

Avifauna Compliance Statement

REMOVAL AND REPLACEMENT OF VARIOUS
EXISTING CULVERTS AND PIPES IN THE GARDEN
ROUTE, WESTERN CAPE

1 REPORT INFORMATION

PROJECT TITLE: PROPOSED DEVELOPMENT AT CULVERTS AND PIPES

PRECINCT, BITOU LOCAL MUNICIPALITY, WESTERN CAPE

PROVINCE

STUDY NAME: Garden Route Avifauna- Bitou

COMPILED BY: MORA Ecological Services (Pty) Ltd

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SACNASP Reg. No.: 009509

DATE OF REPORT: 13 November 2023

REPORT STATUS: Draft Report

REPORT NUMBER: GRAV/MORA_002



2 EXECUTIVE SUMMARY

Background

Enviroworks has been appointed as the Environmental Assessment Practitioner to conduct the Environmental Impact Assessment process for the proposed removal and replacement of the existing culvert and pipes on site five, (DR 1791).

Following the results of the screening tool report obtained from the Department of Forestry, Fisheries and Environment, about three bird species were identified as being of high sensitivity. This triggered the need for an avifaunal assessment.

However, due to the existing infrastructure and proposed infrastructure, an avifaunal compliance statement was deemed necessary for this project.

MORA Ecological Services (Pty) Ltd was appointed as the independent specialist to conduct the avifauna assessment.

Fieldwork was conducted on 29th of October 2023.

Findings

- No sensitive avifaunal species were observed.
- No severe avifaunal impacts are expected from the proposed project.

Conclusions

- The proposed removal and replacement of culverts and pipes will be located on already disturbed areas, and anticipated avifaunal impacts are predicted to be Low.
- None of the identified sensitive bird species from DFFE screening tool report were observed on site.
- No habitats within the proposed culverts upgrade footprint are considered sensitive.

Recommendations

- Contractors should adhere to the recommendations provided within the EMPr.
- Construction activities should be restricted to the project area.
- No fires should be made around the site.
- It is the opinion of the specialist that this application be considered.



3 REVIEW & APPROVAL

Name	Title	Signature	Date
Mokgatla Molepo	Avifaunal Specialist & Author (MORA Ecological Services)	Produge	13/11/2023
Megan Smith	Environmental Assessment Practitioner (EnviroWorks)		

4 ACKNOWLEDGMENTS

The authors would like to acknowledge and thank Enviroworks and other role players for their assistance with project information.



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5 BACKGROUND

5.1 Project overview

Enviroworks has been appointed as the Environmental Assessment Practitioner to conduct the Environmental Impact Assessment process for the proposed removal and replacement of the existing culvert and pipes on site five. Three bird species which are considered highly sensitive were identified by the Department of Forestry, Fisheries and Environment (DFFE) Screening Tool Report.

MORA Ecological Services (Pty) Ltd was then appointed as the independent specialist to conduct a brief avifauna survey and compile a compliance statement.

Fieldwork was conducted on the 29th of October 2023.

5.2 Purpose of the Study

The purpose of the study was to determine any sensitive bird species and their habitats around the proposed removal and replacement of culverts and pipes.

5.2 Assumptions and Limitations

The assumptions and limitations for the assessment are as follows:

- All information regarding the proposed project and related activities as provided by the Client are taken to be accurate.
- Fieldwork was limited to the proposed project footprint.



6 Desktop Assessment

All previous specialist studies, DFFE Screening Tool Report and SABAP2 data related to the project were utilised as background information for the study, prior to conducting the fieldwork.

Sensitive avifaunal species that are likely to occur around the site (DFFE Screening Tool, 2023).

Table 1: Highly Sensitive Species

Species	Common Name	Red Data	Likelihood of occurrence
Stephanoaetus coronatus	Crowned Eagle	Vulnerable	Low
	Denham's		
Neotis denhami	Bustard	Vulnerable	Very Low
	African Marsh		
Circus ranivorus	Harrier	Endangered	Low

6.1 Study Site Location

The site is located on Stofpad road, within Bitou Local Municipality in the Western Cape (Figure 1). In terms of conservation plan the site falls within Critical Biodiversity Area, (CBA).

