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**Rural, Environment and Agricultural
Development**
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

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CHIEF DIRECTORATE: ENVIRONMENTAL SERVICES
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Provincial Reference Number:
NEAS Ref 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:

1. 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.
2. This report format is current as of **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
3. 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.
4. Where applicable tick the boxes that are applicable in the report.
5. The use of "not applicable" in the report must be done with circumspection. An incomplete report or that does not meet the requirements in terms of Regulation 19 of the NEMA EIA Regulations, 2014, will be rejected to be revised and be resubmitted.
6. The report must be handed in at offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed reports will be accepted.
8. The signature of the Environmental Assessment Practitioner (EAP) on the report must be an original.
9. The report must be compiled by an independent EAP.
10. 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.
11. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
12. 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.
13. Two (2) colour hard copies and one (1) electronic copy of the report must be submitted to the competent authority.
14. Shape files (.shp) for maps must be included on the electronic copy of the report submitted to the competent authority.

SECTION A: ACTIVITY INFORMATION

1. PROJECT DESCRIPTION

a) Describe the project in association with the listed activities applied for

The proposed project comprises the development of a residential township with offices. The site is roughly 18 ha in size and is currently largely undeveloped but disturbed due to historic agricultural activities and existing structures. The planned infrastructure in the township will include: residential units, offices, internal roads, private open space, infrastructure for bulk services (water supply and sewerage, storm water management).

Possible construction phase activities that may occur with the proposed development on-site:

- Clearance of vegetation (large indigenous trees will be retained and incorporated into the development where possible. No Marula trees are to be removed);
- Earthworks;
- Delivery of construction equipment and material to the site;
- Movement of construction vehicles and equipment on site and around the site;
- Bulk services (sewerage, electricity and water supply) installation;
- Storm water infrastructure will need to be installed;
- Construction of internal roads; and
- Construction of residential units and offices.

The development includes the following:

- Houses (residential units) – residential 1 across 5.75ha (30.9% of area) for 57 stands and residential 2 across 6.37ha (34.2% of area) for three (3) stands (30 units/ha)
- Special for Offices etc. across 3.37ha (18.1% of area)
- Roads across 2.28ha (12.3% of area) and access control (0.098ha)
- Private open space across 0.74ha (4% of area)
- Memorial sites (2) moved to existing graves' location (kept undisturbed)

Specialist studies:

The following specialist studies were undertaken as part of the project:

Fauna and Flora Study (African Litany, March 2017)

The site is still covered in mainly indigenous vegetation; therefore an ecological study was conducted by African Litany to determine the impact on the natural environment (fauna and flora). Findings indicate that the environment is significantly disturbed and transformed in the *Vulnerable* Moot Plains Bushveld vegetation area (eastern section), while the Gold Reef Mountain Bushveld vegetation area, which has a *Least Threatened* conservation status (western section), is relatively undisturbed.

Heritage Impact Assessment Study (Archaetnos, March 2017)

A heritage impact specialist study was conducted to assess the potential impacts on the cultural heritage of the project area. Findings indicate that two (2) memorials and graves occur within the project site.



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

Listed activity as described in GN R.983, 984 and 985	Description of project activity
<p>Example: GN R.983 Activity 12(iii): The development of a bridge exceeding 100 square metres where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such development will occur within existing roads or roads reserve.</p>	<p>A bridge measuring 10m in length, 12 metres wide will be built over the Crocodile river</p>
<p>GNR327, Activity 27: 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:</p> <p>(i) the undertaking of linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan</p>	<p>The property is approximately 18 ha in size and most of the site will be cleared for the development. Some areas on the site have been previously cleared for existing buildings and farming activities (mango trees) but there are areas with indigenous vegetation remaining.</p>
<p>GNR327, Activity 28: Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or after 01 April 1998 and where such development</p> <p>(i) will occur inside urban area where the total land to be developed is bigger than 5 hectares, excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.</p>	<p>The development will be residential with offices. There are still mango trees (agricultural activities) on the property. The property is located within the urban edge of Rustenburg Local Municipality (RLM) and is larger than 5 ha.</p>
<p>GNR324, Activity 4: The development of a road wider than 4 metres with a reserve less than 13.5m.</p> <p>(h) North West (ii) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority. (vi) Areas within 5 kilometres from protected area identified in terms of NEMPAA or from a biosphere.</p>	<p>Internal roads may be more than 4 m wide. This area is within the 2.5 km buffer of the Magaliesberg Protected Environment (MPE) (MPE Environmental Management Framework, 2007) and within the Transitional Zone of the Magaliesberg Biosphere.</p>
<p>GNR324, Activity 12: The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is</p>	<p>More than 300 m² indigenous vegetation will be cleared on the site, which is designated as an Ecological Support Area (ESA) and located within the MPE buffer of 2.5 km</p>



required for maintenance purposes undertaken in accordance with a maintenance management plan. (h) North West (v) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority.	according to the MPE EMF (2007).
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c) Property description/physical address

Province	North West Province
District Municipality	Bojanala District Municipality
Local Municipality	Rustenburg Local Municipality
Ward Number(s)	17
Farm name and number	Waterkloof 305 JQ
Portion number	Portions 72 and 162
21 digit Surveyor General Code	TOJQ00000000030500072 TOJQ00000000030500162

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

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 EIA Regulation, 2014 Appendix 1(h) . 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.

Should the alternatives include different locations and lay-outs, the co-ordinates of the different alternatives must be provided. The co-ordinates should be in degrees, minutes and seconds using the Hartebeeshoek94 WGS84 co-ordinate system.

a) **Site alternatives**

List alternative sites, if applicable.

