

# THE PROPOSED ESTABLISHMENT OF AN APPROXIMATELY 13HA FORMAL HOUSING DEVELOPMENT ON SITE 2 (DAKOTA ROAD NORTH) IN THE TOWNSHIP OF PABALLELO, UPINGTON



## DRAFT BASIC ASSESSMENT REPORT:

June 2023

# TABLE OF CONTENTS

SECTION A: ACTIVITY INFORMATION.....	3
1) ACTIVITY DESCRIPTION .....	3
a) Describe the project associated with the listed activities applied for .....	3
b. Provide a detailed description of the listed activities associated with the project as applied for .....	4
2) FEASIBLE AND REASONABLE ALTERNATIVES .....	5
a) Site alternatives .....	6
b) Layout alternatives.....	7
c) Design alternatives .....	7
d) Other alternatives (e.g. scheduling, demand, input and scale alternatives) .....	7
e) No-go alternative.....	7
3) PHYSICAL SIZE OF THE ACTIVITY.....	8
a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):.....	8
b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur): .....	8
4) SITE ACCESS.....	8
5) LOCALITY MAP .....	8
6) LAYOUT/ROUTE PLAN .....	9
7) .....	9
8) SITE PHOTOGRAPHS.....	9
9) FACILITY ILLUSTRATION.....	10
10) ACTIVITY MOTIVATION.....	10
11) List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable.....	15
12) WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT.....	16
a) Solid waste management .....	16
b) Liquid effluent .....	17
c) Emissions into the atmosphere .....	17
d) Waste permit.....	18
e) Generation of noise .....	18
13) WATER USE .....	18
14) ENERGY EFFICIENCY .....	18
SECTION B: SITE/AREA/PROPERTY DESCRIPTION .....	19
1) GRADIENT OF THE SITE .....	19
2) LOCATION IN LANDSCAPE .....	20
3) GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE.....	20
4) GROUNDCOVER .....	20
5) SURFACE WATER.....	21
6) LAND USE CHARACTER OF SURROUNDING AREA.....	21
7) CULTURAL/HISTORICAL FEATURES.....	23
8) SOCIO-ECONOMIC CHARACTER .....	23
a) Local Municipality .....	23
b) Socio-economic value of the activity .....	24
9) BIODIVERSITY .....	25

a)	Indicate the applicable biodiversity planning categories of all areas on-site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category .....	25
b)	Indicate and describe the habitat condition on site (will be described once assessments have been received) .....	25
c)	Complete the table to indicate: .....	26
d)	Please describe the vegetation type and/or aquatic ecosystem present on-site, including any important biodiversity features/information identified on-site (e.g. threatened species and special habitats) .....	26
SECTION C:	PUBLIC PARTICIPATION .....	27
1)	ADVERTISEMENT AND NOTICE .....	27
2)	DETERMINATION OF APPROPRIATE MEASURES .....	27
3)	ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES (Please See Appendix E) .....	28
4)	COMMENTS AND RESPONSES REPORT .....	28
5)	AUTHORITY PARTICIPATION .....	28
6)	CONSULTATION WITH OTHER STAKEHOLDERS .....	28
SECTION D:	IMPACT ASSESSMENT .....	29
1)	IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES .....	29
2)	ENVIRONMENTAL IMPACT STATEMENT .....	31
SECTION E.	RECOMMENDATION OF EAP .....	34
SECTION F:	APPENDICES .....	35

**THE PROPOSED ESTABLISHMENT OF A FORMAL HOUSING DEVELOPMENT  
ON SITE 2 (DAKOTA ROAD NORTH) IN THE TOWNSHIP OF PABALLELO,  
UPINGTON**

Project applicant:	Dawid kruper Towers South Africa (Pty) Ltd		
Business reg. no. /ID. no.:			
Contact person:	Thys Neels		
Postal address:	Private Bag X6006 <b>UPINGTON</b> 8800		
Telephone:	(054) 338 7058	Cell:	071 438 2744
E-mail:	thys.neels@dkm.gov.za	Fax:	N/A

Prepared by:

<b>Environmental Assessment Practitioner/ Firm:</b>	EnviroAfrica CC		
<b>Business reg. no. /ID. no.:</b>	CK 97 46008/23		
<b>Contact person:</b>	Bernard de Witt		
<b>Postal address:</b>	P. O. Box 5367, <b>HELDERBERG</b> 7135 (Somerset West)		
<b>Telephone:</b>	021 851 1616	Cell:	+27 (0)82 448 9991
<b>E-mail:</b>	<a href="mailto:bernard@enviroafrica.co.za">bernard@enviroafrica.co.za</a>	Fax:	+27 (0)86 512 0154

	(For official use only)
<b>File Reference Number:</b>	
<b>Application Number:</b>	
<b>Date Received:</b>	

---

**Basic Assessment Report in terms of the Environmental Impact Assessment Regulations, 2014 (as amended), promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended**

**Kindly note that:**

- This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 and is meant to streamline applications. Please make sure that it is the report used by the competent authority for the activity that is being applied for.
- It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
- The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
- Where applicable **tick** the boxes that are applicable in the report.
- An incomplete report may be returned to the applicant for revision.
- The use of “not applicable” in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
- This report must be handed in at the offices of the relevant competent authority as determined by each authority.
- No faxed or e-mailed reports will be accepted.
- The signature of the EAP on the report must be original.
- The report must be compiled by an independent environmental assessment practitioner.
- Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this request report, during any stage of the application process.
- A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
- Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

## SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section? 

YES	NO
-----	----

  
If YES, please complete the form titled "Details of specialist and declaration of interest" for the specialist appointed and attach it in Appendix I.

### 1) ACTIVITY DESCRIPTION

#### a) Describe the project associated with the listed activities applied for

The development proposal entails the establishment of a formal housing development on Paballelo Site 2, *i.e.*, Dakota Road North in the township of Paballelo, Upington. The process of establishing the formal housing development on Paballelo Site 2 includes *inter alia*, the establishment of formal housing, installing of water supply, wastewater disposal, stormwater management, formal road network, electricity supply and other relevant infrastructure as well as solid waste collection services.

