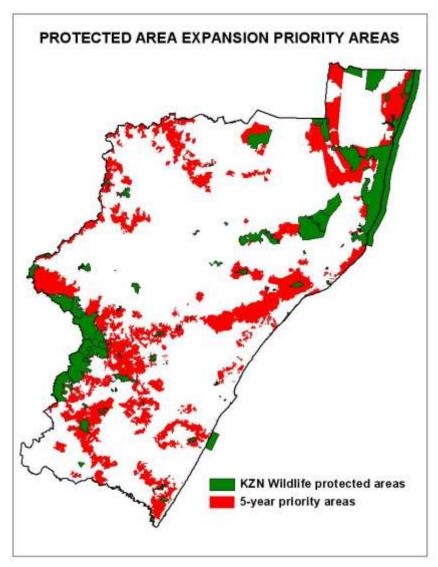


Figure 1: KZN BSP Map of KwaZulu-Natal indicating the priority areas for protected area expansion

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1.1 Does the area fall within an **Irreplaceable / Minset** area?

Desktop assessment	Y	N	Field verification Y N	
Biodiversity Priority Area 1	25%		Instructions:	
Biodiversity Priority Area 2		0%	Verify that the feature driving the Irreplaceable status occurs on the site.	
Biodiversity Priority Area 3		0%	Note that the completion of this biodiversity assessment form has	
Instructions: Examine the KZN C-Plan layer: determine driving this status. In the 2009 TSCP extract for the project area, C-Pl values range from 0 – 1, with 25% of the site being c Natal meeting its conservation goals and targets in the biodiversity targets, the more sensitive areas being higher-lying boundary. Considering landscape is	the KZN C-Plan layer: determine status and what is ract for the project area, C-Plan irreplaceability 1, with 25% of the site being critical to KwaZuluservation goals and targets in terms of terrestrial he more sensitive areas being on the western		been based on expert knowledge and opinion and information provided from a range of specialists who have been working in the area for many years. Field verification was undertaken by Kev Zunckel, Mxolisi Fulumente and a local amaZizi guide, Petr Ngwane, within the Busingata Valley on the 28 th November 20 and many of the desktop findings were confirmed. Other parts the project area are also well known to the assessors.	
Record features driving Irreplaceable status: Too many to mention in the space provided (see Appel	ndix 4).		Comment:	

1.2 Does the area contain a Critically Endangered vegetation type?

Desktop assessment	Y	Field verification	Y
Instructions:		Instructions:	
Examine the Vegetation Types layer and Transformation	layer:	Verify that the Critically Endangered vegetation ty	pe occurs on the
determine if a Critically Endangered vegetation type occ	urs.	site.	
Record vegetation type(s) present:		Comment:	
Drakensberg Foothill Moist Grassland Drakensberg Montane Forest Drakensberg-Amathole Afromontane Fynbos Glencoe Moist Grassland	ast Threatened Vulnerable east threatened east threatened Vulnerable ast Threatened Vulnerable		
	east threatened		

1.3 Does the area contain Critically Endangered species?

Desktop assessment	N	Field verification N
Instructions: Using the EKZNW Biodiversity Database (or any other of such information): does the property contain conservation concern on the Red List (CR, EN, VU, NT Deficient, or Rare)?	any species of	Instructions: Verify that the species recorded occurs, note additional Critically Endangered species – consult expert if necessary. Provide population numbers data to verify viability of the population.

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Record Critically Enda	angered species:		Comment:
Anthropoides paradiseus	Blue Crane	En (TOPS_CATEG)	The EKZNW SEA, Biodiversity, Priority Species, IUCN & SARDB databases were checked and revealed 5 endangered species in the
Balearica regulorum	Grey Crowned Crane	En (TOPS_CATEG)	project area and one critically endangered species.
Bucorvus Ieadbeateri	Southern Ground-hornbill	En (TOPS_CATEG)	During the field verification on 28 th November 2010, 3 Southern Ground-hornbills were encountered.
Gypaetus barbatus	Bearded Vulture	En (SARDB & TOPS CATEG)	
Kniphofia latifolia Leptopelis	-	En (IUCN)	There are known very important Bearded Vulture nesting sites in the area (Sonja Krueger, pers comm., 27 th October 2010).
xenodactylus	Long-toed tree frog	En, decr (IUCN)	It is highly likely that the other listed endangered species do exist
Protea nubigena	-	CR (IUCN)	in the project area.

2 BIODIVERSITY FEATURES

2.1 HABITATS

2.1.1 <u>Does the area contain threatened habitats or vegetation types?</u>

Desktop assessment		Field verification	
Instructions:	Instructions:		
Using the Vegetation Types layer, list the vegetation indicate their Ecosystem Status	n types and	Verify that the vegetation types occur on the site.	
List vegetation types and their Ecosystem Status:	Score	Comment:	
Endangered (4):		All of the vegetation types listed do occur in the project area.	
Vulnerable (3):			Score
Drakensberg Foothill Moist Grassland Northern KwaZulu-Natal Moist Grassland Glencoe Moist Grassland	3		
Least Threatened (2):			
Drakensberg Afroalpine Heathland	2		
Drakensberg Montane Forest Drakensberg-Amathole Afromontane Fynbos			
Northern Drakensberg Highland Grassland			
uKhahlamba Basalt Grassland			

2.2 PROTECTION STATUS OF THE VEGETATION TYPES PRESENT

Desktop assessment					
Instructions:					
Record ho	w much of each vegetation type present is conser	ved in statutory reserves.			
	Vegetation Type	Protection Status	Provincial area (ha)	Conserved	
	Drakensberg Afroalpine Heathland	Least threatened	6409.92	86.12%	
	Drakensberg Foothill Moist Grassland	Least threatened	586691.24	5.96%	
	Drakensberg Montane Forest	Least threatened	6954.32	57.56%	
	Drakensberg-Amathole Afromontane Fynbos	Least threatened	1371.8	50.99%	

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	Glencoe Moist Grassland	Vulnerable	300063.72	0.01%			
	Northern Drakensberg Highland Grassland	Least threatened	70818.08	54.51%			
	Northern KwaZulu-Natal Moist Grassland	Vulnerable	424679.28	1.2%			
	uKhahlamba Basalt Grassland	Least threatened	120521.04	88.69%			
Protection	Protection status: No portions of the property are formally protected.						

2.3 BIODIVERSITY TARGET ACHIEVEMENT

- 1. Calculate the proportion of the provincial extent of the vegetation types contained within the property using the following formula:
- 2. Calculate the properties potential contribution to biodiversity targets for vegetation types using the following formula:

Vegetation Type	% Provincial Extent of Vegetation Type Within the Study Area ¹	Potential Contribution of Property to Biodiversity Targets (Hectares) ²
Drakensberg Afroalpine Heathland	11.8	205.120
Drakensberg Foothill Moist Grassland	1.2	1697.932
Drakensberg Montane Forest	3.9	105.004
Drakensberg-Amatole Afromontane Fynbos	17.0	78.325
Glencoe Moist Grassland	0.0	0.603
Northern Drakensberg Highland Grassland	28.9	5574.033
Northern KwaZulu-Natal Moist Grassland	0.1	89.183
uKhahlamba Basalt Grassland	10.9	3556.592

2.4 CONDITION OF THE VEGETATION TYPES PRESENT

Desktop assessment: Using the transformation layer, indicate the level of habitat transformation for the site and the individual vegetation types.

Vegetation Type	% transformed
Drakensberg-Amatole Afromontane Fynbos	7.01
Drakensberg Afroalpine Heathland	0.61
Drakensberg Foothill Moist Grassland	32.89
Drakensberg Montane Forest	0.29
Glencoe Moist Grassland	90.45
Northern Drakensberg Highland Grassland	5.57
Northern KwaZulu-Natal Moist Grassland	85.49
uKhahlamba Basalt Grassland	1.20

From the table alongside, it can be seen that three of the eight represented veld types have been highly transformed with Glencoe Moist Grassland and Northern KwaZulu-Natal Moist Grassland being transformed the most. However, this must be seen within the context that their potential contribution to the provincial conservation targets is of the lowest of the vegetation types which decreases the significance of the high level of transformation. The next highest level of transformation is in the Drakensberg Foothill Moist Grassland which also has a small percentage representation and contribution to the provincial target and can also be seen within the same context as the other two types. The levels of transformation for the other five vegetation types are all low.

	Degraded Land Cover Classes:	Ha	%
26	Degraded Bushland (all types)	1.709	0.004
27	Degraded Grassland	977.759	2.196
31	Erosion	9.027	0.020

According to the 2005 Landcover imagery, the extent of degradation in the project area is minimal with grasslands being the most degraded at 2.2%. Although the amaZizi and amaNgwane have been working for many years at donga reclamation, erosion within the

context of the entire project area is very low and limited to the lower lying areas where extensive grazing takes place. Sandstone areas tend to be most prone to degradation (Roger Uys, pers comm.)

¹ Untransformed extent of vegetation type within property / provincial extent of vegetation type x 100 = % provincial extent of vegetation type within property.