Site Alternatives	Description
Alternative Site 1 (preferred or only site alternative)	The preferred site alternative is Portions 72 and 162 of the farm Waterkloof 305 JQ. The site is conveniently located along the R24 (visible and easy access) and within the urban edge (service provision). The site is surrounded by land with either existing, planned and / or approved residential and commercial land use rights.
Alternative Site 2	No alternative sites have been considered for the development since this site was purchased for this specific development purpose.
Alternative Site 3	

Site Co-ordinates

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only site alternative)

25°	42'	46.40"	27°	15'	04.86"
0	'	"	0	'	"
0	'	"	0	'	"

Alternative S2 (if any)

Alternative S3 (if any)

In the case of linear activities:

Alternative:

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only route alternative)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

0	'	"	0	'	"
0	'	"	0	'	"
0	'	"	0	'	"

Alternative S2 (if any)



- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

0	'	"	0	'	"
0	'	"	0	'	"
0	'	"	0	'	"

Alternative S3 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

0	'	"	0	'	"
0	'	"	0	'	"
0	'	"	0	'	"

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 metres 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.



b) Lay-out alternatives

Alternatives	Description
Alternative 1 (preferred or only alternative)	The preferred layout includes residential units and offices.
Alternative 2	The alternative layout includes only residential units. However, the potential impacts will be similar.
Alternative 3	

c) Technology alternatives

Alternatives	Description
Alternative 1 (preferred or only alternative)	The internal sewers will be connected to the existing Rustenburg Local Municipality (RLM) bulk sewerage infrastructure. The flow will be gravitational.
Alternative 2	No alternatives were considered for the proposed development since this is the best practicable option. No pump station is required due to the slope of the site. Sewage can flow by gravitation to the existing bulk infrastructure located at the lowest point (R24). The development is too small to establish its own wastewater treatment works and it is in close proximity to existing bulk municipal infrastructure.
Alternative 3	

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

Alternatives	Description
Alternative 1 (preferred or only alternative)	No other alternatives were considered for the proposed development.
Alternative 2	
Alternative 3	

e) No-go alternative

The proposed activity aims to establish a residential and office development that will contribute to the development and growth of Rustenburg within the urban edge, consequently adding to the Gross Domestic Product (GDP) of the city as a whole. Not allowing the development will eliminate this contribution and will result in vacant land in between existing developments (Waterkloof East X6, Cashan and Cynthiana Hotel site (NWP/EIA/02/2016) within the urban edge, which may pose a safety risk.

f) Please motivate for preferred site, activity and technology alternative

Portions 72 and 162 of the farm Waterkloof 305 JQ is the preferred site for the residential and office development as it is within the urban edge and the site is located between other similar developments (residential, business, commercial). There is no other site that can better accommodate the development and therefore this site was purchased for this purpose. The services for the development will be connected to the existing bulk services provided by the RLM.



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:

Size of the activity:

Alternative A1¹ (preferred activity alternative)

189 151 m ²

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)

189 151 m ²

Alternative A2 (if any)

m ²

Alternative A3 (if any)

m ²

4. SITE ACCESS

Does ready access to the site exist?

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

m

Describe the type of access road planned:

Access will be from the existing R24 that is currently being upgraded and widened. The intersection between this site and Portion 385 (Cynthiana Hotel) is currently being established (road name unknown). This access road will also provide access to other residential developments.

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.

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);
- the accurate indication of the site in relation to closest protected environments or national parks (i.e. within 2.5 km)
- 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, minutes and seconds using the Hartebeeshoek94 WGS84 co-ordinate system)

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 B 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 Department of Water and Sanitation);
 - ridges;
 - for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or infested with alien species); and
 - critical biodiversity areas and ecological support area.
 - protected areas (e.g Magaliesberg Protected Environment, Pilanesberg National Park etc.)
- The sensitivity map must also cover areas within 100m of the site and must be part of Appendix B.

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 C 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 D 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):

1. Is the activity permitted in terms of the property's existing land use rights?	YES	NO	Please explain
The current zoning for the proposed project area is agricultural land use. The rezoning of the project area is currently underway (township establishment for residential and offices).			
2. Will the activity be in line with the following?			
(a) Provincial Spatial Development Framework (PSDF)	YES	NO	Please explain
The PSDF motivates urban development to supply housing to the province.			
(b) Urban edge / Edge of Built environment for the area	YES	NO	Please explain
The project area is located within the urban edge and therefore will not result in urban sprawl.			



(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
According to the Rustenburg Spatial Development Framework (SDF, 2010), the proposed project area is earmarked for multiple residential land use, therefore the proposed project is in line with the municipal SDF and IDP to supply housing within the urban edge.			
(d) Approved Structure Plan of the Municipality	YES	NO	Please explain
The RLM Housing Sector Plan analysed the total overall municipal housing need, as well as the spatial disaggregation housing need per settlement cluster. The figures have shown that there is significant backlog in housing; therefore the proposed project is in line with the Structure Plan of Rustenburg.			
(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?)	YES	NO	Please explain
According to the Rustenburg EMF, the project area is located in the Agricultural Holdings Management Zone. The development will promote infill and densification within the urban edge. The farm portion is currently not used for commercial agricultural purposes and will be rezoned for township establishment, providing a sustainable housing solution to the current housing demand in Rustenburg. The entire MPE is considered as a sensitive area and the proposed residential development is located within the 2.5 km buffer zone of the MPE. Many different land uses including residential, commercial, retail, industrial and institutional use occur within the MPE buffer zone.			
(f) Any other Plans (e.g. Guide Plan)	YES	NO	Please explain
All plans generated by authorities were considered and the proposed development will not contravene any other plans.			