Access the proposed site exists.

b. Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN 327, 325 and 324, EIA Regulations (2014 as amended)	Description of project activity
<b>GN 324 Listing Notice 1</b>	
<p><b>Item 9, i.e.,</b> “The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of water or storm water—  <i>(i) with an internal diameter of 0,36 metres or more; or</i>  <i>(ii) with a peak throughput of 120 litres per second or more;</i>  <i>excluding where—</i>  <i>(a) such infrastructure is for bulk transportation of water or storm water or storm water drainage inside a road reserve or railway line reserve; or</i>  <i>(b) where such development will occur within an urban area”.</i></p>	<p>The proposed formal housing development is located outside of the urban area, i.e., outside of the formal built-up part of the town. In addition, the bulk stormwater transportation infrastructure that will provided for the housing development exceeds 1000m in length and will have an internal diameter of at least 0.36m.</p>
<p><b>Item 10, i.e.,</b> “The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes –  <i>(i) with an internal diameter of 0,36 metres or more; or</i>  <i>(ii) with a peak throughput of 120 litres per second or more;</i>  <i>excluding where—</i>  <i>(a) such infrastructure is for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes inside a road reserve or railway line reserve; or</i>  <i>(b) where such development will occur within an urban area”.</i></p>	<p>The proposed formal housing development is located outside of the urban area, i.e., outside of the formal built-up part of the town. In addition, the bulk wastewater transportation infrastructure that will provided for the housing development exceeds 1000m in length and will have an internal diameter of at least 0.36m.</p>
<p><b>Item 11, i.e.,</b> “The development of facilities or infrastructure for the transmission and distribution of electricity—  <i>(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or</i>  <i>(ii) inside urban areas or industrial complexes with a capacity of 275 kilovolts or more;</i>  <i>excluding the development of bypass infrastructure for the transmission and distribution of electricity where such bypass infrastructure is —</i>  <i>(a) temporarily required to allow for maintenance of existing infrastructure;</i>  <i>(b) 2 kilometres or shorter in length;</i>  <i>(c) within an existing transmission line servitude; and</i>  <i>(d) will be removed within 18 months of the commencement of development”.</i></p>	<p>The proposed site for the formal housing development is located outside of the urban area, i.e., outside of the formal built-up part of the town. In addition the electricity transmission and distribution infrastructure required for the proposed development will have a capacity of more than 33 kilovolts but less than 275 kilovolts. .</p>
<p><b>Item 27, i.e.,</b> “The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for—  <i>(i) the undertaking of a linear activity; or</i></p>	<p>The proposed establishment of the approa formal housing development on Paballelo Site 2 requires that more than 1ha of indigenous vegetation be cleared.</p>

<p><i>(ii) maintenance purposes undertaken in accordance with a maintenance management plan”.</i></p>	
<p><b>Item 28</b> “<i>Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development:</i>  <i>(i) will occur inside an urban area, where the total land to be developed is bigger than 5 hectares; or</i>  <i>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare; excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes”.</i></p>	<p>The proposed formal housing development is outside the urban area and is bigger than 1ha. In addition, the proposed site was used for agricultural purposes before 1998.</p>

## 2) FEASIBLE AND REASONABLE ALTERNATIVES

“**alternatives**”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application as required by Appendix 1 (3)(h), Regulation 2014. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed.

The determination of whether site or activity (including different processes, etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the, competent authority may also request the applicant to assess additional alternatives that could accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The coordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**Needs and Desirability**

The Northern Cape Provincial Spatial Development Framework/ Development and Resource Management Plan was completed in 2012 and reviewed in 2018<sup>1</sup>. Spatial development strategies as referred to in the PSDF, include improvement in the provision of basic services.

The provision of formal housing to lower income households residing in an informal settlement meets the criteria of delivering a basic public service so that the constitutional right of adequate housing for everyone can be fulfilled..

A need therefore exists for the Dawid Kruiper Local Municipality to provide formal housing to the residents of the informal settlement that exists on Paballelo Site 2.

**a) Site alternatives**

The proposed site is a parcel of land located immediately north of Dakota Road within the densely populated and growing township of Paballelo.

The proposed site is dominated by an informal settlement. The proposed site is devoid of indigenous vegetation, watercourses and heritage resources and therefore the potential environmental impacts of the proposed development will be of low significance when the recommendations recommendations specified in the specialist reports attached to this Draft BAR are implemented together with the requirements specified in the EMPr and conditions of environmental authorisation. This raises the suitability level of Paballeo Site 2 for the proposed formal housing development and significantly lowers the necessity for time and effort to be spent investigating other site alternatives.

The proposed site is owned by the applicant and so establishing the proposed formal housing development on Paballelo Site 2 will be much easier than if the applicant seeks out another parcel of land that belongs to another landowner and the applicant then arranges for public funds to be given to the owner of the alternative site in order for the alternative site to become available for the proposed development.

In view of the above, the proposed site is the preferred site alternative and is the only site alternative that the applicant has considered.

**For route alternatives that are longer than 500m, please provide an addendum with coordinates taken every 250 meters along the route for each alternative alignment.**

**In the case of an area being under application, please provide the coordinates of the corners of the site as indicated on the lay-out map provided in Appendix A of this form.**

Preferred Site Alternative						
Coordinates of corner points of study area (if there are more than 7 co-ordinates, please attach a list as <b>Appendix 4</b> )  For linear developments a list of turning points must be attached	Latitude (S) (DDMMSS)			Longitude (E) (DDMMSS)		
	28°	26'	39.21"	21°	13'	35.98"
	28°	26'	29.74"	21°	13'	31.44"
	28°	26'	29.74"	21°	13'	30.72"
	28°	26'	24.25"	21°	13'	27.55"
	28°	26'	21.63"	21°	13'	29.19"
	28°	26'	20.16"	21°	13'	27.90"
	28°	26'	19.30"	21°	13'	28.69"

<sup>1</sup> Northern Cape – Reviewed PSDF Executive Summary 2018. Accessed at: <http://app.spisys.gov.za/download.php?201809271245138HLWTRHI3MO3ECI2CM26>

	28°	26'	19.40"	21°	13'	30.18"
	28°	26'	19.90"	21°	13'	32.18"
	28°	26'	22.70"	21°	13'	35.21"
	28°	26'	24.53"	21°	13'	33.61"
	28°	26'	29.31"	21°	13'	39.60"
	28°	26'	31.89"	21°	13'	41.65"

**b) Layout alternatives**

The exact layout of the development proposal on the proposed site is yet to be finalised.

**c) Design alternatives**

N/A

<b>Alternative 1 (preferred alternative)</b>
See "ACTIVITY DESCRIPTION" of this Draft BAR.

**d) Other alternatives (e.g. scheduling, demand, input and scale alternatives)**

NA

<b>Alternative 1 (preferred alternative)</b>		
N/A		
<b>Alternative 2</b>		
N/A		
<b>Alternative 3</b>		
N/A		

**e) No-go alternative**

The no-go alternative entails maintaining the *status quo*. This means that in spite of the obvious need to provide adequate formal housing to the informal settlers residing on Paballelo Site 2, the Dawid Kruiper Local Municipality would do nothing about the matter.