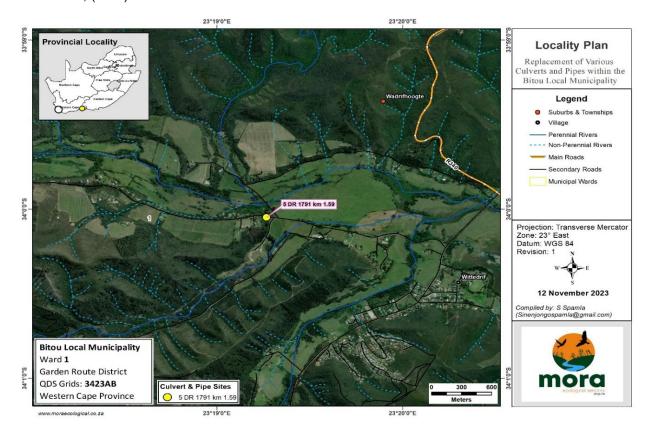


Figure 1: Study Site.



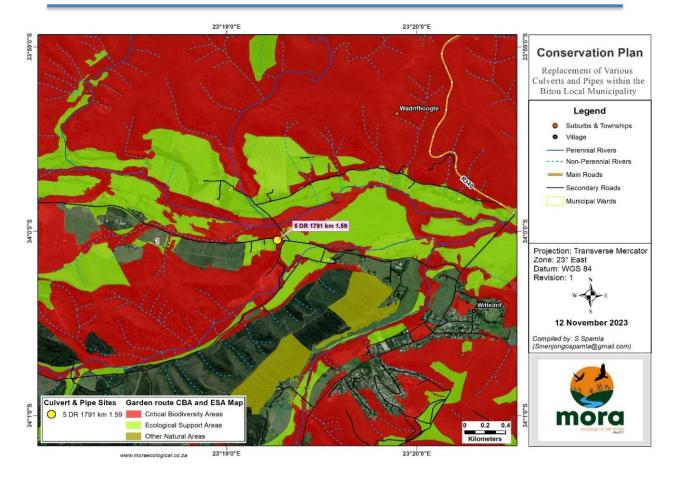


Figure 2: Conservation plan map.

6.2 Fieldwork

On site fieldwork was conducted in October 2023. Random walk through was undertaken around the existing and proposed culvert and pipes.

Duration: 01 hour

Season: Late Spring

The site falls within pentad 3400_2315 of SABAP2.

During the fieldwork, several bird species were observed and recorded (Table 2).

Table 2. Recorded species on site.

Common group	Common species	Genus	Species
Boubou	Southern	Laniarius	ferrugineus
Goose	Egyptian	Alopochen	aegyptiaca
Bulbul	Cape	Pycnonotus	capensis
Crow	Pied	Corvus	albus



Bitou: Avifauna Compliance

Dove	Cape Turtle	Streptopelia	capicola
Dove	Laughing	Spilopelia	senegalensis
Dove	Red-eyed	Streptopelia	semitorquata
Dove	Rock	Columba	livia
Cuckoo	Black	Cuculus	clamosus
Cuckoo	Red-chested	Cuculus	solitarius
Ibis	African Sacred	Threskiornis	aethiopicus
Ibis	Hadada	Bostrychia	hagedash
Flycatcher	Blue-mantled Crested	Trochocercus	cyanomelas



7 CONCLUSIONS & RECOMMENDATIONS

The conclusions of the study and fieldwork are as follows:

7.1 Conclusions

- The proposed culverts and pipes upgrades will be located on already disturbed areas, and anticipated avifaunal impacts are predicted to be Very Low.
- None of the identified sensitive bird species from DFFE screening tool report were observed on site.
- No habitats within the proposed culverts and pipes upgrade footprint are considered sensitive.

7.2 Recommendations

- The proposed Culverts and pipes upgrades will be in already disturbed areas, and anticipated avifaunal impacts are predicted to be Very Low.
- None of the identified sensitive bird species from DFFE screening tool report were observed on site.
- No habitats within the proposed Culverts and pipes upgrade footprint are considered sensitive.
- Contractor should adhere to the recommendations provided within the EMPr.
- Construction activities should be restricted to the project area.
- No fires should be made around the site.
- It is the opinion of the specialist that this application be considered.



