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	(For official use only)
File Reference Number:	
Application Number:	
Date Received:	

Basic Assessment Report in terms of the Environmental Impact Assessment Regulations, 2014, 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 particular competent authority for the activity that is being applied for.
- This report format is current as of 08 December 2014. 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 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 an original signature.
- 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 report on request, 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 entitled "Details of specialist and declaration of interest" for the specialist appointed and attach in Appendix I.

THE PROPOSED HOUSING DEVELOPMENT ON ERF 745, OLYVENHOUTSDRIFT, UPINGTON, NORTHERN CAPE

ACTIVITY DESCRIPTION

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

It is proposed that 32 residential units be developed on Erf 745, Olyvenhoutsdrift, located outside of Upington.

The site is currently vacant and undeveloped.

The influx of people, due to the steep increase in employment opportunities in the area, causes a direct increase in the need for goods, services and especially housing in the Upington area. The need and desirability for a housing development, as proposed, thus arises.

The town of Upington is located centrally within the Northern Cape Province. The property (Erf 745, Olyvenhoutsdrift Settlement) is located adjacent to the N10 national road and approximately 1.5km directly south of Upington. The proposed site is located off Jooste Eiland Road, Olyvenhoutsdrift, Upington, Northern Cape.

Coordinates: S 28°28'19.40", E 21°14'57.09".

The Spatial Development Framework of the //Khara Hais Municipality supports the development of the proposed area for mixed use. The current zoning on the property is Agricultural I. Erf 745 is to be rezoned to D.h.2 Group Housing, F.d.3 Private road, and, B.c.3 Parks and Open Space for the proposed construction of the housing development.

The proposed development will contribute positively to the land value of the involved property, as well as that of surrounding properties. The proposed utilisation of the involved properties will entail a very high quality, partly temporary and partly permanent, residential development that will greatly contribute to the south-eastern entrance of the town of Upington.

Services:

The services to the proposed development are described in the Services Report (Appendix D1).

Roads and access:

The N10 runs along the eastern boundary of the site. Due to limited sight distances however, access to the development directly from the N10 is not advisable. Approvals from SANRAL for access from the N10 will therefore also be highly unlikely.

Access will however be obtained from the existing Jooste Eiland Road approximately 100m from an existing intersection with the N10, thereby complying with SANRAL regulation.

Internal roads shall be 6m in width for internal collector roads and 5.5m in width for access roads to residential units. Roads will be black top (typically Cape or double seal) with the required base, sub base and selected layer works.

Water:

Internal water pipes shall be Ø 63mm and Ø 75mm uPVC Class 9, connected to the existing (2x) Ø 300mm municipal bulk mains running along the N10.

Connection to the municipal bulk water supply can be via an existing Ø 100mm water connection crossing the N10 or a new Ø 110mm connection installed through the N10 to allow for future capacity, depending on the preference of the municipality.

Water pressure in the municipal bulk supply network within the vicinity was found to vary between a minimum of 2.8 bar (peak) and a maximum of 4.8 bar (off-peak).

The development is expected to generate an average flow of 0.37 l/s with an instantaneous peak flow of 2.22 l/s.

A peak flow of 2.22 l/s will result in an approximate 0.03 m/s increase to peak flow velocity within the specific \emptyset 300mm municipal bulk water mains. The additional peak flow required is expected to have only a minor effect on the capacity of the bulk mains, which should be able to accommodate the required demand.

Sewerage:

The internal sewer system will consist of \emptyset 160mm uPVC Class 34 sewer pipes for general distribution with \emptyset 110mm uPVC Class 34 house connections.

The development is expected to discharge an estimated peak sewage flow of 1.21 l/s that will be pumped to the Rosepark sewage pump station approximately 700m away via a Ø 90mm uPVC Class 6 pipe.

Rosepark sewage pump station services the Eiland Resort with an estimated occupied peak sewage generation of 3.3 l/s. Rosepark pump station is equipped with 3.3 kW Flyght submersible pumps which can be expected to have an estimated pump capacity in excess of 10 l/s. It can therefore be concluded that an additional peak flow of 1.21 l/s should not present any problems in terms of pump station capacity.