² Untransformed extent of vegetation type within property / vegetation type target x 100 = potential contribution of property to biodiversity target.

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Field verification: Assess the condition of the vegetation types present – consult an expert if necessary.

Condition of vegetation: The area under assessment has specifically been selected because of the absence of disturbance, low levels of transformation and degradation. Although no veld condition or biodiversity assessments have been carried out in the area, the ground-truthing exercised carried out on the 28th November 2010 revealed that the condition is very good, especially in the higherlying areas above the sandstone.

Condition of vegetation:	Score	
Transformed (0)		
Poor (1)		
Reasonable (2)		
Good (3)		
Very good (4)	4	Score
Excellent (5)		

2.5 Habitat fragmentation

Desktop assessment	Desktop assessment			
Instructions:		Instructions:		
Examine the vegetation types layer, transformation		Examine the degree of fragmentation of natural areas on the	e site.	
layer and orthophotos and comment on the degree of				
fragmentation of natural areas on the site.				
Degree of fragmentation:	Score	Degree of fragmentation:	Score	
Very high (1)		Very high (1)		
High (2)		High (2)		
Moderate (3)		Moderate (3)		
Low (4)		Low (4)		
Very low (5)	5	Very low (5)	5	Score

Comments: This area forms an uninterrupted corridor between the Cathedral Peak and Royal Natal sections of the UDP WHS and there are no impediments to the movement of species and the flow of ecological process both across and along the gradients.

2.6 POTENTIAL TO REHABILITATE DEGRADED AREAS ON THE SITE

Desktop assessment	Field verification		
Comments:	Instructions:		
The potential to rehabilitate degraded areas in the project area is	Evaluate the potential to rehabilitate degraded areas of the	site.	
very good. There have been years' worth of active intervention in	Rehabilitation Potential	Score	
this regard through the University of KwaZulu Natal and the	None (0)		
establishment of Donga Committees within the amaZizi and	Poor (1)		
amaNgwane communities. In addition to this the various	Reasonable (2)		
committees that have been established within the amaZizi and	Good (3)		1
amaNgwane communities all have the capacity and desire to see this area conserved and receive World Heritage status. All	Very good (4)	4	Score
indications are that they are willing to participate in the compilation			
of the management plan for the area and that they will remain	Excellent (5)		
available to implement the actions necessary for rehabilitation and maintenance of the areas biodiversity.	Comments: (see alongside)	I	

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3 SPECIES

3.1 PRIORITY SPECIES OCCURRING ON THE SITE

p assessment	Field verification			
Instructions: Using the Biodiversity D/B or Red List species data layers, or any other reputable source of species information, is it likely that the property contains any priority species (see Appendix 3). Note the data source and whether species records are based on actual occurrences or modelled or historic data.				
species:		Confirmed priority species:	Source:	Score
Intermediate Natal spiny reed frog Blue Crane Grey Crowned Crane Southern Ground-hornbill African Marsh-Harrier Lesser Kestrel Southern Bald Ibis, Bald Ibis Wattled Crane Bearded Vulture Cape vulture Blue Swallow Denham's Bustard Martial eagle African Grass-Owl, Grass Owl Grey rhebuck	Data source: (see Appendix 4)	During the site visit on the 28 th November 2010, 3 Southern Ground-hornbills were encountered. There are known very important Bearded Vulture nesting sites in the area (Sonja Krueger, pers comm., 27 th October 2010). It is highly likely that the other listed priority species do exist in the project area.		
-				
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3.2 Threatened, red data or species of special concern occurring on the site

Desktop assessment		Field verification		
Instructions: Using local knowledge, the EKZNW Biodiversity Database, the SEA (or any other reputable source of such information): does the property contain threatened, red data or species of special concern? Note the data source and whether species records are based on actual occurrences or modelled or historic data.		Instructions: Confirm that the threatened, red data or species of listed in the desktop assessment occur on the expert, if necessary. Note any additional species of are confirmed to occur.	site. Consult an	
Threatened, red data listed species: (see Appendix 4)	Data source:	Confirmed listed species: A Jackal Buzzard was encountered on the site visit on the 28 th November 2010.	Source: CITES Appendix II	Score

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3.3 KZN OR SA ENDEMIC OR NEAR-ENDEMIC SPECIES OCCURRING ON THE SITE

Desktop assessment	Desktop assessment Field verification			
Instructions:		Instructions:		
Using local knowledge, the EKZNW Biodiversity Database, the SEA		Confirm that the KZN or SA endemic or near-endemic species listed		
(or any other reputable source of such information): does the		in the desktop assessment occur on the site. Consult an expert, if		
property contain endemic (SA, near-KZN or KZN) species? Note the		necessary. Note any additional KZN or SA endemic species observed,		
data source and whether species records are based on actual		or that are confirmed to occur.		
occurrences or modelled or historic data.				
KZN or SA endemics / near endemics:	Data	Confirmed KZN or SA endemics:	Source:	Score
	source:		EKZNW	
(see Appendix 4)		A Berg adder (KZN endemic) was encountered on	Biodiversity	
		the site visit on the 28 th November 2010.	Database	

3.4 POTENTIAL OF THE SITE FOR SPECIES RECOVERY

Desktop assessment	Field verification		
Instructions:	Instructions:		
Determine the Summed irreplaceability for species according to C-	Evaluate the potential of the site for recovery of special	species	
Plan. List those species contributions	populations.		
Comments:	Species recovery potential:	Score	
The potential for species recovery within the project area is high.	None (0)		
The vegetation and habitat condition and diversity is good, but the	Very low (1)		
limiting factor is the lack of presence of megafauna due to	Low (2)		
consumptive utilisation. If the BSP and subsequent proclamation	Moderate (3)		
can bring about the development of the area as a tourism	High (4)	4	
destination, similar in some parts to the adjacent UDP WHS areas,	Very high (5)		Scor
then the benefits realised might serve as an incentive to conserve all	Comments: (see alongside)		
of the features that attract the visitors.			

4 ECOLOGICAL PROCESSES

4.1 Habitat heterogeneity

	Field verification		
Instructions:			
Examine the vegetation types layer and count the number of		Confirm the number of habitats on the site. Include any additional	
habitats on the site.			
Score	Habitat heterogeneity:	Score	1
	Low – 1 habitat (1)		1
	Moderate – 2 habitats (3)		1
5	High - ≥ 3 habitats (5)	5	9
		Instructions: Confirm the number of habitats on the site. Include any a habitats not listed in the desktop assessment. Score Habitat heterogeneity: Low – 1 habitat (1) Moderate – 2 habitats (3)	Instructions: Confirm the number of habitats on the site. Include any additional habitats not listed in the desktop assessment. Score Habitat heterogeneity: Low – 1 habitat (1) Moderate – 2 habitats (3)

Comments: The mountainous terrain lends itself well towards varied aspect and slope, which, together with varied geology and the 8 vegetation types occurring on the property, present extremely high habitat heterogeneity, especially towards the western escarpment.

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4.2 Scale of ecological processes that can take place on the property (related to property size)

Desktop assessment	
Instructions:	
Calculate the size of the property = 44,525.281626 Ha (Proposed Wilderness Boundary)	
Property size:	Score
<100 ha (1)	
100 – 500 ha (2)	
500 – 1 000 ha (3)	
1 000 – 5 000 ha (4)	
> 5 000 ha (5)	5

Comments: The portion of land is far in excess (almost by 9 times) of the highest category given above so the scale at which ecological processes can take place on the property is excellent.

4.3 PROPERTY'S CONTRIBUTION TO BIOLOGICAL ADAPTATIONS TO CLIMATE CHANGE (ALTITUDINAL GRADIENTS)

Desktop assessment	
Instructions:	
Calculate altitudinal gradients using the following formula: Highest point on property – lowest point on property = altitudinal gradient	t
Altitudinal gradient =	Score
< 100 m (1)	
100 – 200 m (2)	
200 – 300 m (3)	
300 – 400 m (4)	
> 400 m (5) 3223-1253 = 1970m	5

Comments: In addition to the altitudinal gradient, the site's topography is highly heterogeneous as a result of the combination of variations in slope, aspect and geology. Topographical features include flat valley bottoms cutting right back up to the base of the escarpment, steep scree slopes ending in both sandstone and basalt cliffs, gently undulating plateaus, and dramatic mountain features including buttresses, turrets, cliff faces and deep gorges. This topographical heterogeneity will also contribute to climate change resilience.

4.4 IS THE PROPERTY WITHIN A CORRIDOR OR DOES IT ACT AS A 'STEPPING STONE' FOR THE MOVEMENT OF SPECIES?

Desktop assessment Field verification			
Instructions:		Instructions:	
Examine corridors layer, vegetation types and transformation layers		Verify that any corridors identified in the desktop assessment are	
and orthophotos and determine whether the property falls within		functional (i.e. there are not barriers to the movement of sp	ecies).
an important corridor or stepping stone.			
Corridors and stepping stones:	Score	Corridors and stepping stones:	Score
Falls outside of corridors or stepping stone areas (1)		Falls outside of corridors or stepping stone areas (1)	
Falls within a corridor or stepping stone area (5)	5	Falls within a corridor or stepping stone area (5)	5
0 . = /0 0			

Comments: The 'Berg Corridor' and 'Alpine corridor' traverse the a large proportion of the western portions of the project area. These are two of the 17 ecological corridors that EKZNW refined from SANBI's National Spatial Biodiversity Assessment (NSBA) and which are critical for maintaining ecological connectivity at the local, landscape and provincial levels.