8 REFERENCES

- Low, A.B. & G. Rebelo (eds). 1998. Vegetation of South Africa, Lesotho and Swaziland. Dept. Environmental Affairs and Tourism, Pretoria.
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- Mucina, L. & M.C. Rutherford (eds). 2006. The vegetation of South Africa, Lesotho and Swaziland. SANBI, Pretoria.
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- van Wyk, A-E. & S. Malan. 1988. Field guide to the wild flowers of the Witwatersrand and Pretoria region. Struik, Cape Town.

9 EXPERTISE OF THE SPECIALIST

9.1 Expertise of Author

Qualifications & Expertise in: Avifauna, Terrestrial Ecology, Aquatic Ecology.

- MSc); BSc Hons, BSc.
- Registered with South African Council for Natural Scientific Professions (SACNASP) since 1991. Registration number: 009509
- Deputy Chairperson for SACNASP Professional Advisory Committee.
- Member of Birds and Renewable Energy Specialist Group
- Has conducted hundreds of field investigations and compiled over 50 of technical specialist reports for EIAs,
- Projects involved in include power lines, roads, quarries, housing developments, mines, solar and wind farms.

9.2 Declaration



In terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations (as amended on 7 April 2017).

I, Mokgatla Molepo, do hereby declare that I:

- Act as an independent specialist in compiling this report;
- Do not have any financial interests, or stand to gain in any way in the undertaking of this activity, other than remuneration for work performed;
- Do not have, nor will have, any vested interest in the proceeding activity or project;
- Have no, neither will engage in, conflicting interests in the undertaking of this activity;
- Undertake to disclose, to the competent authority, any material information that has, or may have, the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required; and
- Will provide competent authority access to my information regarding the report and investigations, whether such information is favorable to the applicant or not.



10 APPENDICES

10.1 SABAP2

10.	I SABAPZ			
Ref	Common_group	Common_species	Genus	Species
722		Bokmakierie	Telophorus	zeylonus
72		Hamerkop	Scopus	umbretta
637		Neddicky	Cisticola	fulvicapilla
105		Secretarybird	Sagittarius	serpentarius
622	Apalis	Bar-throated	Apalis	thoracica
431	Barbet	Black-collared	Lybius	torquatus
672	Batis	Cape	Batis	capensis
808	Bishop	Southern Red	Euplectes	orix
810	Bishop	Yellow	Euplectes	capensis
709	Boubou	Southern	Laniarius	ferrugineus
546	Brownbul	Terrestrial	Phyllastrephus	terrestris
543	Bulbul	Cape	Pycnonotus	capensis
717	Bushshrike	Olive	Chlorophoneus	olivaceus
219	Bustard	Denham's	Neotis	denhami
154	Buzzard	Common	Buteo	buteo
155	Buzzard	Forest	Buteo	trizonatus
152	Buzzard	Jackal	Buteo	rufofuscus
627	Camaroptera	Green-backed	Camaroptera	brachyura
863	Canary	Brimstone	Crithagra	sulphurata
857	Canary	Cape	Serinus	canicollis
858	Canary	Forest	Crithagra	scotops
866	Canary	Yellow	Crithagra	flaviventris
570	Chat	Familiar	Oenanthe	familiaris
638	Cisticola	Grey-backed	Cisticola	subruficapilla
646	Cisticola	Levaillant's	Cisticola	tinniens
634	Cisticola	Wing-snapping	Cisticola	ayresii
629	Cisticola	Zitting	Cisticola	juncidis
212	Coot	Red-knobbed	Fulica	cristata
50	Cormorant	Reed	Microcarbo	africanus
47	Cormorant	White-breasted	Phalacrocorax	lucidus
4131	Coucal	Burchell's	Centropus	burchellii
203	Crake	Black	Zapornia	flavirostra
216	Crane	Blue	Grus	paradisea
523	Crow	Cape	Corvus	capensis
522	Crow	Pied	Corvus	albus
350	Cuckoo	African Emerald	Chrysococcyx	cupreus
344	Cuckoo	Black	Cuculus	clamosus
352	Cuckoo	Diederik	Chrysococcyx	caprius
351	Cuckoo	Klaas's	Chrysococcyx	klaas