Solid waste:

Solid waste will be collected and handled by the municipality as this development falls within the urban edge and the general area of service by the municipality.

Stormwater:

Storm water run-off will be handled overland and accommodated within roads where required, within the boundaries of the development. Existing surface drainage routes to the Orange River will be used to maintain the current storm water run-off scenario.

Electricity:

The proposed development will be executed in two phases and for the purpose of this report we accept that the development will be done in roughly two equal portions.

An in loco inspection in the presence of the Electrical Engineer of the Municipality was conducted on the existing medium voltage network and transformer installation on Pole LV3, which is situated on the southerly boundary of the property.

It was then discussed that the initial phase of the development will be accommodated on the low voltage reticulation network provided by the existing transformer and, if necessary, this transformer will be upgraded as the current unit shows severe signs of oil leakage.

It was further discussed that the balance of the development can also be accommodated on the low voltage reticulation network provided by an upgraded transformer.

The financial contribution by the developer for this upgrading exercise was not finalised but it is normal practise to request a contribution based on the pro rata loading on the distribution transformer.

The expected after diversity maximum demand for this development amounts to 125kVA.

Municipal services directly to the site of the development are limited, but connection to bulk municipal infrastructure is plausible in terms of water, sanitation and electrical reticulation. The scope of the development is of such scale that it is expected to have a limited impact on the bulk municipal services.



Figure 1: Aerial view of the site. Erf 745 depicted by the red polygon

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

Listed activity as described in GN 983, 984 and 984	Description of project activity
GN 983 (Item 12): The development of; (i) canals exceeding 100 square metres in size; (ii) channels exceeding 100 square metres in size; (iii) bridges exceeding 100 square metres in size; (iv) dams, where the dam, including infrastructure and water surface area, exceeds 100 square metres in size; (v) weirs, where the weir, including infrastructure and water surface area, exceeds 100 square metres in size; (vi) bulk storm water outlet structures exceeding 100 square metres in size; (vii) marinas exceeding 100 square metres in size; (viii) jetties exceeding 100 square metres in size; (x) buildings exceeding 100 square metres in size; (x) buildings exceeding 100 square metres in size; (xi) boardwalks exceeding 100 square metres in size; or (xii) infrastructure or structures with a physical	Infrastructure and buildings exceeding 100m ² will be constructed within 32m of the canal which crosses the site.

footprint of 100 square metres or more;

where such development occurs;

- (a) within a watercourse;
- (b) in front of a development setback; or
- (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;

<u>GN 983 (Item 27):</u> 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) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in
- (ii) maintenance purposes undertaken in accordance with a maintenance management plan.

Although there is very little natural vegetation on site, and the site is mostly disturbed, developed or transformed, the site does exceed 1ha, and vegetation will need to be cleared.

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 possibly 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 co-ordinates 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.

a) Site alternatives

No other site alternatives were considered. The site is owned by the Applicant, and within the urban edge, and is therefore considered the only reasonable and feasible site

Alternative 1 (preferred alternative)					
Description	Lat (DDMMSS)	Long (DDMMSS)			
	Alternative 2				
Description	Lat (DDMMSS)	Long (DDMMSS)			
Alternative 3					
Description	Lat (DDMMSS)	Long (DDMMSS)			

In the case of linear activities:

Alternative:	Latitude (S):	Longitude (E):
Alternative S1 (preferred)		
 Starting point of the activity 		
Middle/Additional point of the activity		
End point of the activity		
Alternative S2 (if any)		
Starting point of the activity		
 Middle/Additional point of the activity 		
End point of the activity		

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

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

b) Lay-out alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative site layouts were initially considered, when the proposed site included Erf 544 (erf 544 has since been excluded from the proposed development in this application).	28° 46′ 42.3″S	20° 36' 42.7"E
However, since the development and the application is now only on Erf 745, and due to the size of the available ground left for development and the nature of the development, there are no feasible alternative layouts that would have a less (or greater) environmental impact. Therefore, there are no feasible alternative layouts considered		

Alternative 2				
Description		Lat (DDMMSS	(DDMMSS)	
	Alternative 3			
Description		Lat (DDMMSS)	ong (DDMMSS)	

c) Technology alternatives

No technology alternatives were considered. This is a housing development, and therefore, there are no technology alternatives.