This would be contrary to the constitution of the country and would amount to a failure by the Dawid Kruiper Local Municipality to deliver a basic service to the community of Paballelo and so adopting the 'no-go' alternative would be highly undesirable. The 'no-go' alternative should therefore be discarded and the preferred alternative should be authorised by the competent authority.

**Paragraphs 3 – 13 below should be completed for each alternative.**

### 3) PHYSICAL SIZE OF THE ACTIVITY

a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

**Alternative:**

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Size of the activity:**

13ha.

or, for **linear activities**: N/A

**Length of the activity:**

Alternative A1 (preferred activity alternative)

--

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)
- Alternative A4 (if any)


b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

**Length of the activity:**

Alternative A1 (preferred activity alternative)

	m <sup>2</sup>
--	----------------

- Alternative A1 (if any)
- Alternative A2 (if any)
- Alternative A3 (preferred activity alternative)
- Alternative A4 (if any)


### 4) SITE ACCESS

Does ready access to the site exist?

If NO, what is the distance over which a new access road will be built

<b>YES</b>	<b>NO</b>

Describe the type of access road planned:

Access to the proposed site is gained by means of existing roads in the township of Paballelo
---

Include the position of the access road on the site plan and required map, as well as an indication of the road about the site.

### 5) LOCALITY MAP

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.). The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;

- closest town(s);
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS coordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The coordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection).

## 6) LAYOUT/ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land-use zoning of the site;
- the current land use as well as the land-use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;
- a legend; and
- a north arrow.

## 7) SENSITIVITY MAP

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

The sensitivity map must also cover areas within 100m of the site and must be attached in Appendix A.

## 8) SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

## 9) FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of at least 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

## 10) ACTIVITY MOTIVATION

Motivate and explain the need and desirability of the activity (including demand for the activity):

<ul style="list-style-type: none"> <li>• <b>Is the activity permitted in terms of the property's existing land use rights?</b></li> </ul>	YES	NO	Please explain
The proposed site is not yet zoned for housing. An approval in terms of land use planning legislation will have to be applied for and obtained before the proposed formal housing development can be implemented.			
<ul style="list-style-type: none"> <li>• <b>Will the activity be in line with the following?</b></li> </ul>			
<ul style="list-style-type: none"> <li>(a) <b>Provincial Spatial Development Framework (PSDF)</b></li> </ul>	YES	NO	Please explain
The footprint of the proposed formal housing development is approximately 13ha in size within an existing township and is intended to provide the informal settlers residing on the proposed site with adequate formal housing. The proposed development will therefore align with the PSDF.			
<ul style="list-style-type: none"> <li>(b) <b>Urban edge / Edge of Built environment for the area</b></li> </ul>	YES	NO	Please explain
The proposed site is not yet zoned for housing, although located with the township of Paballelo. An approval in terms of land use planning legislation will have to be applied for and obtained in order for the proposed formal housing development to align with the urban edge.			
<ul style="list-style-type: none"> <li>(c) <b>Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).</b></li> </ul>	YES	NO	Please explain
The proposed formal housing development is located within a township and the applicant, <i>i.e.</i> , the Dawid Kruiper Local Municipality plans for the proposed formal housing development to alleviate the problem of people residing on the proposed site as informal settlers. The proposed formal housing development is in line with the IDP of the Dawid Kruiper Local Municipality and will complement the existing formal residential usage of land in the surrounding township.			
<ul style="list-style-type: none"> <li>(d) <b>Approved Structure Plan of the Municipality</b></li> </ul>	YES	NO	Please explain
The proposed site is not yet zoned for housing, although located with the township of Paballelo. An approval in terms of land use planning legislation will have to be applied for and obtained in order for the proposed formal housing development to align with the all the Plans and Policies			
<ul style="list-style-type: none"> <li>(e) <b>An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)</b></li> </ul>	YES	NO	Please explain

No EMF exists for the area.			
<b>(f) Any other Plans (e.g. Guide Plan)</b>	YES	NO	Please explain
The proposed site is not yet zoned for housing, although located with the township of Paballelo. An approval in terms of land use planning legislation will have to be applied for and obtained in order for the proposed formal housing development to align with the all the Plans and Policies			
<ul style="list-style-type: none"> <li>Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?</li> </ul>	YES	NO	Please explain
The proposed formal housing development is proposed by the Dawid Kruiper Local Municipality on land owned by the same municipality.			
<ul style="list-style-type: none"> <li>Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategy as well as the local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)</li> </ul>	YES	NO	Please explain
The proposed formal housing development is proposed by the Dawid Kruiper Local Municipality on land owned by the same municipality, as it is acknowledged that allowing the existing informal settlement on the proposed site to remain unchanged constitutes a failure of the municipality to deliver a basic service to members of the public.			
<ul style="list-style-type: none"> <li>Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</li> </ul>	YES	NO	Please explain
Access roads to the informal settlement exist. However, most other municipal services are not available to the informal settlers and the formal housing development is intended to address the situation.			
<ul style="list-style-type: none"> <li>Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</li> </ul>	YES	NO	Please explain
The applicant for the proposed formal housing development is the Dawid Kruiper Local Municipality. The municipality has made the required resources available for the proposed development to be implemented when an environmental authorisation has been obtained from the competent authority.			
<ul style="list-style-type: none"> <li>Is this project par required resources have t of a national programme to address an issue of national concern or importance?</li> </ul>	YES	NO	A national initiative exists to ensure that everyone has

			access to adequate formal housing as required in the constitution of the country.
N/A			
<ul style="list-style-type: none"> <li>Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)</li> </ul>	YES	NO	Please explain
Location factors favour the proposed formal housing development, as the proposed site is located within the township of Paballelo.			
<ul style="list-style-type: none"> <li>Is the development the best practicable environmental option for this land/site?</li> </ul>	YES	NO	Please explain
<p>The proposed formal housing development is located within a township and the applicant, <i>i.e.</i>, the Dawid Kruiper Local Municipality plans for the proposed formal housing development to alleviate the problem of people residing on the proposed site as informal settlers. The proposed formal housing development is in line with the IDP of the Dawid Kruiper Local Municipality and will complement the existing formal residential usage of land in the surrounding township of Paballelo.</p> <p>The potential impact of the proposed development on biodiversity is of low significance as confirmed in the Terrestrial Biodiversity Compliance Statement attached hereto as Appendix D1. The potential impact of the proposed cemetery expansion on cultural/ historical and paleontological aspects is negligible (Appendix D2, refers). The potential impact of the proposed development on watercourses is low, as no watercourses exist within the proposed site as confirmed in Appendix D3. The potential visual impact and loss of a sense of place is also of low significance, as the proposed site is to be used for formal housing within an existing formal township of Paballelo.</p> <p>The low environmental impacts expected from the proposed formal housing development have been weighed against the fact that the proposed formal housing development will significantly benefit the community members that live informally on the proposed site by providing them with employment opportunities during the construction phase and formal housing, higher levels of safety and quality of life during the operational phase. The potential negative socio-economic impacts such as temporary disruption to the current situation that people are used to and displacement will adequately be overcome through the implementation of the mitigation measures specified in Appendix D4.</p> <p>In light of the above, the proposed formal housing development on Paballelo Site 2 is deemed the Best Practicable Environmental Option.</p>			
<ul style="list-style-type: none"> <li>Will the benefits of the proposed land use/development outweigh the negative impacts?</li> </ul>	YES	NO	Please explain
The proposed formal housing development is located within a township and the applicant, <i>i.e.</i> , the Dawid Kruiper Local Municipality plans for the proposed formal housing development to alleviate the problem of people residing on the proposed site as informal settlers. The proposed formal			

housing development is in line with the IDP of the Dawid Kruiper Local Municipality and will complement the existing formal residential usage of land in the surrounding township of Paballelo.