Zunckel Ecological & Environmental Services

Score

Score

Score

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4.5 Is the property of strategic value as a **buffer** to protected areas or as a protected area **consolidation** or **expansion** area?

Desktop assessment		
Instructions:		
Consult the Protected Areas layer and the KZN Protected Areas Expansion layer.		
Protected Area buffers, consolidation and expansion areas:	Score	
Protected Area buffer (3)	3	
Protected Area consolidation (4)	4	Sco
Protected Area expansion (5)	5	

Comments: The area most definitely does have strategic value (Clinton Carbutt, *pers comm.*). It is located within the existing buffer of the UDP WHS. Once secured, it will function more as a key linkage between the Cathedral Peak and Royal Natal Management Units of the UDP WHS so its strategic value lies more in 'consolidating' the UDP WHS rather than acting as a buffer (even if not managed by EKZNW). One could argue that it will buffer the 2 disjunct Management Units of the UDP WHS as well. The other strategic value of securing the Upper Thukela is that is also fulfils a commitment to the World Heritage Convention. According to Roger Porter, at the time of listing the UDP as a WHS, EKZNW agreed to incorporate the Upper Thukela into the WHS, which has not been done to date (Clinton Carbutt, *pers comm.*).

5 ECOSYSTEM GOODS AND SERVICES

5.1 Do important **provisioning services** occur (are products obtained from the ecosystems)?

Field verification		
Instructions:		
Score each of the services below in terms of availability of the service and demand for the service. Consult	Appendix for scores	5.
Considering both availability and demand (use a score of between 1 and 5 to express how much the	property contributes	s to each of the
following ecosystem services [Make use of Appendix 2 to answer this question] and map relevant areas if	possible)	
Provisioning services	Avail.	Demand
Clean water production (grassland function)	5	5
Water purification (wetland function) (this is a regulatory service)	5	5
Food	2	4
Medicinal plants or products	3	3
Fire wood	1	5
Harvesting of plant material (e.g. thatch, sedge, poles)	4	4
Grazing (BRUs 10 - 5ha/AU, 8 - 2ha/AU and 11 - 2ha/AU)	3	5
Pollination	5	3
Animal harvesting	1	3
Other – rocks are collected both from alluvial deposits as well as from hill slopes for both construction and gully reclamation. While there is an excellent availability, logistical limitations reduce this score.	3	4

Comments: The grazing capacity of this area is seasonal where historically game would have migrated eastwards into the lower-lying sweetveld areas in winter. Today animals are limited due to historical political limitations. Intensive management of livestock is required in order to optimise the potential. In addition to this the security issues around stock theft also need to be brought under control to provide an enabling environment for optimum livestock management.

5.2 Do important **regulating services** occur (do benefits accrue through ecological processes)?

S.
D
Demand
5
5
5
5

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Comments: See Maloti Drakensberg Transfrontier Project (2007) Payment for Ecosystem Services: Developing an Ecosystem Services Trading Model for the Mnweni/Cathedral Peak and Eastern Cape Drakensberg Areas. Mander (Ed) INR Report IR281. Development Bank of Southern Africa, Department of Water Affairs and Forestry, Department of Environment Affairs and Tourism, Ezemvelo KZN Wildlife, South Africa. This work illustrates the feasibility of implementing a PES system for this area based on catchment services and carbon sequestration.

5.3 DO ANY IMPORTANT **CULTURAL SERVICES** (NON-MATERIAL BENEFITS) OCCUR?

Field verification – as above.		•
Instructions:		
Score each of the services below in terms of availability of the se	rvice and demand for the service. Consult Appendix for score	es.
Cultural services:	Avail.	Demand
Education	5	3
Recreation	5	4
Aesthetics	5	5
Spiritual	5	5
Cultural	5	5
Other		
Comments Many of the features listed above some as attraction		

Comment: Many of the features listed above serve as attractions to visitors to the area and are thus valuable assets that support a tourism industry. With additional inputs and support, this industry can grow and play a greater role in the livelihoods of the local people.

Total score Score

6 OTHER INFORMATION

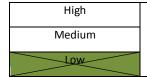
6.1 THREATS

Rate the following threats to biodiversity on the proposed stewardship area (also add any threat not captured below):

Threats	1-5 score:	Comments:
a. Alien plants	3	Clearing of woody aliens must be done carefully to ensure that there is fuel wood for local people.
b. Poaching / illegal harvesting	5	This requires verification but EKZNW assume high levels of utilisation taking place
c. Fire	2	The application of fire as a management tool requires review and there is no data on the history of fire in the area.
d. Grazing	3	Grazing is more of a threat than fire, but most of the grazing pressure is in the lower lying areas outside the target area.
e. Accelerated soil erosion	2	As previously stated this area has been selected because of the low levels of disturbance and the same is true for soil erosion which is prevalent in the areas below the target area.
f. Extra-limital / alien animals	1	There are no alien animals that are known in the area, but domestic dogs may be used for hunting.
g. Land-invasion	0	
h. Mining	0	
i. Water abstraction / dams	0	Inter-basin water transfers provide an opportunity for this area to trade in ecosystem services
j. Pollution	0	
k. Uncontrolled Access	5	The area serves as a corridor for the movement of drugs, stolen livestock and firearms between RSA and Lesotho.
I. Other:		

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Indicate the extent of invasion by alien plants within the proposed stewardship area. State which alien plants occur predominantly. Indicate invaded areas on Map 5.



Comments: The alien plant invader species in the valley are primarily wattle (*Acacia mearnsii*) and bramble (*Rubus cuneifolius*). Wattle provide both fuel and construction wood and are is therefore potentially under control, but bramble is emerging as one of the more prolific invaders which has no use except for the provision of fruit during a very short season in summer. Bramble is very difficult and expensive to control and is thus a serious threat to this area.

6.2 MANAGEMENT ISSUES

6.2.1 <u>Has the landowner invested any resources in alien plant eradication? Indicate hectares cleared</u> and funds invested. Map cleared areas.



No

Comments: Funds have been invested through a number of externally funded projects such as Working for Water, but there has not been a coherent effort to control alien invasive plants. The latest information from Working for Water is that we have requested this information from the Department of Water Affairs but unfortunately at this time, the information had not been supplied. Once it becomes available, this report will be updated.

6.2.2 <u>Is the Working for Water Programme active within the property (or has it been so in the past)?</u> What forms of assistance have been provided?



No

Comments: (see 6.2.1 above)

6.2.3 <u>Is there a written management plan for the property and, if so, what is its status (e.g. in</u> development, draft plan or completed plan)?

Yes

Comments: A management planning process has been initiated and is projected to be complete in April 2011.

6.2.4 Is the site used for any non-consumptive uses (e.g. hiking, mountain biking)?



No

Comments: The area has a "Cultural and Hiking Centre" in the Mnweni valley where hikers park their cars and use as a departure point to access the upper reaches of the valley and the escarpment. Trained guides are also available to accompany hikers. No other formal access for non-consumptive use is available but the potential exists. The escarpment in this area does form one of the most prominent features of the KZN Drakensberg and provides a panoramic view for travellers along the Winterton, Bergville, Oliviershoek Pass road, and as such is of great non-consumptive value.

6.2.5 <u>Does any consumptive utilisation occur on the proposed stewardship area (e.g. grazing, hunting, mowing of hay, thatch grass harvesting etc.)?</u>



No

Comments: The amaZizi and amaNgwane people have traditionally lived off this land for many years and many forms of consumptive utilisation occur, such as grazing, harvesting of thatching grass and medicinal plants, hunting, etc.)

6.2.6 What is the current burning regime on the property?

Comments: Currently the area is burnt according to traditional grazing practice which essentially means that an annual to bi-annual burn is applied by most livestock owners. A greater frequency may also occur with two burns per annum taking place when sufficient biomass is available. The extent of the burns are generally limited as they emanate from point ignitions, however due to the complete lack of planning and fire breaks, these may extend to cover larger areas at times. The motivation for burning is generally for the provision of a green flush for livestock and is thus timed for early to late winter. Where autumn burns have been applied a second burn may be implemented in spring.