Alternative 1 (preferred alternative)		
Alternative 2		
Alternative 3		

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

Alternative 1 (preferred alternative)				
	Alternative 2		·	
	Alternative 3			

e) No-go alternative

This would mean that no-development would take place and the proposed site will remain as is. No additional housing opportunities will be provided.

Although this option would result in no potential negative environmental impacts, the social benefits from implementing the activity would not be achieved.

The no-go option would only have been recommended if it were found that the construction of the proposed development on this site or in this area might potentially cause substantial detrimental harm to the environment.

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

PHYSICAL SIZE OF THE ACTIVITY

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

Alternative:	Size o	f the activity:
Alternative A1 (preferred activity alternative)		Erf 745 - 1.9191ha
Alternative A2 (if any)		m ²
Alternative A3 (if any)		m ²

or, for linear activities:

Alternative:	Length of the activity:
Alternative A1 (preferred activity alternative)	m
Alternative A2 (if any)	m
Alternative A3 (if any)	m

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

Alternative:	Size of the site/servitude
Alternative A1 (preferred activity alternative)	m ²
Alternative A2 (if any)	m ²
Alternative A3 (if any)	m ²

SITE ACCESS

Does ready access to the site exist?	YES	NO
If NO, what is the distance over which a new access road will be built	e distance over which a new access road will be built Approximate	

Describe the type of access road planned:

The N10 runs along the eastern boundary of the site. Due to limited sight distances however, access to the development directly from the N10 is not advisable. Approvals from SANRAL for access from the N10 will therefore also be highly unlikely.

Access will however be obtained from the existing Jooste Eiland Road approximately 100m from an existing intersection with the N10, thereby complying with SANRAL regulation.

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

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 co-ordinates (Indicate the position of the activity using the latitude and longitude of the
 centre point of the site for each alternative site. The co-ordinates 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).

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.

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.

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.

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.

ACTIVITY MOTIVATION

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

• Is the activity permitted in terms of the property's existing land use rights?	YES	NO	Please explain	
The site will need to be rezoned from Agricultural zone I to D.h.2 Ground, B.c.3 Parks and Open Space.	up Housing,	F.d.3 Pri	vate road,	
Will the activity be in line with the following?				
(a) Provincial Spatial Development Framework (PSDF)	YES	NO	Please explain	
The Spatial Development Framework of the //Khara Hais Municipality supports the development the proposed area for mixed use. The current zoning on the property is Agricultural I. Erf 745 is to rezoned to D.h.2 Group Housing, F.d.3 Private road, and, B.c.3 Parks and Open Space for t proposed construction of the housing development.				
(b) Urban edge / Edge of Built environment for the area	YES	NO	Please explain	
The site is located within the urban edge.				
(c) 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?).	YES	NO	Please explain	
The Spatial Development Framework of the //Khara Hais Municipality supports the development of the proposed area for mixed use. The current zoning on the property is Agricultural I. Erf 745 is to be rezoned to D.h.2 Group Housing, F.d.3 Private road, and, B.c.3 Parks and Open Space for the proposed construction of the housing development.				
(d) Approved Structure Plan of the Municipality	YES	NO	Please explain	
Unknown				

(e) 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?)	¥ES	NO	Please explain	
No EMF was identified				
(f) Any other Plans (e.g. Guide Plan)	YES	NO	Please explain	
	1	T	T	
• 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)?				
The Spatial Development Framework of the //Khara Hais Municipal the proposed area for mixed use. The current zoning on the property rezoned to D.h.2 Group Housing, F.d.3 Private road, and, B.c.3 proposed construction of the housing development.	is Agricultur	al I. Erf 7	745 is to be	
Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)	YES	NO	Please explain	
The influx of people, due to the steep increase in employment opportunities in the area, causes a direct increase in the need for goods, services and especially housing in the Upington area. The need and desirability for a housing development, as proposed, thus arises.				
The proposed development will contribute positively to the land value of the involved property, as well as that of surrounding properties. The proposed utilisation of the involved properties will entail a very high quality, partly temporary and partly permanent, residential development that will greatly				

The proposed development will also create temporary job opportunities during the construction phase, and possibly permanent job opportunities during the operational phase.

contribute to the south-eastern entrance of the town of Upington.