343	Cuckoo	Red-chested	Cuculus	solitarius
516	Cuckooshrike	Grey	Ceblepyris	caesius
52	Darter	African	Anhinga	rufa
316	Dove	Cape Turtle	Streptopelia	capicola
317	Dove	Laughing	Spilopelia	senegalensis
314	Dove	Red-eyed	Streptopelia	semitorquata
940	Dove	Rock	Columba	livia
517	Drongo	Fork-tailed	Dicrurus	adsimilis
95	Duck	African Black	Anas	sparsa
103	Duck	Maccoa	Oxyura	тассоа
104	Duck	White-backed	Thalassornis	leuconotus
100	Duck	White-faced Whistling	Dendrocygna	viduata
96	Duck	Yellow-billed	Anas	undulata
149	Eagle	African Fish	Haliaeetus	vocifer
139	Eagle	Booted	Hieraaetus	pennatus
138	Eagle	Long-crested	Lophaetus	occipitalis
368	Eagle-Owl	Spotted	Bubo	africanus
58	Egret	Great	Ardea	alba
59	Egret	Little	Egretta	garzetta
61	Egret	Western Cattle	Bubulcus	ibis
114	Falcon	Lanner	Falco	biarmicus
113	Falcon	Peregrine	Falco	peregrinus
707	Fiscal	Southern	Lanius	collaris
655	Flycatcher	African Dusky	Muscicapa	adusta
682	Flycatcher	African Paradise	Terpsiphone	viridis
680	Flycatcher	Blue-mantled Crested	Trochocercus	cyanomelas
665	Flycatcher	Fiscal	Melaenornis	silens
10004	Goose	Domestic	Anser	anser
89	Goose	Egyptian	Alopochen	aegyptiaca
88	Goose	Spur-winged	Plectropterus	gambensis
160	Goshawk	African	Accipiter	tachiro
618	Grassbird	Cape	Sphenoeacus	afer
6	Grebe	Little	Tachybaptus	ruficollis
551	Greenbul	Sombre	Andropadus	importunus
192	Guineafowl	Helmeted	Numida	meleagris
287	Gull	Kelp	Larus	dominicanus
171	Harrier-Hawk	African	Polyboroides	typus
69	Heron	Black-crowned Night	Nycticorax	nycticorax
55	Heron	Black-headed	Ardea	melanocephala
54	Heron	Grey	Ardea	cinerea
57	Heron	Purple	Ardea	purpurea
441	Honeyguide	Scaly-throated	Indicator	variegatus
418	Ноорое	African	Upupa	africana

81	Ibis	African Sacred	Threskiornis	aethiopicus
83	Ibis	Glossy	Plegadis	falcinellus
84	Ibis	Hadada	Bostrychia	hagedash
228	Jacana	African	Actophilornis	africanus
123	Kestrel	Rock	Falco	rupicolus
402	Kingfisher	Brown-hooded	Halcyon	albiventris
395	Kingfisher	Giant	Megaceryle	maxima
394	Kingfisher	Pied	Ceryle	rudis
130	Kite	Black-winged	Elanus	caeruleus
129	Kite	Yellow-billed	Milvus	aegyptius
243	Lapwing	Black-winged	Vanellus	melanopterus
245	Lapwing	Blacksmith	Vanellus	armatus
242	Lapwing	Crowned	Vanellus	coronatus
488	Lark	Red-capped	Calandrella	cinerea
703	Longclaw	Cape	Macronyx	capensis
509	Martin	Brown-throated	Riparia	paludicola
506	Martin	Rock	Ptyonoprogne	fuligula
210	Moorhen	Common	Gallinula	chloropus
392	Mousebird	Red-faced	Urocolius	indicus
390	Mousebird	Speckled	Colius	striatus
373	Nightjar	Fiery-necked	Caprimulgus	pectoralis
521	Oriole	Black-headed	Oriolus	larvatus
172	Osprey	Western	Pandion	haliaetus
312	Pigeon	African Olive	Columba	arquatrix
311	Pigeon	Speckled	Columba	guinea
692	Pipit	African	Anthus	cinnamomeus
10877	Pipit	Nicholson's	Anthus	nicholsoni
694	Pipit	Plain-backed	Anthus	leucophrys
237	Plover	Kittlitz's	Charadrius	pecuarius
238	Plover	Three-banded	Charadrius	tricollaris
102	Pochard	Southern	Netta	erythrophthalma
4139	Prinia	Karoo	Prinia	maculosa
712	Puffback	Black-backed	Dryoscopus	cubla
189	Quail	Common	Coturnix	coturnix
524	Raven	White-necked	Corvus	albicollis
589	Robin	White-starred	Pogonocichla	stellata
581	Robin-Chat	Cape	Cossypha	caffra
578	Robin-Chat	Chorister Robin-Chat	Cossypha	dichroa
412	Roller	European	Coracias	garrulus
				pristoptera
511	Saw-wing	Black (Southern Africa)	Psalidoprocne	holomelas
867	Seedeater	Streaky-headed	Crithagra	gularis
90	Shelduck	South African	Tadorna	cana