The potential impact of the proposed development on biodiversity is of low significance as confirmed in the Terrestrial Biodiversity Compliance Statement attached hereto as Appendix D1. The potential impact of the proposed cemetery expansion on cultural/ historical and paleontological aspects is negligible (Appendix D2, refers). The potential impact of the proposed development on watercourses is low, as no watercourses exist within the proposed site as confirmed in Appendix D3. The potential visual impact and loss of a sense of place is also of low significance, as the proposed site is to be used for formal housing within an existing formal township of Paballelo.

The low environmental impacts expected from the proposed formal housing development have been weighed against the fact that the proposed formal housing development will significantly benefit the community members that live informally on the proposed site by providing them with employment opportunities during the construction phase and formal housing, higher levels of safety and quality of life during the operational phase. The potential negative socio-economic impacts such as temporary disruption to the current situation that people are used to and displacement will adequately be overcome through the implementation of the mitigation measures specified in Appendix D4.

In light of the above, the benefits of proposed formal housing development on Paballelo Site 2 seem to far outweigh the potential negative impacts.

<ul style="list-style-type: none"> <li><b>Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?</b></li> </ul>	YES	NO	Please explain
--	-----	----	----------------

It is highly unlikely that the granting of an environmental authorisation for the proposed cemetery expansion would be deemed a precedent by the municipality to divert public funds from other community needs in a manner that violates the Municipal Finance Management Act, 2003 (Act No. 56 of 2003) and pursue the provision of formal housing for informal settlers in the municipal area.

It is therefore unlikely that a precedent will be set.

<ul style="list-style-type: none"> <li><b>Will any person's rights be negatively affected by the proposed activity/ies?</b></li> </ul>	Yes	NO	Please explain
--	-----	----	----------------

The potential impact of the proposed formal housing development on biodiversity is of low, as confirmed in the Terrestrial Biodiversity Compliance Statement attached hereto as Appendix D1. The potential impact of the proposed cemetery expansion on cultural/ historical and paleontological aspects is low (Appendix D2, refers). The potential visual impact and loss of a sense of place as a result of the proposed expansion of the Jupiter Cemetery is also low as the proposed formal housing development will be within a township.

In light of the low negative impacts that society is likely to face as a result of the proposed formal housing development and the significant benefits that society will enjoy when the proposed formal housing development alleviates the problem of the people living without municipal services in an informal settlement, it is clear that the societal benefits that will result from the proposed formal housing development far outweigh the potential negative impacts.

A public participation process that meets the minimum legal requirements will be followed and should anybody express a concern that their legal rights stand to be violated, the concern raised will be dealt with appropriately.

<ul style="list-style-type: none"> <li>• Will the proposed activity/ies compromise the “urban edge” as defined by the local municipality?</li> </ul>	YES	NO	Please explain
<p>The proposed housing development has been proposed by the municipality and will therefore be established in a manner that aligns with the relevant Policies and Plans.</p>			
<ul style="list-style-type: none"> <li>• Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?</li> </ul>	YES	NO	Please explain
<ul style="list-style-type: none"> <li>• What will the benefits be to society in general and the local communities?</li> </ul>	Please explain		
<p>The proposed formal housing development will provide employment opportunities and skills acquisition for local community members during the construction phase. And will greatly improve the quality of life for the people that currently live on the proposed site inside informal structures without access to most municipal services.</p> <p>The benefits will arise from the proposed development with low environmental impacts as indicated in Appendices D1, D2 and D3. Furthermore, it is indicated in Appendix D4 that the temporary inconveniences that may be suffered by affected community members are far outweighed by the long-term benefits that the community stands to enjoy.</p>			
<ul style="list-style-type: none"> <li>• Any other need and desirability considerations related to the proposed activity?</li> </ul>	Please explain		
N/A			
<ul style="list-style-type: none"> <li>• How does the project fit into the National Development Plan for 2030?</li> </ul>	Please explain		
<p>The proposed formal housing development will alleviate the problem of many members of the public living inside informal structures without most municipal services on Paballelo Site 2. The provision of adequate housing for everyone is a constitutional right that municipalities are therefore required to fulfil as one of the basic services to members of the public. cemeteries for the community to bury their loved ones is a basic service that municipalities must provide to the public. This is in line with the National Development Plan for 2030<sup>2</sup> in that the National Development Plan aims to <i>inter alia</i>, promote the improvement of services provision to the public.</p>			
<ul style="list-style-type: none"> <li>• Please describe how the general objectives of Integrated Environmental Management as set out in Section 23 of the NEMA have been taken into account.</li> </ul>			
<p>The general objectives of Integrated Environmental Management, namely, to promote sustainable development through the integration of social, economic and ecological considerations as well as the maintenance of inter- and intra-generational equity have been taken into account through the following:</p> <ul style="list-style-type: none"> <li>• The actual and potential impacts of the proposed activity on the environment, socio-economic conditions, and cultural heritage, relative to the proposed site have been identified and evaluated. The proposed mitigation measures, with a view to minimizing negative impacts on the environment, socio-economic conditions, and any cultural heritage, while maximizing benefits and promoting compliance with the principles of environmental management, were assessed.</li> <li>• The potential environmental impacts of the proposed formal housing development on Paballelo Site 2 have been identified, assessed, and measures proposed to avoid or minimise the potential negative impacts.</li> <li>• A public participation process that meets the minimum legal requirements has been followed for the Basic Assessment application to help ensure that the decision-making process takes into account the comments of members of the public and commenting authorities.</li> </ul>			

<sup>2</sup>National Development Plan, 2030. Accessed at <https://www.gov.za/sites/default/files/Executive%20Summary-NDP%202030%20-%20Our%20future%20-%20make%20it%20work.pdf>

- The environmental features of the proposed site have been considered and evaluated in the management and decision-making of the activity. An EMPr has been compiled (Appendix G, refers) for the proposed development and in the EMPr, the potential impacts with impact avoidance and mitigation measures to be adhered to during the implementation phase are specified.