•	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.)	YES	NO	Please explain
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According the Engineering Services Report (**Appendix D1**), municipal services directly to the site of the development are limited, but connection to bulk municipal infrastructure is plausible in terms of water, sanitation and electrical reticulation. The scope of the development is of such scale that it is expected to have a limited impact on the bulk municipal services.

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.)	YES	NO	Please explain
Please refer to Appendix I.			
Is this project part of a national programme to address an issue of national concern or importance?	YES	NO	Please explain
However, additional housing opportunities is of national importance			
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.)	YES	NO	Please explain
The site is located within the urban edge and has access to most municonflict the site is located within the urban edge and has access to most municonflict that have been set of the site is located within the urban edge and has access to most municipal that have been set of the site is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access to most municipal that is located within the urban edge and has access that the urban edge and has access to the urban			
Is the development the best practicable environmental option for this land/site?	YES	NO	Please explain
The proposed development will result in the loss of very little indiger and the site is not in an ecologically and botanically sensitive area. The past. However, the development of the site will create much needed how housing, which is seen as a priority. Leaving the site undeveloped (not housing opportunities, and will not create jobs during the construction as	e erf has busing opposition	een distu ortunities,), will not	especially create this
Will the benefits of the proposed land use/development outweigh the negative impacts of it?	YES	NO	Please explain
No significant negative environmental impacts are expected by the project.	posed dev	relopment	:
Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?	YES	NO	Please explain
Not necessarily, but infill development should be a priority for any further	er develop	ment	
Will any person's rights be negatively affected by the	YES	NO	Please explain
proposed activity/ies?			
proposed activity/ies? No person's rights are expected to be negatively affected by the propo is expected to have a general positive impact on the surrounding area.	sed devel	opment. 7	The activity
No person's rights are expected to be negatively affected by the propo	sed devel	opment. T	Please explain

Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?		NO	Please explain
What will the benefits be to society in general and to the communities?	local	Please	explain
The project will provide additional housing opportunities, and provide construction, and possibly, the operational phase	e job op	oportunities	during the
Any other need and desirability considerations related to the proposed activity?		Please explain	
N/A			
How does the project fit into the National Development Plan 2030?	n for	Please	explain

Housing opportunities is a local, provincial and national need.

 Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.

The general objectives of Integrated Environmental Management have been taken into account through the following:

- The actual and potential impacts of the activity on the environment, socio-economic conditions and cultural heritage have been identified, predicted and evaluated, as well as the risks and consequences and alternatives and options for mitigation of activities, with a view to minimizing negative impact, maximizing benefits and promoting compliance with the principles of environmental management please refer to Section D below.
- The effects of the activity on the environment have been considered before actions taken in connection with them alternatives have been considered and investigated (please refer to Section A below).
- Adequate and appropriate opportunity for public participation was ensured through the public participation process please refer to Section C for the public participation information, including the list of identified Interested and Affected parties, as well as the methods for identifying and informing I&APs of the application and proposed activity.
- The environmental attributes have been considered in the management and decision-making of the activity an EMP has been included (**Appendix G**) with the proposed activity and must adhere to the requirements of all applicable state Authorities.
- 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 set out in section 2 of NEMA have been taken into account. The principles pertinent to this activity include:

- People and their needs have been placed at the forefront while serving their physical, psychological, developmental, cultural and social interests the proposed activity will have a beneficial impact on people, as it will provide much needed additional housing opportunities.
- Development must be socially, environmentally and economically sustainable. Where disturbance of ecosystems, loss of biodiversity, pollution and degradation, and landscapes and sites that constitute the nation's cultural heritage cannot be avoided, are minimised and remedied.
- Where waste cannot be avoided, it is minimised and remedied through the implementation and adherence of EMP.
- The use of non-renewable natural resources is responsible and equitable no exploitation of non-renewable natural resources occurs with the proposed activity.
- The negative impacts on the environment and on people's environmental rights have been anticipated and prevented, and where they cannot be prevented, are minimised and remedied *refer to Section F below*.