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

6.2.7 <u>Give details around the grazing system used (stocking rate, time of year etc). Domestic livestock and indigenous game</u>

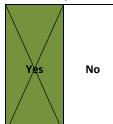
Comments: Livestock owned and managed predominantly for traditional purposes, i.e. livestock is not farmed for commercial purposes. Cattle and horses are traditionally viewed as being the assets of the men folk, while goats, pigs and poultry are the women's. The latter keep and manage their livestock for the household, while the men keep theirs as a symbol of wealth. As such little regard is paid to the concept of carrying capacity and areas under such land use traditionally demonstrate symptoms of over-utilisation. This is particularly prevalent in the areas under the jurisdiction of wealthier people such as those trading in dagga, where their wealth is converted into livestock which has caused over-grazing of the grasslands that are at their disposal. Fortunately this pressure is more to the lower reaches of this area.

6.2.8 <u>What notable management or restoration actions are required (e.g. erosion control, destocking, fencing)?</u>

Comments: A number of groups are working with the people in this area already and restoration of gully erosion has been taking place for almost ten years now. The Grassland Dept. of UKZN, the Farmer's Support Group, and more recently the African Conservation Trust are providing funding and technical support to the communities to apply restoration action and to implement more sustainable grazing regimes.

A factor that complicates the implementation of sustainable veld management, be that burning and/or grazing, is the Transfrontier and internal crime which includes livestock theft. This prevents livestock owners from keeping their animals out in the veld and they have to bring them into kraals on a daily basis.

6.2.9 <u>Are there any specific management needs that the landowner has? Does the landowner require, or has he requested, any specific support from EKZNW or other agencies?</u>



Comments: Yes there are many management needs which the above mentioned groups and others are addressing with the communities. EKZNW have a strained relationship with the communities but are gradually becoming involved. This Stewardship process is testimony to the increasing support that is being generated for EKZNW, but these relationships must be managed carefully as they can be fickle.

The majority of the community members are considered poor and it is unlikely that they will be able to afford to manage the area as is the case in the UDP WHS. Therefore assistance will always be required in one way or another.

6.2.10 Are there any veterinary restrictions imposed on the proposed stewardship area?



Comments: Due to the unnatural movement of livestock between Lesotho and South Africa as a result of stock theft, there is a real danger that animal disease can be transferred between the two countries and that resistance within current disease vectors may change and become an increasing threat to animal health (Todd Colllins, Veterinary Surgeon, Underberg, *pers comm.*).

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6.3 PARTNERSHIP OPPORTUNITIES

6.3.1 <u>Are there other current Partnerships or memberships to note? (e.g. Conservancy, Fire Protection Association, Water users Association)</u>



No

Comments: The communities are highly organised with the traditional leadership structures in place as well as a host of committees. Some of the latter have been specifically instituted to oversee rehabilitation work, the protection of rock art sites, and the establishment of the wilderness area.

6.3.2 <u>Is the proposed stewardship area an existing Natural Heritage Site, Site of Conservation Significance, Community Conservation Area or Registered Commercial Game Farm, Registered Important Bird Area?</u>



Comments:

6.3.3 <u>Specify any conditions or agreements applying to property (e.g. Trusts, MoA's, MoU's, permissions, permits, EIA applications, development conditions, liabilities, directives in terms of any legislation, land claims or servitudes).</u>



No

Comments: The area is currently State Land administered by the Ingonyama Trust Board.

6.3.4 Are there any development intentions for the area proposed for conservation?



No

Comments: The Okhahlamba Local Municipality's Local Economic Development Plan previously listed the potential of a cable car development up to the northern buttress of the Saddle. These plans have been aggressively contested in 2002/3 but have since emerged from time to time. The current Local Economic Development Plan is not specific enough to list projects such as this.

6.3.5 Does the landowner have any intentions of selling the property in the near future?

Yes

Comments: See 3.3.3 - not applicable.

6.4 LAND CLAIMS



Comments:

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SUMMARY

1 CONTRIBUTION TO CONSERVATION

(Please rate as E (Essential), I (Important), or N (Not Essential or Important)

Contributes to conservation of important vegetation types	1
Contributes to conservation of important species	E
Contributes to conservation of important ecological process	E
Contributes to conservation of system that provides significant ecosystem services	E

2 NEMA PAA CHECKLIST

(Please tick the appropriate box)

2 b (i) has significant features or biodiversity	√
2 b (ii) is of scientific, cultural, historical or archaeological interest	√
2 b (iii) is in need of long-term protection for the maintenance of its biodiversity or for the provision of environmental goods and services	√
2 c provides for a sustainable flow of natural products and services to meet the needs of a local community	√
2 d enables the continuation of such traditional consumptive uses as are sustainable	√
2 e provides for nature-based recreation and tourism opportunities	√

3 MAJOR REASONS FOR SUGGESTED STEWARDSHIP STATUS

- 1. The area has long been a gap between disjunct portions of the UDP WHS and in the registration of the latter its incorporation was listed as a condition for World Heritage Status.
- 2. Stewardship Agreement will provide the institutional framework within which PES options may be brokered and the value of the natural resource base will be realized, thus securing sustainable land use and related biodiversity, and the provision of better livelihood opportunities for affected communities.
- 3. The area produces ecosystem services that are of strategic significance to a broader community and which contribute to supporting economic activities way beyond the boundary of the area.
- 4. Important biodiversity elements are features of the area and the Stewardship Agreement could lead to their persistence and sound management.
- 5. Important cultural heritage features are in abundance in the area and the Stewardship Agreement could lead to their improved protection and sound management.

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

4 MOST IMPORTANT CONSERVATION MANAGEMENT OBJECTIVES FOR THE PROPERTY

- 1. To respect and give access to the area's biodiversity, cultural and wilderness values in order to realise the acceptable tourism potential for the area, its surrounding areas and stakeholders.
- Address security issues and illegal activities to ensure the integrity of the area, in participation with stakeholders, security services and the justice system, and create an enabling environment for the implementation of the management required for the maintenance of the natural and cultural heritage of the area.
- Establish and maintain effective linkages with affected communities and other stakeholders in order to ensure collaborative management of the area in synergy with adjacent properties and Lesotho.
- 4. To promote the conservation management and public appreciation of all cultural resources within the area in accordance with statutory regulations.
- 5. Ensure that those natural processes responsible for generating and maintaining biodiversity and ecosystem services continue to function.

Note that the above objectives have been extracted from the management plan for the UPD WHS and modified for this area. This has been done as it is believed that synergy between these areas is critical and that these objectives are current and relevant. However, the management planning process may establish other objectives.

5 COMMENTS AND ADDITIONAL INFORMATION

We believe that the information captured above is as comprehensive as possible at this point in time and it must be stressed that this assessment has focussed on the biodiversity features of the area. In addition to this, the Cultural Heritage features and the landscape character are in the same realm as that of the neighbouring UDP WHS. We therefore see no reason why World Heritage Status cannot be secured for this area as well. The process to achieve world heritage status would essentially be to secure the Stewardship Agreements with the two traditional authorities, proclamation of the two nature reserves and submission of application to UNESCO.

6 RECOMMENDED CATEGORY

RECOMMENDED CATEGORY: <u>Level 3: Nature Reserve</u>

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

APPENDIX 1 – SCORING CRITERIA

INDICA	INDICATOR SCORING		1	2	3	4	5
HABITATS	Ecosystem status	Other	LC	NT	v	E	CE
	Degree of fragmentation (of natural areas)	-	Very High	High	Moderate	Low	Very Low
	Ecosystem condition	-	Poor (BI 1)	Reasonable (BI 2)	Good (BI 3)	Very Good (BI 4)	Excellent (BI 5)
	Potential for rehabilitation	None	Poor	Reasonable	Good	Very Good	Excellent
SPECIES	KZN Priority species (see additional doc for list of species)	None	"Nice to" monitored and reported on		Species may be monitored and reported on		Species must be monitored and reported on
	RD species (Viable population)	Other	Rare or other RD category	NT	V	E	CE
	Endemism (KZN endemics incl. Near-endemics)	-	1 SA	≥ 3 SA	1 KZN / ≥ 5 SA	≥ 3 KZN	≥ 5 KZN
	Species recovery (summed irreplaceability for modelled distribution)	-	Very low	Low	Moderate	High	Very high
ECOLOGICAL PROCESSES	Habitat heterogeneity	-	Low 1 habitat		Moderate 2 habitats		High ≥ 3 habitats
	Property size	-	<100ha	100-500ha	500-1000ha	1000-5000ha	> 5000ha
	Altitudinal gradient	-	<100m	100-200m	200-300m	300-400m	> 400m
	Corridors (stepping stones)	-	Outside	-	-	-	Within
	Buffer / consolidation / PA expansion	-	None	None	Buffer	Consolidation	PA exp
	Ecological Processes – minimum size (based on priority species or vegetation type scale – Table 1 & 2)	-	Very small	Small	Medium (MINIMUM)	Large	Very large
ECOSYSTEM SERVICES	Benefit availability	None	Poor (0-19%)	Reasonable (20-39%)	Good (40-59%)	Very Good (60-79%)	Excellent (80-100%)
	User demand	No users	Very low	Low	Moderate	High	Very high

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

APPENDIX 2: BROAD VEGETATION TYPES FOUND IN THE PROVINCE, MAJOR DETERMINING PROCESSES, SPATIAL SCALE OVER WHICH THEY OPERATE AND MINIMUM SIZE OF A REASONABLY SELF SUSTAINING PROTECTED IN EACH TYPE.