3. 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)?	YES	NO	Please explain
The proposed project area is earmarked for multiple residential land use and due to the backlog in housing for this region, residential developments is a priority.			
4. 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 backlog for housing is estimated to be as high as 60 000 units, therefore there is a need for housing in the Rustenburg area. The project will also create employment opportunities for the local people including the less skilled workers during the construction phase. There is therefore a need for the project.			
5. 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 E.)	YES	NO	Please explain
The proposed development is located within the urban edge and therefore supply of services is the responsibility of the Local Municipality. The services are available in the area but are not connected to the project site. The bulk services infrastructure must connect to the project area prior to commencement of the development. The amount of bulk services contributions for civil services will be determined with compilation of the service agreement. The RLM Wastewater Treatment Works has adequate capacity.			
6. 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
The proposed development is located in the urban edge and therefore supply of services is the responsibility of the municipality. For this reason, it must be a part of the infrastructure planning of the municipality. Although, currently, the project site is not linked to municipal bulk services, the infrastructure is in close proximity (border of the property - along R24).			
7. Is this project part of a national programme to address an issue of national concern or importance?	YES	NO	Please explain
The provision of housing and employment is a national concern, specifically to the Rustenburg region where there have been mining strikes and where there is a backlog in supplying housing.			



8. 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
There are existing housing developments and retail developments surrounding the proposed development. It is within the urban edge and close to all amenities that will be required by residents, hence making land use favourable.			
9. Is the development the best practicable environmental option for this land/site?	YES	NO	Please explain
Due to the fact that the property is located within the urban edge and that there are residential, commercial and business developments surrounding the property, this land use is best suited.			
10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?	YES	NO	Please explain
If mitigation is applied during the construction phase as suggested, the positive socio-economic impacts will outweigh the potential negative impacts. The vulnerable vegetation unit within the property has already been disturbed by previous land use activities.			
11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?	YES	NO	Please explain
There are already residential developments surrounding the proposed project area and within the region.			
12. Will any person's rights be negatively affected by the proposed activity/ies?	YES	NO	Please explain
There is no predicted violation of any person's rights based on the scope of the development.			
13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?	YES	NO	Please explain
The proposed development is located within the urban edge, hence it will not result in urban sprawl.			
14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?	YES	NO	Please explain
SIP includes the unlocking of economic opportunities in the North West Province, although this project is not listed directly, it does contribute to the current socio-economic structure.			



15. What will the benefits be to society in general and to the local communities?	Please explain
The provision of formal housing for the local people in the area will be a positive impact. Jobs will also be created during both the construction (construction workers and contractors) and the operational phase (gardeners, domestic workers, security), consequently adding to the Gross Domestic Product (GDP) of the city as a whole.	
16. Any other need and desirability considerations related to the proposed activity?	Please explain
Shortage of housing in Rustenburg makes the proposed development desirable.	
17. How does the project fit into the National Development Plan for 2030?	Please explain
The proposed project will create employment and lead to economic growth, which is in line with the National Development Plan.	
18. Please describe how the general objectives of Integrated Environmental Management as set out in Section 23 of NEMA as amended have been taken into account.	
Environmental tools such as impact assessments have been used to ensure integrated environmental management.	
19. Please describe how the principles of environmental management as set out in Section 2 of NEMA as amended have been taken into account.	
All environmental and socio-economic impacts have been taken into account, including the associated consequences and alternatives to mitigate predicted negative impacts.	

11. 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
Constitution of South Africa, 1996 (Act 108 of 1996)	Section 24 states that: Everyone has the right to an environment that is not harmful to their health or well-being; and to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures that prevent pollution and	Department of Justice and Constitutional Court	1996



Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
	<p>ecological degradation; promote conservation; and secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development."</p> <p>Section 26 states that: Everyone has the right to have access to adequate housing. The state must take reasonable legislative and other measures, within its available resources, to achieve the progressive realisation of this right.</p> <p><i>This project provides housing without impacting on any one's constitutional right. The Environmental Management Programme (EMP) ensure environmental protection.</i></p>		
National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) as amended	<p>Government Notice Regulations (GNR) 324, 325, 326 and 327 of 7 April 2017 contain the regulations pertaining to EIA under sections 24(5), 24M and 44 of the NEMA.</p> <p>The project falls under the listed activities of GNR324 Activities 27 and 28 and GNR327 Activities 4 and 12.</p>	National (DEA) and Provincial (NW READ)	1998 (amended 2010)
Conservation of Agricultural Resources Act (CARA), 1983 (Act 43 of 1983)	<p><i>The project area is currently agricultural land.</i></p> <p>The aim of the Act is to provide for control over the utilization of the natural agricultural resources of the Republic in order to</p>	Department of Agriculture, Forestry and Fisheries (DAFF)	1983



Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
	<p>promote the conservation of the soil, the water sources and the vegetation and the combating of weeds and invader plants.</p>		
<p>National Forests Act, 1998 (Act 84 of 1998)</p>	<p>Forest species may have an impact on the environment and need to be managed appropriately, this includes invaders like <i>Eucalyptus</i> or <i>Pinus</i> species encroaching the riparian vegetation that impact on indigenous flora and river flows. Protected forest trees as listed by this Act may also be a concern.</p> <p><i>No Marula trees were noted on the site but they do occur in the area (seen on neighbouring property) and if any are encountered, they should not be cleared but protected.</i></p>	<p>DAFF</p>	<p>1998</p>
<p>National Heritage Resources Act (NHRA), 1999 (Act 25 of 1999)</p>	<p>Aspects concerning the conservation of cultural resources are dealt with in this Act and need to be considered to determine if there are any sites of heritage value that require protection/mitigation.</p> <p><i>Graves were discovered on the property as well as two (2) memorials.</i></p>	<p>South African Heritage Resources Agency</p>	<p>1999</p>
<p>National Environmental Management: Biodiversity Act (NEMBA), 2004 (Act 10 of 2004)</p>	<p>One of the objectives of this Act is to provide for the management and conservation of South Africa's biodiversity within the framework of the NEMA and to ensure the sustainable use of indigenous biological</p>	<p>DEA & NW READ</p>	<p>2004</p>



Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
	<p>resources. Part 2 of NEMBA provides for listing of species that are threatened or in need of protection.</p> <p><i>The site falls within an Ecological Support Area (ESA).</i></p> <p>Alien and Invasive Species are listed under GNR 599 (1 August 2014). Alien species as identified in the specialist fauna and flora study, need to be controlled as per regulations.</p>		
National Environmental Management: Protected Areas Act (NEMPAA), 2003 (Act 57 of 2003)	<i>The property falls within the 2.5 km buffer of the MPE and within the Transitional Zone of the Magaliesberg Biosphere.</i>	DEA & NW READ	2003
Rustenburg Spatial Development Framework (SDF), North West, 2010.	<i>To determine if the project is in line with spatial development plans and environmental management frameworks developed by the municipality.</i>	RLM	2010
Rustenburg Strategic Environmental Assessment (SEA), 2003.	<i>Old document but still has useful information in terms of long-term planning.</i>	RLM	2003
Rustenburg Land Use Management Scheme (LUMS), 2005.	<i>In terms of land uses.</i>	RLM	2005
MPE Environmental Management Framework (EMF) and Plan. Draft. October 2007	<i>Since the project is located within the buffer zone of the MPE.</i>	NW READ	2007
North West Biodiversity Sector Plan, 2015	<i>The property is identified as an Ecological Support Area (ESA) 1 and 2.</i>	NW READ	2015



12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

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

YES	NO
100 000m ³	

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

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

Solid construction waste from the site will include:
 Building rubble generated from demolition of existing buildings and during construction of new infrastructure/structures/buildings and soil from excavated land. The existing house will remain and be converted into offices.

Biodegradable/organic waste will include:
 Soil and grass cover that will be removed during the construction phase for the establishment of infrastructure/structures resulting in garden type biodegradable waste.

General waste will include:
 Waste generated by builders on site (food containers, plastic, paper etc.).

All solid waste will be removed from site and disposed of at the licensed local municipal waste disposal facility in Rustenburg. The waste will be collected in skips (to be placed on site by the construction contractor) and transported to the waste disposal site by the appointed construction contractor. No special handling or disposal methods will be required and landfill/ landbuild is adequate due to the wide-ranging general nature of waste produced.

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

Solid waste will be collected in skips / bins and disposed to the local landfill site in Rustenburg (Waterval Landfill Site).

Will the activity produce solid waste during its operational phase?

YES	NO
40 m ³	

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

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



Solid waste generated during the operational phase, will be typical household/office waste. Domestic type waste will be removed from the site and transported by a waste contractor (RLM) to a licensed municipal waste disposal site in Rustenburg. The (domestic) general type solid waste mainly consists of the following:

Domestic waste (for possible recycling off site ensure separation on site) including:

- Glass;
- Plastics;
- Paper;
- Metals (cans);

Biodegradable waste including:

- Food waste;
- Garden waste (possible removal off site to composting facility); and
- Paper (possible recycling).

Small quantities of hazardous waste diluted in the waste stream including:

- Chemicals (mainly household chemicals used for domestic cleaning purposes);
- Fuel spillages
- Oil spillages.

This waste will feed into the municipal waste stream. Therefore, it will be stored in bins/bags by residents/tenants, which will be collected on a weekly basis by the municipality or its contractor for disposal to the local municipal landfill site in Rustenburg. The waste can be classified as a general type of waste and therefore no special handling or disposal methods are required and normal landfilling or landbuilding type disposal will be acceptable. The hazardous solid waste quantities will be minimal and diluted within the general stream as is the case in all municipal waste streams. Recycling should be encouraged by the local municipality by providing recycling domes for collection of recyclable waste such as glass, plastic, paper etc.

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

The Waterval General Waste Disposal Facility, for the RLM, located approximately 5km southeast of Rustenburg. The site is approximately 115 hectares in extent and is surrounded by embankments, also known as berms.

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

Waste will feed into the municipal waste stream.

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

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 ³	
----------------	--

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

YES	NO
-----	----

 If YES, describe the type of effluent and the disposal mechanism/method

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:

Facility name:	Rustenburg Wastewater Treatment Works		
Contact person:	Ms Ziyanda Mateta		
Postal address:	P.O. Box 16, Rustenburg		
Postal code:	0300		
Telephone:	014 590 3530	Cell:	
E-mail:	zmateta@rustenburg.gov.za	Fax:	

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

Recycling: Technologies, which are available for recycling and can be considered by the applicant include the recycling of grey water and rain water harvesting.

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:



During the construction phase of the activity, emissions may be expected from:

- Exhausts due to increased traffic flows of construction vehicles to and from the site and construction equipment exhausts systems.
- Dust generation as a result of ground clearance (removal of vegetation), construction works (earth works) and associated vehicle movement.

As far as the operational phase of the activity is concerned, emissions released into the atmosphere would be typical of that expected from any type of residential development such as vehicle exhausts and burning of coal for braai purposes.

d) Waste Licence/Registration

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

YES	NO
-----	----

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

e) Generation of noise

Will the activity generate noise?

YES	NO
YES	NO

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

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.

If NO, describe the noise in terms of type and level:

During the construction phase, construction vehicles and equipment will definitely disturb the ambient environment of the surrounding businesses and residential units.