- The interests, needs and values of all interested and affected parties have been taken into account in any decisions through the Public Participation Process please refer to Section C for the public participation information.
- The social, economic and environmental impacts of the activity have been considered, assessed and evaluated, including the disadvantages and benefits *refer to Section B below.*
- The effects of decisions on all aspects of the environment and all people in the environment have been taken into account, by pursuing what is considered the best practicable environmental option the proposed activity is expected to have minimal/negligible environmental impacts, especially after mitigation measures as described under Section D and E and in the EMP are implemented.

APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

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:

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
Spatial Planning and Land Use Management Act 16 of 2013 (SPLUMA)		Local Municipality	Not yet

WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?	YES	NO
If YES, what estimated quantity will be produced per month? Unknown		m^3

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

The general solid waste generated during construction will be consolidated on site during construction, and disposed of at the nearest approved municipal landfill site.

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

The general solid waste generated during construction will be consolidated on site during construction, and disposed of at the nearest approved municipal landfill site.

Will the activity produce solid waste during its operational phase?	YES	NO
If YES, what estimated quantity will be produced per month?		m^3
How will the solid waste be disposed of (describe)?		

The general household solid waste generated will be collected by the municipality and will be disposed of at the nearest approved municipal landfill site.

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

The general household solid waste generated will be collected by the municipality and will be disposed of at the nearest approved municipal landfill site.

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 in 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

VA /**** 11

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?		
The development is expected to discharge an estimated peak sewage flow of 1.21 l/s that will be pumped to the Rosepark sewage pump station approximately 700m away via a Ø 90mm uPVC Class 6 pipe.		
Rosepark sewage pump station services the Eiland Resort with an estimated occupied peak sewage generation of 3.3 l/s. Rosepark pump station is equipped with 3.3 kW Flyght submersible pumps which can be expected to have an estimated pump capacity in excess of 10 l/s. It can therefore be concluded that an additional peak flow of 1.21 l/s should not present any problems in terms of pump station capacity.		m ³
Will the activity produce any 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 wheth to change to an application for scoping and EIA.	er it is ne	cessary

vviii the activity	produce emilient that will be treated and	or alsposed	i of at another	YES	NO
facility?				1 E O	NO
If YES, provide to	he particulars of the facility:		-		
Facility name:					
Contact					
person:					
Postal					
address:					
Postal code:					
Telephone:	_	Cell:		•	
E-mail:	_	Fax:		•	

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

None

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other that exhaust emissions	YES	NO
and dust associated with construction phase activities?		
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 nece	ssary 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	YES	NO
of the NEM:WA?	1 E O	INO

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

e) Generation of noise

Will the activity generate noise?	YES	NO
If YES, is it controlled by any legislation of any sphere of government?		NO
	-	
Describe the noise in terms of type and level:		
General urban noise associated with a residential development of this size		

WATER USE

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

Municipal	Water board	Groundwater	River, stream, dam or lake	Other		ivity will water
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 Affairs.	provide proof that	at the application	has been submi	tted to the Depa	rtment o	f Water

ENERGY EFFICIENCY

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

N/A

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

N/A

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 entitled "Details of specialist and declaration of in	nterest" f	or each
specialist thus appointed and attach it in Appendix I. All specialist reports must	be conta	ained in
Appendix D.		