• **Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.**

The principles of environmental management, as per Section 2 of the NEMA have been taken into account. The principles include:

- **Socio-economic development:** People and their needs have been placed at the forefront while serving their physical, psychological, developmental, cultural, and social interests – the proposed activity is unlikely to cause an overall negative effect on people. The proposed formal housing development on Paballelo Site 2 will provide alleviate the problem of many community member that live lives of low quality inside informal structures without most of the basic municipal services.
- **Sustainable development:** Development must be socially, ecologically and economically sustainable. The environmental impacts associated with the proposed cemetery expansion are of low significance as indicated by the terrestrial biodiversity specialist in the specialist report attached hereto as Appendix D1 and the heritage impact specialist in the report attached hereto as Appendix D2. It is also indicated in the freshwater impact study report attached hereto as Appendix D3 that no watercourses will be impacted by the development proposal and it is indicated in the social impact assessment (Appendix 4, refers) that the implementation of the recommendations contained in Appendix 4 will enable the benefits of the proposed development to significantly outweigh the low potential negative impacts. The recommendations contained in the specialist reports are included in the EMPr and will be implemented to help ensure that the potential impacts identified in the said report are avoided or minimised. The potential impacts of the proposed development will also be minimised further through the implementation of the impact avoidance and mitigation measures contained in the EMPr (Appendix G, refers). In this way, the benefits associated with the proposed development that have been detailed in this Draft BAR will be kept outweighing the potential negative impacts.
- **Transparent Public Participation Process:** The public participation process followed has given I&APs an opportunity to view the draft report that will subsequently be submitted to the competent authority for decision-making and the decision of the competent authority will be forwarded to all I&APs so that whomsoever wishes to appeal the decision may appeal.

**11) LIST ALL LEGISLATION, POLICIES AND/OR GUIDELINES OF ANY SPHERE OF GOVERNMENT THAT ARE APPLICABLE TO THE APPLICATION AS CONTEMPLATED IN THE EIA REGULATIONS, IF APPLICABLE**

List all legislation, policies and/or guidelines of any sphere of government that apply to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
The National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") and the Environmental Impact Assessment	Applications for environmental authorisation must comply with the requirements specified in the NEMA and in the EIA Regulations of 2014 (as amended)	Northern Cape Provincial Department of Agriculture, Environmental Affairs, Rural Development and Land Reform	This application

("EIA") Regulations of 2014 (as amended)			
Integrated Environmental Management Information Series	Criteria to be used for evaluating the environmental impacts of the proposed activity during the NEMA EIA application process (a copy of the Integrated Environmental Management Information Series can be accessed at <a href="https://www.environment.gov.za/documents/strategies/integrated_environmentalmanagement_eim">https://www.environment.gov.za/documents/strategies/integrated_environmentalmanagement_eim</a> ).	Northern Cape Provincial Department of Agriculture, Environmental Affairs, Rural Development and Land Reform	This application
By-laws of Dawid Kruiper Local Municipality and ZF Mgcawu District Municipality	To be adhered to during the construction and operational phase.	Local and District Municipalities	In progress

## 12) WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

### a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

If YES, what estimated quantity will be produced per month?

YES	NO
Difficult to estimate	

How will the construction solid waste be disposed of (describe)?

Waste generated on-site during construction activities will be consolidated, adequately stored, and disposed of at a suitable licensed waste disposal site. The waste includes vegetation that will be cleared from the proposed site and general waste such as food wrapping discarded by on-site workers etc.)

Where will the construction solid waste be disposed of (describe)?

Waste generated on-site during the construction phase will be collected, adequately stored, and disposed of at a lawfully registered waste disposal site.

Will the activity produce solid waste during its operational phase?

If YES, what estimated quantity will be produced per month?

YES	NO
Difficult to estimate how much waste the formal houses will produce	

How will the solid waste be disposed of (describe)?

The municipality will collect the waste using garbage trucks and dispose the waste at a licensed waste disposal site

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

The municipality will determine the most suitable municipal landfill that the municipal trucks will dispose that waste at.

Where will the solid waste be disposed of if it does not feed into a municipal waste stream (describe)?

N/A

*If the solid waste (construction or operational phases) will not be disposed of at a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.*

Can any part of the solid waste be classified as hazardous in terms of the NEM: WA? 

YES	NO
-----	----

If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM: WA must also be submitted with this application.

Is the activity that is being applied for a solid waste handling or treatment facility? 

YES	NO
-----	----

If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM: WA must also be submitted with this application.

**b) Liquid effluent**

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? 

YES	NO
-----	----

If YES, what estimated quantity will be produced per month?

m<sup>3</sup>

Will the activity produce an effluent that will be treated and/or disposed of on-site? 

YES	NO
-----	----

*If YES, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.*

Will the activity produce effluent that will be treated and/or disposed of at another facility? 

YES	NO
-----	----

If YES, provide the particulars of the facility:

<b>Facility Name:</b>			
<b>Contact person:</b>			
<b>Postal address:</b>			
<b>Postal code:</b>			
<b>Telephone:</b>		<b>Cell:</b>	
<b>E-mail:</b>		<b>Fax:</b>	

Describe the measures that will be taken to ensure the optimal reuse or recycling of wastewater, if any:

N/A

**c) Emissions into the atmosphere**

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities? 

YES	NO
-----	----

If YES, is it controlled by any legislation of any sphere of government? 

YES	NO
-----	----

If YES, the applicant must consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If NO, describe the emissions in terms of type and concentration:

--

**d) Waste permit**

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM: WA? 

YES	NO
-----	----

If YES, please submit evidence that an application for a waste permit has been submitted to the competent authority - N/A

**e) Generation of noise**

Will the activity generate noise? 

YES	NO
-----	----

  
 If YES, is it controlled by any legislation of any sphere of government? 

YES	NO
-----	----

Describe the noise in terms of type and level:

Normal construction-related noise is likely and will be limited to regular daytime working hours as is explained in the EMPr.
---

**13) WATER USE**

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es):

Municipal	<input checked="" type="checkbox"/> Waterboard	<input type="checkbox"/> Groundwater	<input type="checkbox"/> River, stream, dam or lake	<input type="checkbox"/> Other	
-----------	--	--------------------------------------	---	--------------------------------	--

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month: 

--

  
 Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs? 

YES	NO
-----	----

  
 If YES, please provide proof that the application has been submitted to the Department of Water Affairs.