(NOTE: 1 – these are guestimates and need refinement)

Broad Vegetation Type	Major determining Processes	Scale of Process (ha)	Minimum size	P.A. Minimum Size (ha)¹
Alpine Grassland	Fire, specialised pollination	100 – 1000	500	5 000
Moist Grassland	Fire, grazing, specialised pollination	10 – 1000	500	5 000
Semi-arid Savanna	Rain patterns, fire, grazing, browsing	10 - 10000	5000	10 000
Mesic Savanna	Fire, grazing	10 - 1000	1000	5 000
Semi-arid Bushland and Thicket	Browsing, fire (margins), avian seed dispersal	10 - 100	100	2 000
Dry Forest (Sand Forest)	Browsing, avian seed dispersal, fire (margins)	10 - 100	50	1 000
Moist Forest	Avian seed dispersal, wind blows, fire (margins)	10 -100	50	500

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

APPENDIX 3 - KZN PRIORITY SPECIES LIST (2009)

Damaliscus Hippotragus Hippotragus Neotragus Ourebia Pelea Philantomba Orycteropus Acinonyx	lunatus equinus niger moschatus ourebi capreolus monticola afer	lunatus cottoni niger zuluensis ourebi bicolor
Hippotragus Neotragus Ourebia Pelea Philantomba Orycteropus	niger moschatus ourebi capreolus monticola	niger zuluensis ourebi
Neotragus Ourebia Pelea Philantomba Orycteropus	moschatus ourebi capreolus monticola	zuluensis ourebi
Ourebia Pelea Philantomba Orycteropus	ourebi capreolus monticola	ourebi
Pelea Philantomba Orycteropus	capreolus monticola	
Philantomba Orycteropus	monticola	hicolor
Orycteropus		hisalar
· ·	afer	DICOIOI
Acinonyx	ajei	afer
	jubatus	jubatus
Amblysomus	marleyi	
Manis	temminckii	
Georychus	capensis	
Mystromys	albicaudatus	
Bucorvus	leadbeateri	
Pelecanus	rufescens	
Spheniscus	demersus	
Geronticus	calvus	
Aguila	rapax	
Circaetus		
Circus	ranivorus	
Gvps	africanus	
	•	
* *	monachus	
•	bellicosus	
Falco		
	•	
•	•	
· · · · · · · · · · · · · · · · · · ·		
• •	•	
Tyto	capensis	
Afrixalus	spinifrons	intermedius
•		
• •		
•		
• • • • • • • • • • • • • • • • • • • •	neringuevi	
· ·		
	Acinonyx Amblysomus Manis Georychus Mystromys Bucorvus Pelecanus Spheniscus Geronticus Aquila Circaetus Circus Gyps Gyps Necrosyrtes Polemaetus Terathopius Falco Ardeotis Neotis Neotis Spizocorys Poicephalus Bradypterus Stactolaema Scotopelia	Acinonyx jubatus Amblysomus marleyi Manis temminckii Georychus capensis Mystromys albicaudatus Bucorvus leadbeateri Pelecanus rufescens Spheniscus demersus Geronticus calvus Aquila rapax Circaetus fasciolatus Circus ranivorus Gyps africanus Gyps coprotheres Necrosyrtes monachus Polemaetus bellicosus Terathopius ecaudatus Falco naumanni Ardeotis kori Neotis denhami Neotis ludwigii Spizocorys fringillaris Poicephalus robustus Bradypterus sylvaticus Stactolaema woodwardi Scotopelia peli Tyto capensis Afrixalus spinifrons Hyperolius pickersgilli Leptopelis xenodactylus Caretta caretta Chelonia mydas Bradypodion setaroi Opsaridium peringueyi

	-1.11	
Lowveld Suckermouth	Chiloglanis	swierstrai
Black Tilapia	Oreochromis	placidus
Plants -	Asclepias	bicuspis
	Barleria	argillicola
	Aloe	gerstneri
	Aloe	inconspicua
	Aloe	pruinosa
	Aloe	reitzii
	Aloe	saundersiae
	Aloe	sp nov
	Gerrardanthus	tomentosus
	Encephalartos	msinganus
	Cynorkis	compacta
	Adenia	natalensis
	Huttonaea	woodii

Nice to monitor and report on					
Hippopotamus	Hippopotamus	amphibius	capensis		
Small spotted cat	 Felis	nigripes	thomasi		
Lion	Panthera	leo	leo		
_eopard	Panthera	pardus	melanotica		
White rhinoceros	Ceratotherium	simum	simum		
Plants -	Acalypha	entumenica			
	Acalypha	sp nov			
	Alberta	magna			
	Albizia	zuluensis			
	Aloe	cooperi			
	Aloe	mudenensis			
	Aloe	parviflora			
	Aloe	polyphylla			
	Aloe	umfoloziensis			
	Aloe	vanbalenii			
	Aloe	kniphofioides			
	Aloe	linearifolia			
	Aloe	minima			
	Ansellia	africana			
	Anthospermum	streyi			
	Aponogeton	ranunculiflorus			
	Argyrolobium	longifolium			
	<i>Aristea</i>	platycaulus			
	Asclepias	concinna			
	<i>Asclepias</i>	schlechteri			
	<i>Asclepias</i>	woodii			
	<i>Asclepias</i>	disparilis			
	<i>Asclepias</i>	gordon-grayae			
	Aspidoglossum	difficile			

Nice to monitor and		
Aspidoglossum	xanthospaerum	
Barleria	greenii	
Brachystelma	alpinum	
Brachystelma	christianeae	
Brachystelma	franksiae	
Brachystelma	kerzneri	
Brachystelma	natalensis	
Brachystelma	ngomense	
Brachystelma	petraeum	
Brachystelma	pulchellum	
Brachystelma	tenue	
Brachystelma	vahrmeijeri	
Bulbine	inflata	
Calpurnia	woodii	
Catha	abbottii	
Ceropegia	arenaria	
Ceropegia	craibii	
Ceropegia	cycniflora	
Ceropegia	rudatisii	
Ceropegia	scabriflora	
Chironia	albiflora	
Colubrina	nicholsonii	
Craterostigma	nanum	var nanum
Crocosmia	pearsii	
Cyrtanthus	brachysiphon	
Dahlgrenodendron	natalense	
Delosperma	velutinum	
Diaphananthe	millarii	
Dierama	dubium	
Dierama	erectum	
Dierama	luteoalbidum	
Dierama	nixonianum	
Dierama	pallidum	
Dierama	pumilum	
Dioscorea	brownii	
Disa	scullyi	
Disa	zuluensis	
Dracosiadium	italae	
Encephalartos	caffer	
Encephalartos	ferox	
Encephalartos	frederici guilielmi	
Encephalartos	ghellinkii	
Encephalartos	lebomboensis	
Encephalartos	natalensis	
Encephalartos	ngoyanus	
Encephalartos	senticosus	
Encephalartos	woodii	
Erica	abbottii	

Nico to monitor or	
Nice to monitor ar	psittacina
Eriosema	populifolium
Eriosema	umtamvunense
Eugenia	umtamvunensis
Euryops	brevipes
Geranium	ornithopodioides
Gerbera	aurantiaca
Gladiolus	cruentus
Habenaria	woodii
Helichrysum	ngomense
Helichrysum	haygarthii
Hermannia	sandersonii
Hesperantha	gracilis · , · ·
Holothrix	amajubensis
Huernia 	hystrix
Jubeopsis	caffra
Kniphofia	flammula
Kniphofia	latifolia
Lampranthus	fugitans
Leucodendron	spissifolium
Leucospermum	innovans
Macrotyloma	coddii
Manilkara	nicholsonii
Maytenus	abbottii
Maytenus	oleosa
Monsonia	natalensis
Mystacidium	aliceae
Orbea	speciosa
Orbea	woodii
Orbeopsis	gerstneri
Ozoroa	sp nov.
Pachyacris	sp nov. B
Pachyacris	sp nov. C
Pachycarpus	rostratus
Pelargonium	tongaense
Phylica	natalensis
Polygala	praticola
Pseudosalacia	streyi
Pseudoscolopia	polyantha
Psoralea	abbottii
Raphia	australis
Raphionacme	elsana
Rhus	kwazuluana
Rhus	rudatisii
Rhynchocalyx	lawsonoides
Rhynchosia	connata
Riocreuxia	alexandrina
Schizochilus	bulbinella

Nice to monitor and report on						
	Schizoglossum	ngomense				
	Selago	longiflora				
	Senecio	exuberans				
	Stachys	rivularis				
	Stenoglottis	longifolia				
	Stenoglottis	sp nov				
	Streptocarpus	floribundus				
	Streptocarpus	molweniensis				
	Struthiola	anomala				
	Syncolostemon	latidens				
	Syzigium	pondoense				
	Tenaris	christianae				
	Tephrosia	inandensis				
	Vanilla	roscheri				
	Watsonia	canaliculata				
	Watsonia	inclinata				
	Watsonia	mtamvunae				
	Watsonia	pondoense				
	Watsonia	bachmannii				
	Wolffiella	denticulata				
	Zeuxine	africana				

to inform the KZN Biodiversity Stewardship Programme in the Upper uThukela (amaNgwane and amaZizi) Wilderness Areas, Okhahlamba Local Municipality, KZN