Property	Province	Northern Cape			
description/physical	District	ZF Mgcawu District Municipality			
address:	Municipality				
	Local Municipalit	//Khara Hais Municipality			
	Ward Number(s)				
	Farm name an	d Erf 745, Olyvenhoutsdrift			
	number				
	Portion number				
	SG Code				
	Where a large numb	per of properties are involved (e.g. linear activities), please			
	attach a full list to th	is application including the same information as indicated			
	above.				
Current land-use zoni local municipality IDF		cultural Zone I			
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 NO					

GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

Flat	1:50 – 1:20	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	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	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5

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	Х	2.8 Dune	
2.3 Side slope of hill/mountain	2.6 Plain		2.9 Seafront	
2.10 At sea				

GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

	Alternative S1:			tive S2	Alterna	
			(if any):		(if any):	
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	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 Geo Science may also be consulted.

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

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.

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 provide a description of the relevant watercourse.

A canal and siphon run crosses a small portion of the property.

A 31.49m wide unregistered servitude will be maintained over the canal, in which no development will take place. Please refer to Appendix J1 for more information on the canal servitude and the correspondence with Department of Water and Sanitation.



Figure 2: Google Earth image of the site, showing the canal (blue dashed line) crossing the property. The yellow star indicates the position of the photograph taken in Figure 3 below.



Figure 3: View of the canal crossing the property, looking west.

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 description of how this influences the application or may be impacted upon by the application:

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

If any of the boxes marked with an " $^{\text{N}}$ " 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
Core area of a protected area?	YES	NO
Buffer area of a protected area?	YES	NO
Planned expansion area of an existing protected area?	YES	NO
Existing offset area associated with a previous Environmental Authorisation?	YES	NO
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

CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in	YES	NO
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	Unce	ertain
site? If YES, explain:		

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:

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 this permit application has been submitted to SAHRA or the relevant provincial authority.

Please note that the site is larger than 5 000m² and the character of the site will change. The site is also larger than 10 000m² and will be rezoned. The project is therefore subject to Section 38(1) of

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.

Level of unemployment:

According to the //Khara Hais Municipality IDP 2012-2017, the unemployment rate decreased significantly from 34% in 2001 to 22.1% in 2011. There was a huge decline in the youth unemployment rate too from 42.3% in 2001 to 29% in 2011 but the youth unemployment rate is still very high in comparison with the overall unemployment rate of the municipality. Although about 44.7% of the//Khara Hais population are between 14 and 35 years old, youths remains relatively marginalised.

An increase of 5.1% (20.9% in 2001 to 26% in 2011) of people living in //Khara Hais over the age of twenty years have completed the 12th grade while there was a significant decline of 6.5% (13.6 in 2001 to 7.1% in 2011) in people that had no schooling at all. Higher education increases from 20.9% in 2001 to 26% in 2011.

Economic profile of local municipality:

According to StatsSA, the wine industry is the highest contributor to the municipality's economy; and it is also more dominant in Upington. Most of Upington's wines are produced by Orange River Wine Cellars (OWC). The company has six depots in the area (all of them on the banks of the Orange River) at Upington, Kanoneiland, Grootdrink, Kakamas, Keimoes and Groblershoop. The wines from OWC are exported, mainly to Europe and the USA. A number of privately owned cellars also exist in the area. The //Khara Hais region accounts for more or less 40% of South Africa's grape exports.

Tourism is contributing to the economy of the municipality through places like Die Eiland holiday resort.

The economy of Upington relies heavily on agriculture, tourism and the services industry. Many large companies in the wine industry, table grapes, dried fruit and livestock farming have their head offices in Upington. All major South African banks are represented in Upington and numerous shops and retail outlets cater for most needs.