94	Shoveler	Cape	Spatula	smithii
855	Siskin	Cape	Crithagra	totta
250	Snipe	African	Gallinago	nigripennis
786	Sparrow	Cape	Passer	melanurus
784	Sparrow	House	Passer	domesticus
4142	Sparrow	Southern Grey-headed	Passer	diffusus
159	Sparrowhawk	Black	Accipiter	melanoleucus
158	Sparrowhawk	Little	Accipiter	minullus
85	Spoonbill	African	Platalea	alba
181	Spurfowl	Cape	Pternistis	capensis
188	Spurfowl	Red-necked	Pternistis	afer
740	Starling	Black-bellied	Notopholia	corusca
733	Starling	Common	Sturnus	vulgaris
745	Starling	Red-winged	Onychognathus	morio
576	Stonechat	African	Saxicola	torquatus
80	Stork	White	Ciconia	ciconia
749	Sugarbird	Cape	Promerops	cafer
772	Sunbird	Amethyst	Chalcomitra	amethystina
771	Sunbird	Collared	Hedydipna	collaris
758	Sunbird	Greater Double-collared	Cinnyris	afer
765	Sunbird	Grey	Cyanomitra	veroxii
751	Sunbird	Malachite	Nectarinia	famosa
		Southern Double-		
760	Sunbird	collared	Cinnyris	chalybeus
493	Swallow	Barn	Hirundo	rustica
502	Swallow	Greater Striped	Cecropis	cucullata
503	Swallow	Lesser Striped	Cecropis	abyssinica
498	Swallow	Pearl-breasted	Hirundo	dimidiata
495	Swallow	White-throated	Hirundo	albigularis
380	Swift	African Black	Apus	barbatus
387	Swift	African Palm	Cypsiurus	parvus
386	Swift	Alpine	Tachymarptis	melba
378	Swift	Common	Apus	apus
385	Swift	Little	Apus	affinis
383	Swift	White-rumped	Apus	caffer
97	Teal	Red-billed	Anas	erythrorhyncha
275	Thick-knee	Spotted	Burhinus	capensis
1105	Thrush	Olive	Turdus	olivaceus
4133	Turaco	Knysna	Tauraco	corythaix
686	Wagtail	Cape	Motacilla	capensis
611	Warbler	Knysna	Bradypterus	sylvaticus
604	Warbler	Lesser Swamp	Acrocephalus	gracilirostris
609	Warbler	Little Rush	Bradypterus	baboecala

-		•		
612	Warbler	Victorin's	Cryptillas	victorini
		Yellow-throated		
671	Warbler	Woodland	Phylloscopus	ruficapilla
843	Waxbill	Common	Estrilda	astrild
825	Waxbill	Swee	Coccopygia	melanotis
799	Weaver	Cape	Ploceus	capensis
803	Weaver	Southern Masked	Ploceus	velatus
1172	White-eye	Cape	Zosterops	virens
846	Whydah	Pin-tailed	Vidua	macroura
419	Wood Hoopoe	Green	Phoeniculus	purpureus
448	Woodpecker	Knysna	Campethera	notata
452	Woodpecker	Olive	Dendropicos	griseocephalus