During the operational phase, a local increase in the number of residents, once the development is complete, will increase the noise levels in the area due to a concentrated influx of people. Aside from vehicular traffic increasing, ambient noise levels will also most probably increase due to people talking, shouting, children playing, dogs barking, music playing etc. However, this is expected for any residential area. Noise from traffic on the R24 will also be heard on the property. Noise levels will have to comply with municipal bylaws on noise during the operational phase.

13. WATER USE

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

<input type="checkbox"/> Municipal	<input type="checkbox"/> Water-board	<input type="checkbox"/> Groundwater	<input type="checkbox"/> River, stream, dam or lake	<input type="checkbox"/> Other	<input type="checkbox"/> The activity will not use water
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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:

	litres
YES	NO

Does the activity require a water use authorisation (general authorisation or water use licence) from the Department of Water and Sanitation?

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



14. ENERGY EFFICIENCY

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

None. It will depend on the owners of the new units and his/her decision on the possible use of energy efficient technologies (energy saving light bulbs, solar panels, solar geysers etc)

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

No alternative energy sources have been taken into account or been built into the design of the activity. Municipal electricity is the only energy supply source that will be utilized for the proposed project.

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 F.



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, as it appears on the Site Plan.
- Paragraphs 1 - 6 below must be completed for each alternative.

Current land-use zoning as per local municipality IDP/records:

Agriculture

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

1. 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
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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
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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
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2. LOCATION IN LANDSCAPE

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

2.1 Ridgeline	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input checked="" type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>



3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (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.

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 ^E - western section of property	Natural veld with scattered aliens ^E	Natural veld with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens - around the existing house
Sport field	Cultivated land - mango trees	Paved surface	Building or other structure - existing houses and structures	Bare soil - road traversing the property

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.

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

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

The closest wetland is located on the other side of the R24.

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

Natural area - MPE	Dam or reservoir – old reservoir on site	Polo fields
Low density residential – neighbouring properties	Hospital/medical centre	Filling station ^H – authorised on portion 385 (neighbouring property)
Medium density residential	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential ^A	Church	Agriculture – mango trees
Retail commercial & warehousing – neighbouring site portion 385	Old age home	River, stream or wetland ^N
Light industrial	Sewage treatment plant ^A	Nature conservation area ^N
Medium industrial ^{AN}	Train station or shunting yard ^N	Mountain, koppie or ridge ^N
Heavy industrial ^{AN}	Railway line ^N	Museum
Power station	Major road (4 lanes or more) ^N – R24	Historical building ^N
Office/consulting room	Airport ^N	Protected Area ^N - MPE
Military or police base/station/compound	Harbour	Graveyard ^N – family graves on site



Spoil heap or slimes dam ^A	Sport facilities	Archaeological site ^N – 2 graves and 2 memorials on site
Quarry, sand or borrow pit	Golf course	Other land uses (describe)

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

The R24 is situated on the eastern boundary of the project area. It is a positive impact as it provides easy access to the site. Houses will be built to the west of the property and be shielded from the noise by the offices. See cultural heritage report in terms of graves.

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:

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:

The filling station on the neighbouring property (Portion 385) has been approved (NWP/EIA/02/2016) but not yet build. It is uncertain whether the developer will proceed with the filling station as initially planned.

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

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix B (as part of sensitivity map).

7. 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 B 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)	Proximity to MPE and within its buffer zone. Located within the Biosphere transitional zone.

- 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	60%	The Least Threatened vegetation type (Gold Reef Mountain Bushveld Unit) that is located in upper two thirds section of the property is still relatively natural and undisturbed.
Near Natural (includes areas with low to moderate level of alien invasive plants)	5%	
Degraded (includes areas heavily invaded by alien plants)	5%	
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	30%	Mango trees, road, structures/buildings with associated residential garden



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 status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)		
	Endangered			
	Vulnerable 33% but disturbed			
	Least Threatened 67%			
		YES	NO	UNSURE

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 specialist ecological study indicated that the vegetation types occurring within the project site include the *Moot Plains Bushveld SVcb 8* (lower section closer to the R24 road) and the *Gold Reef Mountain Bushveld SVcb 9* (upper hillslope portion). No Red List floral or faunal species were seen during the site survey.

8. 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	

A cultural heritage (including archaeological) specialist study was conducted and there are graves and memorials on the property.

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:



Graves (2) and memorials (2) were identified. It should be noted that the subterranean presence of archaeological and/or historical sites, features or artefacts is always a distinct possibility. Operating controls and monitoring should therefore be aimed at the possible unearthing of such features. Care should therefore be taken when development commences that if any of these are discovered, a qualified archaeologist be called in to investigate the occurrence.

Will any building or structure older than 60 years be affected in any way?

YES	NO
YES	NO

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

If YES, please provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

9. 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:

The estimated unemployment rates in the RLM have decreased from 31.8% in 2001 to 26.42% in 2011. A further notable feature is the significant differences between the levels of unemployment between the male and female population. The unemployment rate of the male population in 2010 was 18.1%, compared to the 46.3% of the female population and in 2015 it was 10.6 % for males and 21.1% for females.

Economic profile of local municipality:

RLM contributes more than 3% to the National Gross Value Added (GVA) (2016), the dominant economic sector being mining, which contributes to more than 60% of the GVA of the municipality. The type of mining done in Rustenburg is also relatively labour intensive - it employs more than 50% of Rustenburg's people. The manufacturing and retail sectors accounts for 5.7% and 10%, respectively of the employment in the municipality. All other economic sectors contribute less than 10% each of the GVA of Rustenburg (2016). The growth rate for Rustenburg is more than 3.5%.