APPENDIX 4 – FEATURES DRIVING THE IRREPLACEABILITY STATUS IN THE UPPER UTHUKELA PROPOSED WILDERNESS AREA

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW TSCP		Cochlitoma montistempli		
EKZNW TSCP		Fauxulus mcbeanianus		
EKZNW SEA	Amphibia	Afrixalus spinifrons intermedius	Intermediate Natal spiny reed frog	Near Threatened (IUCN)
EKZNW Biodiversity Database	Amphibia	Amietia vertebralis	Phofung river frog	Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP & Biodiversity Database	Amphibia	Anhydrophryne hewitti	Hewitt's Moss Frog, Natal moss frog	Least Concern (IUCN) Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP	Amphibia	Anhydrophryne Sp Sentinel	-	
EKZNW Biodiversity Database	Amphibia	Arthroleptis wahlbergii	Bush squeaker	Near-endemic (75-99%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Amphibia	Breviceps adspersus pentheri	Penther's bushveld rain frog	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP	Amphibia	Breviceps maculatus	-	
EKZNW Biodiversity Database	Amphibia	Breviceps verrucosus verrucosus	Plaintive rain frog	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Amphibia	Bufo gariepensis nubicolus	Karoo toad	Restricted in KZN; Near-endemic (75-99%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Amphibia	Bufo rangeri	Raucous toad	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Amphibia	Cacosternum nanum nanum	Bronze caco	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Amphibia	Cacosternum nanum parvum	Mountain caco	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Amphibia	Heleophryne natalensis	Natal ghost frog	Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Amphibia	Leptopelis xenodactylus	Long-toed tree frog	Endangered, decreasing (IUCN)
EKZNW Biodiversity Database	Annelida	Lumbricidae	Allolobophora rosea	Alien to KZN
EKZNW Biodiversity Database	Annelida	Lumbricidae	Dendrobaena rubida	Alien to KZN
EKZNW Biodiversity Database	Annelida	Megascolecidae	Amynthas diffringens	Alien to KZN
EKZNW Biodiversity Database	Annelida	Megascolecidae	Amynthas minimus	Alien to KZN
EKZNW SEA	Annelida	Parachilota minimus	Least earthworm	
EKZNW Biodiversity Database	Annelida	Proandricus lesothoensis	Lesotho earthworm	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Annelida	Proandricus pajori	Pajor's earthworm	
EKZNW Biodiversity Database	Aves	Accipiter melanoleucus	Black sparrowhawk	CITES Appendix II
EKZNW Biodiversity Database	Aves	Accipiter minullus	Little Sparrowhawk	CITES Appendix II
EKZNW Biodiversity Database	Aves	Accipiter rufiventris	Rufous-chested Sparrowhawk, Red-breasted Sparrowhawk	CITES Appendix II
EKZNW Biodiversity Database	Aves	Accipiter tachiro	African Goshawk	CITES Appendix II
EKZNW Biodiversity Database	Aves	Alcedo semitorquata	Half-collared Kingfisher	Near Threatened (SARDB)

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW SEA & Biodiversity Database	Aves	Anthropoides paradiseus	Blue Crane	Vulnerable, Decreasing (SARDB & IUCN) Endangered (TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Aves	Aquila verreauxii	Verreauxs' Eagle, Black Eagle	CITES Appendix II
EKZNW Biodiversity Database	Aves	Asio capensis	Marsh Owl	CITES Appendix II
EKZNW Biodiversity Database	Aves	Aviceda cuculoides	African Cuckoo Hawk	CITES Appendix II
EKZNW SEA & Biodiversity Database	Aves	Balearica regulorum	Grey Crowned Crane	Vulnerable, Decreasing (SARDB & IUCN) Endangered (TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Aves	Bubo africanus	Spotted Eagle-Owl	CITES Appendix II
EKZNW Biodiversity Database	Aves	Bubo capensis	Cape Eagle-Owl	CITES Appendix II
EKZNW SEA & Biodiversity Database	Aves	Bucorvus leadbeateri	Southern Ground-hornbill	Vulnerable (SARDB & IUCN) KZN Priority Species - May monitor and report on Endangered (TOPS_CATEG)
EKZNW Biodiversity Database	Aves	Buteo rufofuscus	Jackal Buzzard	CITES Appendix II
EKZNW Biodiversity Database	Aves	Chaetops aurantius	Drakensberg Rock-jumper, Orange-breasted Rockjumper	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Aves	Ciconia nigra	Black Stork	Near Threatened (SARDB), Vulnerable (TOPS_CATEG) CITES Appendix II
EKZNW Biodiversity Database	Aves	Circus maurus	Black Harrier	Near Threatened (SARDB), Vulnerable (IUCN) CITES Appendix II
EKZNW Biodiversity Database	Aves	Circus ranivorus	African Marsh-Harrier	Vulnerable (SARDB & TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Aves	Coracias garrulus	European Roller	Near Threatened (IUCN)
EKZNW Biodiversity Database	Aves	Elanus caeruleus	Black-shouldered Kite	CITES Appendix II
EKZNW SEA	Aves	Eupodotis caerulescens	Blue Bustard	Near Threatened (IUCN)
EKZNW Biodiversity Database	Aves	Falco amurensis	Amur Falcon, Eastern Red-footed Kestrel	CITES Appendix II
EKZNW Biodiversity Database	Aves	Falco biarmicus	Lanner falcon	Near Threatened (SARDB), CITES Appendix II
EKZNW Biodiversity Database	Aves	Falco naumanni	Lesser Kestrel	Vulnerable (SARDB, IUCN & TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Aves	Falco peregrinus	Peregrine falcon	Near Threatened (SARDB), Vulnerable (TOPS_CATEG) CITES Appendix I&II
EKZNW Biodiversity Database	Aves	Falco rupicoloides	Greater Kestrel	CITES Appendix II
EKZNW Biodiversity Database	Aves	Falco rupicolus	Rock Kestrel	CITES Appendix II
EKZNW Biodiversity Database	Aves	Geocolaptes olivaceus	Ground Woodpecker	Endemic to South Africa, Lesotho or Swaziland

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW Biodiversity Database	Aves	Geronticus calvus	Southern Bald Ibis, Bald Ibis	Vulnerable (SARDB, IUCN & TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Aves	Grus carunculatus	Wattled Crane	Vulnerable, Decreasing (IUCN) KZN Priority Species - May monitor and report on
EKZNW TSCP	Aves	Gypaetus barbatus	Bearded Vulture	Endangered (SARDB & TOPS_CATEG), Least Concern (IUCN), CITES Appendix II
EKZNW TSCP	Aves	Gyps coprotheres	Cape vulture	Vulnerable (SARDB & IUCN), Endangered (TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Aves	Haliaeetus vocifer	African Fish-Eagle	CITES Appendix II
EKZNW SEA	Aves	Hemimacronyx chloris		
EKZNW SEA	Aves	Hirundo atrocaerulea	Blue Swallow	Vulnerable, Decreasing (IUCN) KZN Priority Species - May monitor and report on
EKZNW SEA	Aves	Lioptilus nigricapillus	Bush Blackcap	Near Threatened (SARDB & IUCN) Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Aves	Lophaetus occipitalis	Long-crested Eagle	Near Threatened (SARDB & IUCN)
EKZNW Biodiversity Database	Aves	Melierax gabar	Gabar Goshawk	CITES Appendix II
EKZNW Biodiversity Database	Aves	Milvus migrans	Black Kite,Yellow-billed Kite	CITES Appendix II
EKZNW Biodiversity Database	Aves	Monticola explorator	Sentinel Rock-Thrush	Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Aves	Neotis denhami	Denham's Bustard	Near Threatened, Decreasing (IUCN) KZN Priority Species - May monitor and report on
EKZNW Biodiversity Database	Aves	Oenanthe bifasciata	Buff-streaked Chat	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Aves	Passer domesticus	House Sparrow	Alien invasive to KZN
EKZNW Biodiversity Database	Aves	Ploceus capensis	Cape Weaver	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Aves	Polemaetus bellicosus	Martial eagle	Vulnerable (SARDB & TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Aves	Polyboroides typus	African Harrier-Hawk, Gymnogene	CITES Appendix II
EKZNW Biodiversity Database	Aves	Prinia hypoxantha	Drakensberg Prinia	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Aves	Sagittarius serpentarius	Secretarybird	Near Threatened (SARDB), CITES Appendix II
EKZNW Biodiversity Database	Aves	Schoenicola brevirostris	Broad-tailed Warbler	Near Threatened (SARDB)
EKZNW Biodiversity Database	Aves	Spreo bicolor	Pied Starling	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Aves	Stephanoaetus coronatus	African Crowned Eagle	Near Threatened (SARDB), CITES Appendix II
EKZNW Biodiversity Database	Aves	Strix woodfordii	African Wood-Owl, Wood Owl	CITES Appendix II
EKZNW Biodiversity Database	Aves	Tyto capensis	African Grass-Owl, Grass Owl	Vulnerable (SARDB & TOPS_CATEG) KZN Priority Species - May monitor and report on CITES Appendix II