**14) ENERGY EFFICIENCY**

Describe the design measures, if any, which have been taken to ensure that the activity is energy efficient:

The municipality will install the standard energy saving and the standard water saving measures that are usually installed in lower income housing developments established by municipalities
---

Describe how alternative energy sources have been taken into account or been built into the design of the activity if any:

The municipality is yet to finalise the detail on the matter
--

## SECTION B: SITE/AREA/PROPERTY DESCRIPTION

### Important notes:

- For linear activities (pipelines, etc.) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area, which is covered by each copy No. on the Site Plan.

Section B Copy No. (e.g. A):

- Paragraphs 1 - 6 below must be completed for each alternative.

- Has a specialist been consulted to assist with the completion of this section?  YES  NO

If YES, please complete the form titled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

C 0 2 8 0 0 0 7 0 0 0 0 0 0 0 1 0 0 0 0 0

<b>Property description/physical address:</b>	<b>Province</b>	Northern Cape
	<b>District Municipality</b>	ZF Mgcau District Municipality
	<b>Local Municipality</b>	Dawid Kruiper Local Municipality
	<b>Ward Number(s)</b>	
	<b>Farm name and Number</b>	Portion of Erf 1
	<b>SG Code</b>	C02800070000000100000
Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application including the same information as indicated above.		
<b>Current land-use zoning as per local municipality IDP/records:</b>	Undetermined	
	In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.	
Is a change of land-use or a consent use application required?		YES <input type="checkbox"/> NO <input type="checkbox"/>

### 1) GRADIENT OF THE SITE

Indicate the general gradient of the site.

#### Alternative S1 (Preferred):

Flat	1:50 — 1:20 Average	1:20 — 1:15	1:15 — 1:10	1:10 — 1:7,5	1:7,5 — 1:5	Steeper than 1:5
------	------------------------	-------------	-------------	--------------	-------------	---------------------

#### Alternative S2 (if any):

Flat	1:50 — 1:20 Average	1:20 — 1:15	1:15 — 1:10	1:10 — 1:7,5	1:7,5 — 1:5	Steeper than 1:5
------	------------------------	-------------	-------------	--------------	-------------	---------------------

#### Alternative S3 (if any):

Flat	1:50 — 1:20 Average	1:20 — 1:15	1:15 — 1:10	1:10 — 1:7,5	1:7,5 — 1:5	Steeper than 1:5
------	------------------------	-------------	-------------	--------------	-------------	---------------------

## 2) LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

2.1 Ridgeline		2.4 Closed valley		2.7 Undulating plain / low hills	
2.2 Plateau		2.5 Open valley		2.8 Dune	
2.3 Side slope of hill/mountain		2.6 Plain	✓	2.9 Seafront	
2.10 At sea					

## 3) GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following?

	Alternative A1		Alternative A2		Alternative A3		Alternative A4	
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	YES	NO	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for GeoScience may also be consulted.

## 4) GROUNDCOVER

Indicate the types of groundcover present on the site. The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld—good condition	Natural veld with scattered aliens	Natural veld with a heavy alien infestation	Veld dominated by alien species	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

Please see Appendix B for Site Photographs and further descriptions of site vegetation.

If any of the boxes marked with an "E" is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

N/A

## 5) SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE

If any of the boxes marked YES or UNSURE is ticked, please describe the relevant watercourse.

N/A

## 6) LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give a description of how this influences the application or may be impacted upon by the application:

<b>Natural area</b>	Dam or reservoir	Pole fields
Low density residential	Hospital/medical centre	Filling station <sup>H,±</sup>
Medium density residential	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential <sup>A</sup>	Church	Agriculture
Retail commercial & warehousing	Old age home	River, stream or wetland
Light industrial	Sewage treatment plant <sup>A</sup>	Nature conservation area
Medium industrial <sup>AN</sup>	Train station or shunting yard <sup>N</sup>	Mountain, koppie or ridge
Heavy industrial <sup>AN</sup>	Railway line	Museum
Power station	Major road (4 lanes or more) <sup>N</sup>	Historical building
Office/consulting room	Airport	Protected Area
Military or police base/station/compound	Harbour	Cemetery
Spoil heap or slimes dam <sup>A</sup>	Sport facilities	Archaeological site
Quarry, sand or borrow pit	Golf course	Other land uses (indigenous vegetation)–

If any of the boxes marked with an "N" are ticked, how this impact will / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES	NO
A core area of a protected area?	YES	NO
A buffer area of a protected area?	YES	NO
The planned expansion area of an existing protected area?	YES	NO
Existing offset area associated with a previous Environmental Authorisation?	YES	NO
A buffer area of the SKA?	YES	NO

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A.

## 7) CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site? If YES, explain:	YES	NO
	Uncertain	

If uncertain, conduct a specialist investigation by a recognised specialist in the field (archaeology or palaeontology) to establish whether there is such a feature(s) present on or close to the site. Briefly explain the findings of the specialist:
N/A

Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If YES, please provide proof that the permit application has been submitted to SAHRA or the relevant provincial authority.		

## 8) SOCIO-ECONOMIC CHARACTER

### a) Local Municipality

Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

<p>The population of the Dawid Kruiper Local Municipality area grew by an average of approximately 1.75% between 2007 and 2017, which is very similar to the growth rate of South Africa as a whole (1.56%) and the population of the municipal area currently stands at approximately 114 000 people.</p> <p>The Dawid Kruiper Municipal area has a strong resource base that supports a variety of economic sectors, including agriculture, tourism, manufacturing and the solar energy production industry. The municipal area is the acknowledged commercial, educational, military, agricultural, medical, transport and tourism centre of the area.</p> <p>The Orange River passes through the area, from the south-east to the north-west. The presence of perennial river water contributes to the production of table grapes, which are marketed and exported via the Upington International Airport to Western Europe.</p> <p>In 2007, the unemployment rate for the Dawid Kruiper Local Municipality area was 25.6% and increased over time to 26.2% in 2017.</p> <p>The unemployment rate of the Dawid Kruiper Local Municipality area is higher than that in the rest of the ZF Mgcawu District Municipality area. Compared to the Northern Cape Province in general, the unemployment rate for the Dawid Kruiper Local Municipality was lower than the 30.52% unemployment rate of the Northern Cape in general.</p>
--

**b) Socio-economic value of the activity**

What is the expected annual turnover to be generated by or as a result of the project?	N/A. The provision of adequate formal housing to lower income members of society that live inside informal structures is a basic public service and not a means of generating any income
New skilled employment opportunities created in the <u>construction</u> phase of the project	N/A
New skilled employment opportunities created in the <u>operational</u> phase of the project	None. The proposed development will only support employment opportunities for existing maintenance workers of the municipality
New un-skilled employment opportunities created in the <u>construction</u> phase of the project	None
New un-skilled employment opportunities created in the <u>operational</u> phase of the project	None
What is the expected value of the employment opportunities during the operational and construction phase?	N/A

## 9) BIODIVERSITY

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on-site and the ecosystem status consult <http://bgis.sanbi.org> or [BGIShelp@sanbi.org](mailto:BGIShelp@sanbi.org). Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix D to this report.