Level of education:

According to the //Khara Hais Municipality IDP 2012-2017, an increase of 5.1% (20.9% in 2001 to 26% in 2011) of people living in //Khara Hais over the age of twenty years have completed the 12th grade while there was a significant decline of 6.5% (13.6 in 2001 to 7.1% in 2011) in people that had no schooling at all. Higher education increases from 20.9% in 2001 to 26% in 2011.

b) Socio-economic value of the activity

To be Confirmed

What is the expected capital value of the activity on completion?	R	
What is the expected yearly income that will be generated by or as a result of the	R	
activity?		
Will the activity contribute to service infrastructure?	YES	NO
Is the activity a public amenity?	YES	NO
How many new employment opportunities will be created in the development and		
construction phase of the activity/ies?		
What is the expected value of the employment opportunities during the	R	
development and construction phase?		
What percentage of this will accrue to previously disadvantaged individuals?	%	
How many permanent new employment opportunities will be created during the		
operational phase of the activity?		
What is the expected current value of the employment opportunities during the	R	
first 10 years?		
What percentage of this will accrue to previously disadvantaged individuals?	%	

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. 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			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)	N/A. No CBAs were identified on SANBI BGIS

b) Indicate and describe the habitat condition on site

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	%	
Near Natural (includes areas with low to moderate level of alien invasive plants)	%	
Degraded (includes areas heavily invaded by alien plants)	70 %	The site is almost completely degraded, with very little indigenous vegetation left on the site.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	30%	Parts of the site has been completely transformed

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						
Ecosystem threat	Critical	Wetlan	d (includ	ling rivers,				
status as per the	Endangered	depressions, channelled and unchanneled wetlands, flats,		Estuary		Coastline		
National	Vulnerable							
Environmental		seeps pans, and artificial						
Management:	Least	wetlands)						
Biodiversity Act (Act	Threatened	YES	NO	UNSURE	YES	NO	YES	NO
No. 10 of 2004)		120	110	ONOONE	120	1	120	110

d) Please provide a description of 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)

The site would historically have been covered in Bushmanland Arid Grassland (Least Threatened). However, very little remains due to activities on the site. The site has been heavily impacted by illegal public dumping of rubble and litter.

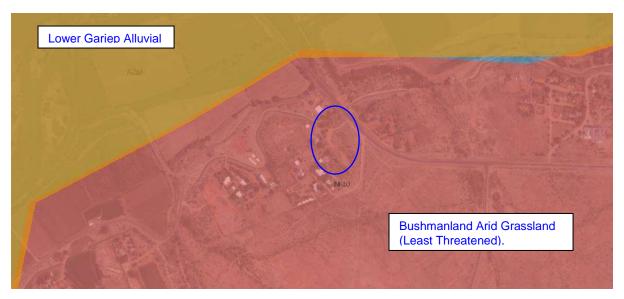


Figure 5: SANBI BGIS map showing the vegetation cover of the area. The site is indicated by the blue polygon.



Figure 6: General view of the site. The illegal public dumping of rubble on the site is evident



Figure 6: General view of the site.



Figure 7: General view of the site.

SECTION C: PUBLIC PARTICIPATION

ADVERTISEMENT AND NOTICE

Publication name	Die Gemsbok	
Date published	13 March 2015	
Site notice position	Latitude	Longitude
Date placed	See Appendix E1	

Include proof of the placement of the relevant advertisements and notices in Appendix E1.

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.

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)
		e-man address)

Include proof that the key stakeholder received written notification of the proposed activities as 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 by the competent authority.

ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
No comments were received during the initial PPP period	

COMMENTS AND RESPONSE REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the Draft 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 Final BAR as Appendix E3.

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
NC Department of Agriculture & Land Reform	W. Mothibi (HOD)	(053)838 9102			Private Bag X5018, Kimberley, 8300
Department of Cooperative Governance, Human Settlements and Traditional Affairs (NC)	Gladys Botha	053 830 9513			Private bag X5005, Kimberley, 8300
Department of Roads and Public Works	K. Nogwili (HOD)	(053)839 2241			P O Box 3132, Kimberley, 8300
Directorate Forestry Management	J. Mans	054 338 5909			PO Box 2782, Upington, 8800
Department of Water and Sanitation	A. Abrahams	053 830 8803	053 831 4534		28 Central Road, Beaconsfield, Kimberley, 8301
Department of Water Affairs- Northern Cape	R. Mazwi	053 7731239			Private Bag X6101, Kimberley, 8300
SAHRA	C. Scheermeyer	021 462 4502			P.O.Box 4637, Cape Town, 8000

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.