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW Biodiversity Database	Aves	Vanellus melanopterus	Black-winged Lapwing, Black-winged Plover	Near Threatened (SARDB)
EKZNW TSCP	Diplopoda	Centrobolus tricolor	Three-coloured millipede	
EKZNW TSCP & Biodiversity Database	Diplopoda	Doratogonus meridionalis	Southern black millipede	Vulnerable (SARDB & IUCN) Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP & Biodiversity Database	Diplopoda	Doratogonus montanus	Montane black millipede	Least Concern (IUCN) Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA & TSCP	Diplopoda	Gnomeskelus attemsii	-	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Diplopoda	Gnomeskelus burius	-	
EKZNW SEA	Diplopoda	Gnomeskelus montivagus	-	
EKZNW Biodiversity Database	Diplopoda	Gnomeskelus origensis	-	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Diplopoda	Rhopaleskelus minor	-	
EKZNW Biodiversity Database	Diplopoda	Sphaerotherium mahaium	-	Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Diplopoda	Sphaerotherium perbrincki	-	Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP & Biodiversity Database	Diplopoda	Sphaerotherium tomentosum	-	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP	Diplopoda	Spinotarsus triangulosus	-	
EKZNW SEA	Diplopoda	Ulodesmus simplex	-	
EKZNW SEA & TSCP	Gastropoda	Archachatina / Cochlitoma montistempli		
EKZNW TSCP	Gastropoda	Archachatina / Cochlitoma omissa		
EKZNW SEA	Gastropoda	Archachatina burnupi		
EKZNW TSCP	Gastropoda	Euonyma lymneaeformis		
EKZNW Biodiversity Database	Gastropoda	Fauxulus mcbeanianus	McBean's cask snail	Endemic to KZN;
EKZNW TSCP & Biodiversity Database	Gastropoda	Gulella juxtidens	Milled hunter snail	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Gastropoda	Sheldonia fuscicolor	Montane tail-wagger	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Atheta drakensbergi	Drakensberg rove beetle	Restricted in KZN; Endemic to KZN;
EKZNW Biodiversity Database	Insecta	Atheta natalica	Natal rove beetle	Restricted in KZN; Endemic to KZN;
EKZNW Biodiversity Database	Insecta	Atheta thendeli	Thendele rove beetle	Restricted in KZN; Endemic to KZN;
EKZNW Biodiversity Database	Insecta	Aulacigaster africana	African furrow-bellied fly	Restricted in KZN; Endemic to KZN;
EKZNW Biodiversity Database	Insecta	Bantodemus montanus	Montane darkling beetle	Restricted in KZN; Near-endemic (75-99%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Bittacus bicornis	-	
EKZNW SEA	Insecta	Bittacus sobrinis	-	

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW Biodiversity Database	Insecta	Campichoeta natalensis	Natal campichoetid fly	Restricted in KZN; Endemic to KZN;
EKZNW TSCP	Insecta	Capys penningtoni	Pennington's Protea-butterfly	Vulnerable
EKZNW SEA	Insecta	Charaxes xiphares penningtoni	Pennington's Forest-king Charaxes	Vallerable
EKZNW Biodiversity Database	Insecta	Chirodica fulva	Dusky flea beetle	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Chlorolestes draconicus	Drakensberg sylph	Restricted in N2N, Endernie to South Arrica, Ecsocito of Swaziland
EKZNW SEA & TSCP	Insecta	Chrysoritis oreas	Drakensberg Daisy Copper	Lower Risk/Near Threatened
EKZNW SEA	Insecta	Chrysoritis orientalis	Eastern Opal	ESWET HISTOTICAL TITLE CENTER
EKZNW Biodiversity Database	Insecta	Cophosomorpha angustibasis	Narrow-based ground beetle	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA & Biodiversity Database	Insecta	Damalis femoralis	Spike-femured robberfly	Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Dasophrys dorattina	-	
EKZNW SEA	Insecta	Dasophrys umbripennis	Shaded-winged robberfly	
EKZNW Biodiversity Database	Insecta	Drakensbergena bisulca	Forked-aedeagus Drakensberg leafhopper	Restricted in KZN; Near-endemic (75-99%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Drakensbergena breviata	Short-plated Drakensberg leafhopper	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Drakensbergena deorsuspina	Down-spined Drakensberg leafhopper	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Drakensbergianella rudebecki	Rudebeck's drakensberg flea beetle	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Dromica minutula	Minute tiger beetle	Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Durbania amakosa natalensis	Natal Amakosa Rocksitter	
EKZNW Biodiversity Database	Insecta	Eremidium erectus	Erect-cercus wingless grasshopper	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Eriesthis decora	Beautiful leaf chafer	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Haematopota quathlambia	Drakensberg tabanid fly	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Hilda proteacola	Protea-dwelling hildine bug	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Hipporrhinus oneili	O'neil's horse-nosed weevil	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Hypenestes argothrix	White-haired robber fly	
EKZNW SEA	Insecta	Hypenestes doratina	Drakensberg robberfly	
EKZNW Biodiversity Database	Insecta	Hypenetes stuckenbergi	Stuckenberg's robber fly	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA & TSCP	Insecta	Lepidochrysops pephredo	Estcourt Blue	Vulnerable
EKZNW Biodiversity Database	Insecta	Meneches atropos	Atropos planthopper	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Microligia confinis	Similar grey streak	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Microligia dolosa	Deceitful grey streak	Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Neolophonotus argyphus	Silver-white robberfly	

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW SEA	Insecta	Neolophonotus hirsutus	Hairy robberfly	
EKZNW SEA	Insecta	Neolophonotus io	Riverine robberfly	
EKZNW SEA	Insecta	Neolophonotus leucodiadema	White-crowned robberfly	
EKZNW SEA	Insecta	Neolophonotus natalensis	Natal robberfly	
EKZNW Biodiversity Database	Insecta	Nephrotoma moshesh	Moshesh's cranefly	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Onosandrus bipinnatus	Bipinnate king cricket	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Perisphaeria guillarmodi	Guillarmod's cockroach	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Philoliche marriotti	Marriott's tabanid fly	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Pseudonympha magoides	False Silver-bottom Brown	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Pseudonympha paludis	Paludis Brown	Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Sciobius cultratus	Cultrate snout weevil	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA	Insecta	Stagira dracomontanoides	Southern Drakensberg cicada	
EKZNW Biodiversity Database	Insecta	Stripsipher signatulus	Minutely marked flower chafer	Restricted in KZN; Endemic to KZN;
EKZNW Biodiversity Database	Insecta	Tabanus saxicolus	Rock-dwelling tabanid fly	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Insecta	Thendelecrotona natalica	Natal thendele rove beetle	Restricted in KZN; Endemic to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP	Insecta	Whitea alticeps	High-headed White's grasshopper	
EKZNW TSCP	Insecta	Whitea coniceps	Cone-headed White's grasshopper	
EKZNW Biodiversity Database	Mammalia	Amblysomus hottentotus	Hottentot golden mole	Data Deficient (SARDB)
EKZNW Biodiversity Database	Mammalia	Aonyx capensis capensis	Cape clawless otter	Protected (Ordinance) & CITES Appendix II
EKZNW Biodiversity Database	Mammalia	Caracal caracal	Caracal	CITES Appendix II
EKZNW SEA	Mammalia	Chrysospalyx villosus	Rough-haired golden mole	
EKZNW Biodiversity Database	Mammalia	Galerella pulverulenta	Cape grey mongoose	Restricted in KZN
EKZNW Biodiversity Database	Mammalia	Ictonyx striatus	Striped polecat	CITES Appendix III
EKZNW Biodiversity Database	Mammalia	Leptailurus serval serval	Serval	Near Threatened (SARDB), Protected (Ordinance) CITES Appendix II
EKZNW Biodiversity Database	Mammalia	Lutra maculicollis maculicollis	Spotted-necked otter	Near Threatened (SARDB), Protected (Ordinance) CITES Appendix II
EKZNW Biodiversity Database	Mammalia	Oreotragus oreotragus transvaalensis	Klipspringer	Lower Risk, conservation dependant (IUCN)
EKZNW Biodiversity Database	Mammalia	Pelea capreolus	Grey rhebuck	KZN Priority Species - May monitor and report on Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Mammalia	Poecilogale albinucha	African striped weasel	Data Deficient (SARDB)
EKZNW Biodiversity Database	Mammalia	Redunca fulvorufula fulvorufula	Mountain reedbuck	Lower Risk, conservation dependant (IUCN)