- a) Indicate the applicable biodiversity planning categories of all areas on-site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	

- b) Indicate and describe the habitat condition on site (will be described once assessments have been received)

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into the condition, e.g. poor land management practices, presence of quarries, grazing, harvesting regimes etc).
Natural		
Near Natural (includes areas with low to moderate levels of alien invasive plants)		
Degraded (includes areas heavily invaded by alien plants)	100%	The vegetation on the proposed site has been heavily disturbed by trampling and the existence of an on-site informal settlement, with many bare patches showing as footpaths and informal roads. Earthworks have also significantly disturbed the on-site vegetation. Please see the Biodiversity Compliance Statement attached hereto as Appendix D1
Transformed (includes cultivation, dams, urban, plantation, roads, etc)		

**c) Complete the table to indicate:**

- (i) the type of vegetation, including its ecosystem status, present on the site; and
- (ii) whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems						
<b>Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)</b>	Critical	Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)	Estuary				Coastline	
	Endangered							
	Vulnerable							
	Least Threatened	YES	NO	UNSURE	YES	NO	YES	NO

**d) Please describe the vegetation type and/or aquatic ecosystem present on-site, including any important biodiversity features/information identified on-site (e.g. threatened species and special habitats)**

**Vegetation**  
 The vegetation on the proposed site is identified as Kalahari Karroid Shrubland. The vegetation type is categorised as Least Threatened. Please refer to the Biodiversity Compliance Statement attached hereto as Appendix D1

**Aquatic ecosystems**  
 No watercourse exists on the proposed site.

## SECTION C: PUBLIC PARTICIPATION

### 1) ADVERTISEMENT AND NOTICES

Publication name	Noordkaap Bulletin
Date published	02 April 2023
Location of notices	
At various tuckshops within Paballelo Site 2	
At the offices of the Dawid Kruiper Local Municipality	
<b>Date placed:</b> 03 April 2023	

Include proof of the placement of the relevant advertisements and notices (Refer to Appendix E1).

### 2) DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 733.

#### **Pre-application PPP (Refer to Appendix E)**

- An advertisement was placed in a local newspaper (Noordkaap Bulletin) which was published on 02 April 2023. Refer to Appendix E1.
- Adjacent landowners/ occupiers were notified via letter drops on 26 January 2023.
- An initial register of possible interested and affected parties was compiled (Refer to Appendix E)
- A site visit was conducted on 03 April 2023 to familiarise with the proposed site and nearby surrounding area and identify environmental sensitivities associated with the proposed site.
- No comments were received in response to the PPP notices.

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 733

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (Tel. number or e-mail address)
Mr Flip van Steen	Ward Councillor	Tel.: 082 491 0401

Include proof that the key stakeholder received written notification of the proposed activities (Appendix E2).

This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon with the competent authority.

### 3) ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES (Please See Appendix E)

Summary of main issues raised by I&APs	Summary of response from EAP
No response was received	

### 4) COMMENTS AND RESPONSES REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the BAR is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to the BAR as Appendix E3.

**Please refer to Appendix E3 for the comments and response report.**

### 5) AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No	Fax No	e-mail	Postal address
No response was received					

Include proof that the Authorities and Organs of State received written notification of the proposed activities as appendix E4.

In the case of renewable energy projects, Eskom and the SKA Project Office must be included in the list of Organs of State.

### 6) CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted before the commencement of the public participation process.

A list of registered I&APs must be included in Appendix E5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix E6.

## SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014 and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

### 1) IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A(2) of this report.

Please see Appendix F for Impact Assessment and Scoring Matrix.

Activity	Impact summary	Significance	Proposed mitigation
<b>Alternative 1 (preferred alternative)</b>			
Geographic and physical	<b>Direct impacts:</b>	Low negative	<ul style="list-style-type: none"> <li>- Implement EMP;</li> <li>- Minimise development footprint;</li> <li>- ECO monitoring;</li> <li>- Waste management.</li> <li>- Limit construction work to normal working hours</li> </ul>
	<b>Indirect impacts:</b>	Low negative	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Low negative	
Biological: (vegetation, protected species, CBAs,)	<b>Direct impacts:</b>	Low negative	<ul style="list-style-type: none"> <li>- The proposed formal housing development on Site 2 in the township of Paballelo, Upington will remain compliant with an Environmental Management Programme (EMPr) approved by the competent authority.</li> <li>- A suitably qualified Environmental Control Officer must be appointed to help ensure that the proposed work of establishing the formal housing development is implemented in a manner consistent with the recommendations of the appointed specialists and is compliant with the environmental authorisation and approved EMPr.</li> <li>- All cleared waste must be removed from the proposed site to a lawfully registered waste disposal site.</li> <li>- An integrated waste management approach must be implemented during construction. All construction-related waste must be disposed of at a licensed municipal waste disposal site.</li> </ul>
	<b>Indirect impacts:</b>	Low negative	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Low negative	
Sewage Management	<b>Direct impacts:</b>	Low negative	<ul style="list-style-type: none"> <li>- A portable toilet must be provided to construction workers during the construction phase and the sewage collected and disposed of at a licensed wastewater treatment works at least twice a week.</li> </ul>
	<b>Indirect impacts:</b>	Low negative	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Low negative	

Activity	Impact summary	Significance	Proposed mitigation
<b>Alternative 1 (preferred alternative)</b>			
Surface water	<b>Direct impacts:</b>	Low	An effective stormwater management system must be maintained on the proposed site to help prevent on-site ponding so that the possibility of groundwater pollution remains minimal.
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Low	
Groundwater	<b>Direct impacts:</b>	N/A	No watercourses exist within 900m of the proposed site
	<b>Indirect impacts:</b>	N/A	
	<b>Cumulative impacts:</b>	N/A	
Socio-economic	<b>Direct impacts:</b>	Medium positive	-The recommendations contained in the social impact assessment attached hereto as Appendix D4 must be implemented.
	<b>Indirect impacts:</b>	Medium positive	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Medium positive	
Cultural-Historical	<b>Direct impacts:</b>	Low	No heritage features of any significance were identified on the proposed site. Please refer to Appendix D2
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Low	
Noise impact	<b>Direct impacts:</b>	Low	Any noise from the proposed development that exceeds the current levels of noise in the area will be a temporary impact of the construction phase and the noise of the operational phase should revert to levels comparable to the current noise levels. The following mitigation measures will be implemented:  <ul style="list-style-type: none"> <li>- A complaints register will be maintained on-site. Any complaints received will be responded to and rectified accordingly. The ECO must be notified of any complaints</li> <li>- Working hours must be strictly limited to regular daytime working hours (08h00-17h00)</li> </ul>
	<b>Indirect impacts:</b>	N/A	
	<b>Cumulative impacts:</b>	N/A	
Visual impact	<b>Direct impacts:</b>	Low	The impact avoidance and impact mitigation measures specified in the EMP approved by the competent authority must be complied with
	<b>Indirect impacts:</b>	Low	