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 prior to the commencement of the public participation process.

A list of registered I&APs must be included as 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.

 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.

Activity	Impact summary	Significance	Proposed mitigation
	1 (preferred alternative)		
	Direct impacts: Potential impact on freshwater ecosystems	Negligible	 Excess material (and concrete slabs and pipes) should not be dumped into the canal or any riparian zones and must be removed from site; Any exotic trees currently growing in the riparian zones should be cut and the stumps treated with herbicide to prevent re-growth; Appropriate construction methods should be deployed to ensure the prevention of erosion of the canal
	The loss of cultural or historic aspects during construction	Negligible	If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to SAHRA and must not be disturbed further until the necessary approval has been obtained from SAHRA. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency. The ECO and Engineer are also to be informed.

	Indirect impacts:		
	Temporary jobs will be created in the construction industry during the construction phase.	Low - positive	No mitigation measures are required. Temporary jobs will be created during the construction phase
	Cumulative impacts:		
	Direct impacts:	Negligible	Indiscriminate clearing of areas must
	Loss of vegetation - Direct loss of vegetation type and associated habitat due to construction and operational activities.	regligible	 Indiscriminate clearing of areas must be avoided (all remaining areas to remain as natural as possible). All topsoil (at all excavation sites) should be removed and stored separately for re-use for rehabilitation purposes. The topsoil and vegetation should be replaced over the disturbed soil to provide a source of seed and a seed bed to encourage re-growth of the species removed during construction. Once the construction is completed all further movement must be confined to the access tracks to allow the vegetation to re-establish over the excavated areas. Rehabilitation must be done after construction. All construction must be done in accordance with an approved construction and operational phase Environmental Management Plan (EMP), which must be developed by a suitably experienced Environmental Assessment Practitioner. A suitably qualified Environmental Control Officer must be appointed to monitor the construction phase in terms of the EMP and the Biodiversity study recommendations as well as any other conditions which might be required by the Department of Environmental Affairs. All rubble and rubbish (if applicable) must be collected and removed from the site to a suitable registered waste disposal site. All alien vegetation should be removed from all associated footprints within the various construction sites
	Indirect impacts:		
	Cumulative impacts:		
Alternative 2		1	
	Direct impacts:		
-	•	•	•

	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
Alternative 3			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
No-go option	1		
	Direct impacts: No additional housing opportunities will be provided	Low - negative	N/A
	Indirect impacts:		
	Cumulative impacts:		

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

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 <u>after</u> 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 actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The following is a summary of the potential impacts, and their ratings after mitigation, and probability of occurrence:

Construction phase.

Freshwater ecosystems - Negligible probable.

Loss of vegetation- Negligible, possible.

Potential impacts on heritage resources - Negligible Possible.

Job creation - Low (Positive), definite.

Noise impact - Negligible, definite, only during construction phase.

Visual impact – Low (negative), definite, during construction

Operational Phase

Geographical and/or physical aspects - No impact expected

Freshwater ecosystems - No impact expected

Potential impacts on archaeological heritage - No impact expected

Socio-economic (additional housing opportunities - Low (Positive), Probable

Noise impact - No impact expected

Visual impact - No impact expected

Decommissioning

The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.

Alternative B

Alternative C

No-go alternative (compulsory)

No additional housing opportunities will be provided - Low - negative, Probable

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached her	reto	
sufficient to make a decision in respect of the activity applied for (in the view of	the YES	NO
environmental assessment practitioner)?		

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 further assessment).

N/A

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.

Compliance with the EMP and appointment of an ECO	during the construction phase.
---------------------------------------------------	--------------------------------

ls 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 as 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.

NAME OF EAP	
SIGNATURE OF EAP	DATE

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix E: Public Participation

Appendix F: Impact Assessment

Appendix G: Environmental Management Programme (EMPr)

Appendix H: Details of EAP and expertise

Appendix I: Specialist's declaration of interest

Appendix J: Additional Information