Level of education:

It is generally recognized that the skills profile of a particular area has a significant influence on the economic performance and growth of that region. Although significant



progress has been made with the eradication of adult illiteracy (decreasing from approximately 12% to 6.7%), the majority of the adult population have only completed some form of secondary education as highest qualification (representing just over 40% of the total adult population). 5% of population have had no schooling. There are no significant differences between the gender education profiles, although a slightly higher percentage of the male population has only completed primary education compared to the female population. In both categories, the percentage of the adult population with some form of tertiary qualification remains very low.

b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R 30 million	
What is the expected yearly income that will be generated by or as a result of the activity?	R 5 million	
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?	100	
What is the expected value of the employment opportunities during the development and construction phase?	R 2.1 million	
What percentage of this will accrue to previously disadvantaged individuals?	80 %	
How many permanent new employment opportunities will be created during the operational phase of the activity?	30	
What is the expected current value of the employment opportunities during the first 10 years?	R 12.6 million	
What percentage of this will accrue to previously disadvantaged individuals?	90 %	

10. SPECIALIST(S) CONSULTATION

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

YES	NO
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 If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix F. All specialist reports must be contained in Appendix G and must meet the requirement in Appendix 6 of EIA Regulations, 2014.



SECTION C: 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.

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
Site clearing will remove vegetation and faunal habitat	<p>Direct impacts: Loss of biodiversity and a reduction in faunal and flora habitat.</p> <ul style="list-style-type: none"> The site is located within the buffer zone of the Magalies Protected Environment (MPE), an area legislated as a protected area. Degradation of the area through a loss of plant cover. This may have an impact on threatened and conservation-worthy plant species. Removal of soil cover may lead to erosion and to an increase in the rate of stormwater flow (due to relatively steep slopes of project area). Vegetation removal will cause fauna to move away and reduce extent of faunal habitat; Establishment and spread of declared weeds and alien invader plants; and Alien vegetation species are more prominent near disturbances relative to less disturbed areas. 	Moderately High	<ul style="list-style-type: none"> To remain within demarcated areas during construction to limit disturbances to surrounding areas; To remove all exotic/invasive species as Conservation of Agricultural Resources Act (CARA), 1983 (Act 43 of 1983) and National Environmental Management Biodiversity Act (NEMBA), 2004 (Act 10 of 2004) requires; To limit construction activities to the day time and working hours for the purpose of not disturbing activities and ecological processes of nocturnal birds, small mammal etc.; No material (animals, plant, trees for firewood, rocks) may be removed from the nearby MPE area and no fauna species encountered may be harmed, trapped or captured, <i>i.e.</i> poaching is forbidden; Signage indicating conduct on property, such as no littering, no removal of trees or animals, no pets, no harm



Activity	Impact summary	Significance	Proposed mitigation
			<p>to trees and animals etc;</p> <ul style="list-style-type: none"> • The Contractor to retain as many of the indigenous trees and bushes as possible and practical. This could be through the incorporation of natural bushveld trees as part of the landscape features of the residential development. The Contractor's work force would need to be sensitised to this requirement. It would also require detailed planning and consideration by the Developer; • The Developer to designate a portion of the project site as 'no-go' area and retain this area as a biodiversity corridor (private open space). Such a 'no-go' area should link with the adjacent MPE and assume the role of biodiversity corridor. This 'no-go' area must be demarcated prior to construction activities commencing to guide the Contractor and his staff; • In the event that any rare / endangered / protected species are found in the project site footprint, such species should be relocated to a similar location/habitat not more than 300 metres from its original location, before site clearing and planting activities occur; and • Avoid the removal of the protected species <i>Sclerocarya birrea</i> (Marula) if it is identified during the construction phase
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
Establishment of houses and offices will	<i>Direct impacts:</i> The property is zoned agricultural but not used for commercial agricultural	Moderately High	Rezone the property from agricultural use to residential and business use based on the



Activity	Impact summary	Significance	Proposed mitigation
cause a change in land use from agriculture to residential	activities. Agricultural land will be lost. There remains of a small mango tree plantation is located on the property.		following facts: <ul style="list-style-type: none"> The property is surrounded by existing, approved or planned residential, commercial and business developments. The property is located within the urban edge. The site is in close proximity to the Rustenburg CBD.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
Site clearing may cause soil erosion due to aspect and the collapsible nature of soils	<p><i>Direct impacts:</i></p> <ul style="list-style-type: none"> Eastern half has a fair slope and is covered with relatively thick collapsible soil. Centre to western areas have intermediate to localised areas of steep slopes and ridges with rock outcrop and shallow rock in areas. Upper soils are deemed collapsible. Localised fill area and drainage features require engineering. Scattered outbuildings, structures and cement reservoir with expected French drains / sub-surface soak-away systems. On-site soil suitable for <ul style="list-style-type: none"> mattress construction with low bearing structures; bedding and backfill material as per DWA specifications; and sub-grade material in road construction; selective material suitable for selective layers construction. 	Moderately High	<ul style="list-style-type: none"> No soluble dolomitic/limestone formations. No identified mineral deposits and undermining. Foundation precautionary measures to limit/prevent unwanted damage to proposed/planned structures due to expected collapse/consolidation settlement associated with soils. <ul style="list-style-type: none"> Foundation types/options recommended for Zone 1 (C2/2ABDE (3L)): soil raft, compaction of in-situ soil below individual footings and floors/slabs, stiffened strip footings, stiffened strip footings, stiffened or cellular raft. Foundation types/options recommended for Zone 2 (P (Burrowed and uncontrolled fill) C2 / 2ABDE (3L)): removal of fill and instatement/rehabilitation by means of backfill and compaction of inert material; suitable foundation option dependent on