Activity	Impact summary	Significance	Proposed mitigation
<b>Alternative 1 (preferred alternative)</b>			
	<b>Cumulative impacts:</b> <i>After mitigation</i>	Low	
<b>No-go option</b>			
The "No-Go" option: Potential impact associated with the No-Go alternative.	<b>Direct impacts:</b>	High negative	<p>- The no-go alternative entails maintaining the <i>status quo</i>. This means that in spite of the lack of adequate housing for the residents of Paballelo Site 2 and the lack of access to most municipal services, the Dawid Kruiper Local Municipality would do nothing about the matter.</p> <p>This would amount to a failure by the Dawid Kruiper Local Municipality to deliver a basic service to the community of Paballelo and so adopting the 'no-go' alternative would be highly undesirable, especially when considering that the competent authority can authorise the application with only low negative impacts resulting.</p>
	<b>Indirect impacts:</b>	High negative	
	<b>Cumulative impacts:</b> <i>After mitigation</i>	High negative	

**A complete impact assessment in terms of Regulation 19(3) of GN 733 must be included as Appendix F.**

## 2) ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts occurring and the significance of impacts.

**Please refer to Appendix F for the full Impact Assessment and proposed Mitigation Measures.**

### **Proposed establishment of a formal housing development on Paballelo Site 2, Upington**

The population in the township of Paballelo is growing and this has resulted in a housing shortage that has caused many people to reside inside informal structures as is the case on Paballelo Site 2 without most of the basic municipal services. The Dawid Kruiper Local Municipality will alleviate the problem of people living inside informal structures without most municipal services in Paballelo Site 2 by establishing a formal housing development that will be provided with municipal services.

The establishment of the formal housing development will enable members of the local community to obtain employment opportunities and acquire skills during the construction phase. The establishment of the formal housing development will also provide formal housing with municipal services to households that currently lack access to these basic services. These envisaged positive impacts are significant for the lower community of the township of Paballelo.

On the other hand, it is indicated in the specialist reports attached hereto that when the recommendations specified by the specialists are implemented, the potential negative impacts of the proposed formal housing development will remain low.

In light of the above, it is advisable that the proposed development be authorised by the competent authority.

### **No-go alternative (compulsory)**

The no-go alternative entails maintaining the *status quo*. This means that in spite of the lack of adequate housing for the residents of Paballelo Site 2 and the lack of access to most municipal services, the Dawid Kruiper Local Municipality would do nothing about the matter.

This would amount to a failure by the Dawid Kruiper Local Municipality to deliver a basic service to the community of Paballelo and so adopting the 'no-go' alternative would be highly undesirable, especially when considering that the competent authority can authorise the application with only low negative impacts resulting.

### **Alternatives**

Erf 5530 in the township of Paballelo is the preferred and only site alternative considered by the applicant as a result of the following:

- An informal settlement already exists on Paballelo 2 and so minimal displacement of the households residing in Paballelo 2 is likely.
- The potential impacts of the formal housing development will remain low as a result of the implementation of the recommendations specified in the specialist reports attached to this Draft BAR and the implementation of the EMPr and conditions of environmental authorisation. This raises the suitability level of Paballelo 2 for the proposed development and significantly lowers the necessity of spending time and effort investigating other site alternatives.
- The proposed site is owned by the applicant and so establishing the proposed housing development on Paballelo will be much easier for the applicant to achieve than if the applicant seeks out another parcel of land that belongs to another landowner and the applicant then makes arrangements for public funds to be given to the owner of the alternative site in order for the alternative site to be used for the proposed development.

### **No-go alternative (compulsory)**

The no-go alternative entails maintaining the *status quo*. This means that in spite of the lack of adequate housing for the residents of Paballelo Site 2 and the lack of access to most municipal services, the Dawid Kruiper Local Municipality would do nothing about the matter.

This would amount to a failure by the Dawid Kruiper Local Municipality to deliver a basic service to the community of Paballelo and so adopting the 'no-go' alternative would be highly undesirable,

especially when considering that the competent authority can authorise the application with only low negative impacts resulting.

## SECTION E. RECOMMENDATION OF EAP

Is the information contained in this report and the documentation attached hereto sufficient to decide in respect of the activity applied for (in the view of the environmental assessment practitioner)?	YES	NO
---	-----	----

If “NO”, indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require a further assessment).

The Draft BAR must first be made available to Interested and Affected Parties for public participation as per the EIA Regulations of 2014 (as amended), before the final report can be submitted to the competent authority for a decision on the application.
--

If “YES”, please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application.

<b><u>Recommended conditions</u></b>		
<ul style="list-style-type: none"> <li>All construction must take place in accordance with an approved construction and operational phase Environmental Management Programme (EMPr).</li> <li>A suitably experienced ECO must be appointed to ensure compliance with the conditions of the Environmental Authorization and the EMPr.</li> <li>Construction work must be strictly limited to daytime working hours to minimise the possibility of noise disturbance.</li> <li>All waste material on site must be removed and disposed of at a lawful municipal waste disposal facility.</li> </ul>		
Is an EMPr attached?	YES	NO

The EMPr must be attached as Appendix G.

The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included in Appendix H.

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix I.

Any other information relevant to this application and not previously included must be attached in Appendix J.

Bernard de Witt  
NAME OF EAP

\_\_\_\_\_  
SIGNATURE OF EAP

26/06/2023  
DATE

---

## **SECTION F: APPENDICES**

The following appendices are attached:

### **APPENDIX A: MAPS**

### **APPENDIX B: SITE PHOTOGRAPHS**

### **APPENDIX C: FACILITY ILLUSTRATION**

### **APPENDIX D: SPECIALIST REPORTS**

### **APPENDIX E: PUBLIC PARTICIPATION**

APPENDIX E1: PROOF OF ADVERTISEMENT AND NOTICES

APPENDIX E2: COMMENTS AND RESPONSES

APPENDIX E3: I&AP REGISTER

### **APPENDIX F: IMPACT ASSESSMENT AND SCORING MATRIX**

### **APPENDIX G: ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)**

### **APPENDIX H: DETAILS OF EAP AND EXPERTISE**