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW Biodiversity Database	Osteichthyes	Labeobarbus natalensis	KwaZulu-Natal yellowfish	Endemic to KZN
EKZNW Biodiversity Database	Osteichthyes	Oncorhynchus mykiss	Rainbow trout	Alien invasive to KZN
EKZNW SEA	Plantae, Medicinal	Alepidea amatymbica	-	Vulnerable (IUCN)
EKZNW TSCP & Biodiversity Database	Plantae	Aloe maculata	Soap Aloe, White Spotted Aloe	Not Evaluated (SARDB), Least Concern (IUCN), Controlled (Ordinance), CITES Appendix II
EKZNW Biodiversity Database	Plantae	Artemisia afra	Wormwood	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Aspidonepsis reenensis	-	Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Aster bakeranus	Wild Aster	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Berkheya draco	-	Rare (SARDB), Protected (Ordinance)
EKZNW SEA	Plantae	Bowiea volubilis	-	Vulnerable
EKZNW Biodiversity Database	Plantae	Brownleea macroceras	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Brownleea parviflora	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Calodendrum capense	Cape Chestnut	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Ceratotheca triloba	Wild Foxglove	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Clematis brachiata	Old Man's Beard, Traveller's Joy	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Commelina africana var. africana	Yellow Wandering Jew, Yellow Commelina	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW SEA, TSCP & Biodiversity Database	Plantae	Crocosmia pearsei	-	Rare (SARDB & IUCN), Specially Protected (Ordinance) KZN Priority Species – Nice to monitor and report on
EKZNW Biodiversity Database	Plantae	Cucumis zeyheri	Wild Cucumber	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae, Medicinal	Curtisia dentata	Assegaai	Near Threatened (SARDB & IUCN), Protected (Ordinance) Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Plantae	Dioscorea sylvatica var. sylvatica	Forest Elephant's Footl, Wild Yam	Lower Risk, near threatened (SARDB)
EKZNW Biodiversity Database	Plantae	Disa dracomontana	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Disa pulchra	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Disa stachyoides	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Disperis cooperi	-	Specially Protected (Ordinance), CITES Appendix II
EKZNW Biodiversity Database	Plantae	Disperis fanniniae	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Disperis lindleyana	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Disperis tysonii	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Dracosciadium saniculifolium	-	Rare (SARDB), Protected (Ordinance), Endemic to KZN
EKZNW Biodiversity Database	Plantae	Encephalartos ghellinckii	-	Vulnerable (SARDB & IUCN), Protected (Ordinance) KZN Priority Species – Nice to monitor and report on Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Plantae	Eriosema salignum	Brown Bonnet,Narrow-leaved Salignum	Not Evaluated (SARDB), Controlled (Ordinance)

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW SEA	Plantae, Medicinal	Eucomis autumnalis	-	Declining (IUCN)
EKZNW Biodiversity Database	Plantae	Eulophia aculeata aculeata	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Eulophia leontoglossa	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Eulophia streptopetala	-	Vulnerable (SARDB), Protected (Ordinance) CITES Appendix II
EKZNW Biodiversity Database	Plantae	Euphorbia clavarioides	Lion's Spoor	Not Evaluated (SARDB), Controlled (Ordinance) (Ordinance) CITES Appendix II
EKZNW Biodiversity Database	Plantae	Euphorbia epicyparissias var. epicyparissias	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Euphorbia gueinzii	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Galtonia regalis	Royal Berg Lily	Specially Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Gerbera piloselloides	Small Yellow Gerbera	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Glumicalyx lesuticus	-	Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Gnidia baurii	-	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Graderia scabra	Wild Penstemon,Pink Ground-Bells	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Habenaria chlorotica	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Habenaria clavata	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Habenaria cornuta	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Habenaria dregeana	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Habenaria lithophila	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Helichrysum album	-	Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Helichrysum aureonitens	Golden Everlasting	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Helichrysum tenax var. pallidum	-	Rare (SARDB), Protected (Ordinance) Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Plantae	Hoffmannseggia sandersonii	-	Lower Risk, least concern (SARDB), Protected (Ordinance) Endemic to KZN
EKZNW Biodiversity Database	Plantae	Huttonaea fimbriata	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Huttonaea grandiflora	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Huttonaea pulchra	-	CITES Appendix II
EKZNW TSCP	Plantae	Kniphofia albomontana	-	Least Concern (IUCN)
EKZNW Biodiversity Database	Plantae	Kniphofia angustifolia	Grass-leaved Poker	Specially Protected (Ordinance), Endemic to KZN
EKZNW TSCP	Plantae	Kniphofia brachystachya	-	Least Concern (IUCN)
EKZNW TSCP	Plantae	Kniphofia breviflora	-	Least Concern (IUCN)
EKZNW TSCP	Plantae	Kniphofia latifolia	-	Endangered (IUCN)

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
				KZN Priority Species – Nice to monitor and report on
EKZNW Biodiversity Database	Plantae	Ledebouria ovatifolia	-	Not Evaluated (SARDB), Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Lotononis corymbosa	-	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Manulea florifera	-	Near Threatened (SARDB), Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Ornithogalum sephtonii	-	Specially Protected (Ordinance) Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Plantae	Pittosporum viridiflorum	Cheesewood,Kasuur	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Polygala hottentotta	Small Purple Broom	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Polygala praticola	-	Data Deficient (SARDB), Protected (Ordinance) KZN Priority Species – Nice to monitor and report on
EKZNW SEA	Plantae	Protea nubigena	-	Critically Endangered (IUCN) KZN Priority Species - Must monitor and report on
EKZNW Biodiversity Database	Plantae	Pterygodium hastatum	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Ranunculus multifidus	Common Buttercup	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Rhoicissus digitata	Baboon Grape	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Satyrium longicauda var. jacottetianum	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Satyrium neglectum	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Satyrium sp.	-	KZN Priority Species - Must monitor and report on CITES Appendix II
EKZNW Biodiversity Database	Plantae	Schizoglossum stenoglossum flavum	Simple Split Tongue	Protected (Ordinance), Endemic to KZN
EKZNW SEA & Biodiversity Database	Plantae	Scilla natalensis	Large blue scilla, blue hyacinth,Blue Squill	Vulnerable (SARDB), Specially Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Selago monticola	-	Protected (Ordinance)
EKZNW Biodiversity Database	Plantae	Senecio saniensis	-	Rare (SARDB), Protected (Ordinance), Endemic to KZN
EKZNW SEA	Plantae	Stachys rivularis	-	Data deficient KZN Priority Species – Nice to monitor and report on
EKZNW Biodiversity Database	Plantae	Stenoglottis fimbriata	-	CITES Appendix II
EKZNW Biodiversity Database	Plantae	Striga asiatica	Witchweed	Not Evaluated (SARDB), Controlled (Ordinance)
EKZNW Biodiversity Database	Plantae	Tulbaghia natalensis	Sweet Wild Garlic,Pink Wild Garlic	Not Evaluated (SARDB), Specially Protected (Ordinance)
EKZNW TSCP & Biodiversity Database	Reptilia	Afroedura nivaria	Mountain flat gecko, Drakensberg Rock Gecko	Least Concern (IUCN) Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Bitis atropos	Berg adder	Restricted in KZN
EKZNW TSCP & Biodiversity Database	Reptilia	Bradypodion dracomontanum	Drakensberg Dwarf Chameleon	Least Concern (IUCN) & CITES Appendix II
EKZNW SEA	Reptilia	Bradypodion thamnobates	Natal Midland Dwarf Chamaeleon	Lower Risk, near threatened, needs updating (IUCN)
EKZNW Biodiversity Database	Reptilia	Chamaesaura anguina anguina	Cape grass lizard	Endemic to South Africa, Lesotho or Swaziland

Data Source	Group	Scientific Name	Common Name	Vulnerability Status
EKZNW Biodiversity Database	Reptilia	Duberria lutrix lutrix	Common slug-eater	Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Lamprophis fuscus	Yellow-bellied house snake	Rare (SARDB), Lower Risk, near threatened (IUCN) Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Lamprophis inornatus	Olive house snake	Endemic to South Africa, Lesotho or Swaziland
EKZNW SEA & TSCP	Reptilia	Montaspis gilvomaculata	Cream-spotted mountain snake	
EKZNW Biodiversity Database	Reptilia	Philothamnus natalensis occidentalis	Western Natal green snake	Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP & Biodiversity Database	Reptilia	Pseudocordylus langi	Lang's crag lizard	Restricted (SARDB), Lower Risk, near threatened (IUCN) Restricted in KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW TSCP	Reptilia	Pseudocordylus melanotus subviridis	-	
EKZNW Biodiversity Database	Reptilia	Pseudocordylus spinosus	Spiny crag lizard	Restricted (SARDB), Lower Risk, near threatened (IUCN) Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Tetradactylus breyeri	Breyer's long-tailed seps	Rare (SARDB) Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Tropidosaura cottrelli	Cottrell's mountain lizard	Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Tropidosaura essexi	Essex's mountain lizard	Restricted in KZN; Near-endemic (50-75%) to KZN; Endemic to South Africa, Lesotho or Swaziland
EKZNW Biodiversity Database	Reptilia	Varanus niloticus	Water monitor	CITES Appendix II