Activity	Impact summary	Significance	Proposed mitigation
			<ul style="list-style-type: none"> ○ rehabilitation approach. ○ Foundation types/options recommended for Zone 3 (C2-R/2ABDEFI (2-3FIL)): soil raft, compaction of in-situ soil below individual footings and floors/slabs, stiffened strip footings, deep strip foundations (feasibility will be area specific), stiffened strip footings, stiffened or cellular raft. • Normal construction to modified normal construction for structures on competent weathered quartzite (localised area in Zone 3) • Open foundation trenches to be inspected and certified by competent person if deep strip foundations, normal construction or modified normal construction are considered. • Evaluate slope stability of any significant cut and/or excavations. • Proper drainage and damp proofing to prevent moisture damage to foundations/floors and masonry. • Safety precautionary measures for manned excavations or trenches, Sign off by competent person required as per regulations. • Phase 2 investigation as per SANS 634:2012
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
<p>Construction activities will generate waste.</p>	<p><i>Direct impacts:</i> General waste will accumulate during the construction phase due to vegetation clearance, demolition of structures and construction workers.</p>	<p>Moderately High</p>	<ul style="list-style-type: none"> • Collect general waste in suitable containers (drums/skips/bins on site) and remove from site for disposal to the Rustenburg Local



Activity	Impact summary	Significance	Proposed mitigation
	<p>Waste generated on site must be sorted into different waste streams. Poor solid waste management practises can lead to contamination and unsightly areas, as well as pests/vermin and odours with associated health issues. Waste streams include:</p> <ul style="list-style-type: none"> • Vegetation due to removal of vegetation. • Solid construction waste generated through construction activities (building rubble). • Hazardous waste in the event of a hydrocarbon spillage/leak (construction equipment or vehicles). • General waste produced by builders (biodegradable and non-biodegradable). 		<p>Municipal landfill facility by the construction contractor on a regular basis (at least weekly or when skip is full).</p> <ul style="list-style-type: none"> • Ensure sufficient containers are available for storage of waste prior to removal off site to prevent overflow and littering on the site and surroundings. • Waste containers must have covers to prevent rainwater infiltration. • Reduce waste quantities and disposal costs through a reduction in the materials ordered. "Take-back" schemes – setting up schemes with suppliers to take back surplus materials. • Separation of materials into different waste streams for collection and recycling. Make arrangement with recycling contractors to provide clearly marked bins for material separation. Make sure that sub-contractors are aware of the placement of the bins and their responsibility to separate materials. • Material storage – material storage areas should be safe, secure and weatherproof to prevent damage to material (resulting in waste generation) and theft. • Reduce and reuse – engage with the supply chain to supply products and materials that use minimal packaging, and segregate packaging for reuse. • Contractors to report on the quantities of different waste streams they manage (landfill, reuse, recycling, energy recovery); • Ensure no litter, refuse, waste and rubble generated on the



Activity	Impact summary	Significance	Proposed mitigation
			<p>premises will be placed, dumped or deposited on this site, adjacent or surrounding properties or road verges during the construction and clean-up phase.</p> <ul style="list-style-type: none"> • Ensure copies of all waste manifests (safe disposal certificates) are kept, showing responsible handling, transport and disposal by a reputable waste handler. • Include measure in contract that will ensure sub-contractors are required to clean their work area after construction.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
<p>Construction activities will affect air quality</p>	<p><i>Direct impacts:</i> Emissions may be released into the atmosphere resulting from vehicles and machinery (carbon monoxide emissions, smoke), solvents, and malodours as a result of waste not being removed from the construction site; and Dust may result from earthworks.</p>	<p>Moderately High (dust) and moderately low (emissions)</p>	<ul style="list-style-type: none"> • All vehicles and machinery/equipment used on, or entering the site, must be maintained and serviced regularly to ensure that they do not emit smoke or fumes. The contractor's representative must ensure that all on-site vehicles comply with the old SABS 0181 standards (now SANS 10181:2003 in conjunction with SANS 10282:2003) • Limiting idling time of vehicles / equipment. • Avoiding overloading of construction vehicles. • Any solvent based finishes such as paints, varnishes, sealants, and polishes will contain minimal levels of Volatile Organic Compounds (VOC) and no Chloro-Fluoro Carbons (CFC), which may harm the atmosphere. Water-based paints are to be used where possible and plant based stains and sealants must be considered as these



Activity	Impact summary	Significance	Proposed mitigation
			<p>are more environmentally friendly.</p> <ul style="list-style-type: none"> • Waste must be disposed, as soon as possible to a municipal transfer station, skip or on a licensed landfill site. Waste must not be allowed to stand on site to decay, resulting in malodours and attracting vermin. Waste may not be burnt on site. • Hazardous waste must be separately stored from general waste on an impermeable surface and disposed of at a hazardous waste landfill site. • Water sprays and dust suppression surfactants, must be used to limit dust generated if required. • A complaints register must be kept throughout the construction and operational phase.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
<p>Construction of houses, road building and waste generation will impact on water</p>	<p><i>Direct impacts:</i> Pollution of Surface Water Runoff and groundwater contamination. Spillages can cause soil, runoff and groundwater contamination.</p>	<p>Moderately Low</p>	<ul style="list-style-type: none"> • If feasible, construction should preferably occur in the dry season, when surface water runoff is minimal. • No uncontrolled discharge from the site should be permitted. • Construction vehicles must be limited to one path to reduce compaction of soil, which increases surface runoff. • Designing the site with a smaller area of impervious surfaces. • Surface run-off from construction sites should be discharged into storm water drains via adequately designed sand/silt removal facilities such as sand traps,



Activity	Impact summary	Significance	Proposed mitigation
			<p>silt traps and sediment basins to reduce siltation in storm water drains. Channels or earth bunds or sand bag barriers should be provided on site to properly direct storm water to such silt removal facilities.</p> <ul style="list-style-type: none"> • Silt removal facilities should be maintained and the deposited silt and grit should be removed regularly, to ensure that these facilities are functioning properly at all times. • Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should wherever practicable be recycled. • Contractor must ensure that all building materials / chemicals are effectively stored (sealed containers) and managed (mixing etc.) to prevent contamination. In the unlikely event of a spillage, sufficient clean-up procedures must be carried out immediately. • All reagents, reagents storage tanks and mixing units must be supplied with a bunded area built to contain 110% of the capacity of the facility, to contain any spilled material and return back into the system if possible. The system must be maintained in a state of good repair and standby pumps must be provided.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
Construction activities such as site clearing	Direct Impacts Impermeable surfaces minimises the surface area available for water	Moderately Low	<ul style="list-style-type: none"> • Alteration of existing drainage patterns must be avoided. • The use of low impact



Activity	Impact summary	Significance	Proposed mitigation
of houses will increase the velocity of stormwater runoff.	infiltration and prevents the effective infiltration of precipitation into the soils and therefore leads to an increase in surface water flow volumes to be managed as well as the velocity at which it flows. This may also lead to erosion.		development techniques are preferred to intercept and infiltrate runoff from developed areas distributed throughout the site. <ul style="list-style-type: none"> The cost of storm water implementation, management and maintenance, as well as flood risk, can be greatly reduced by identifying, retaining and enhancing the natural areas along which runoff flows.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
Construction activities involve employing a workforce	<i>Direct impacts:</i> Construction presents a health and safety risk to employees. Failure to comply with the safety requirements can result in health impacts (injury) and environmental damage.	Moderately Low	Compliance with OHSA.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
Site clearing will affect cultural heritage artefacts.	<i>Direct impacts:</i> Graves and memorials will be impacted by site clearing activities.	Moderately High	<ul style="list-style-type: none"> Two (2) memorials to be relocated to be moved to where the graves are situated. Add a small plaque with contextual information on the Wissekerke family. Graves must be preserved in situ and the memorials be placed at this location. <ul style="list-style-type: none"> A buffer zone of at least 20 m should be allowed. Cultural heritage management plan should be drafted for the preservation of the site. If the graves (younger than 60 years) need to be exhumed and relocated, an undertaker needs to be involved and it should be done in accordance with the legislation indicated in the



Activity	Impact summary	Significance	Proposed mitigation
			specialist report. <ul style="list-style-type: none"> Development may continue only after the mitigation measures indicated above had been implemented and approved by SAHRA. The documentation was submitted to SAHRA via the SAHRIS website on 19 April 2017. It should be noted that the subterranean presence of archaeological and/or historical sites, features or artifacts is always a distinct possibility. Due to the density of vegetation, it also is possible that some sites may only become known later on. Operating controls and monitoring should therefore be aimed at the possible unearthing of such features. Care should therefore be taken when development commences that if any of these are discovered, a qualified archaeologist be called in to investigate the occurrence.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
Alternative 2			
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		



Activity	Impact summary	Significance	Proposed mitigation
Alternative 3			
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
No-go option			
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		

A complete impact assessment which include process undertaken to identify, assess and rank the impacts, the activity will impose on the site through the life of the activity in terms of EIA Regulation 2014, Appendix 1(i) and (j) of GN R.982 must be included as Appendix H.

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 actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The potential impact that the proposed development will have on the local biodiversity is of moderately high significance owing to the proximity of the site to the MPE and the conservation status of the vegetation unit (Moot Plains Bushveld) that is found on the lower portion of the property. However, this impact can be mitigated and one of the mitigations is to maintain a corridor linking this area to the adjacent MPE.

The impact of a change in land use after mitigation is of low significance owing to the location of the site and the surrounding land uses.

Air quality impacts are not significant and can be easily managed to reduce dust levels and vehicle and plant emissions are generally considered to be of low significance.

The infrastructure and services of the site will be linked to existing infrastructure and services where there is currently sufficient capacity.

Surface and groundwater contamination will be minimised through the application of the proposed management measures.

Stormwater runoff will be managed through the application of the management measures and is not deemed to be a significant impact.

The impact on cultural heritage artefacts will be of moderately low significance after mitigation measures have



been applied. Graves will remain in situ and the memorials will be relocated.

Alternative B

Alternative C

No-go alternative (compulsory)

SECTION D: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	Rustenburg Herald Newspaper	
Date published	6/7 April 2017	
Site notice position	Latitude (S)	Longitude (E)
	25° 42' 41.3"	27° 15' 15.6"
	25° 42' 46.3"	27° 15' 26.1"
	25° 42' 38.8"	27° 15' 23.6"
	25° 42' 44.9"	27° 15' 21.4"
Date placed	6 April 2017	

Include proof of the placement of the relevant advertisements and notices in Appendix I1.

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 R.982.

Key stakeholders (other than organs of state) identified in terms of Regulation 40(2)(d) of GN R.982:

Title, Name and Surname	Affiliation/ stakeholder status key	Contact details (tel number or e-mail address)
Magic Plant Hire Pty Ltd	Applicant / property owner of project site – Portions 72 and 162	magrit@almari.co.za
Rustenburg Local Municipality (RLM)	Neighbouring property – Portions 93, 120 & 432	nawas@rustenburg.gov.za
Bakharia Younus	Neighbouring property – Portion 134	mebina@mweb.co.za
Brian Mills-Davies (Mitchell, Janine – daughter)	Neighbouring property – Portion 142	Janine.mitchell@lonmin.com
Wilgespruit Blomkwekery Pty Ltd Harmse, Martha Jacoba	Neighbouring property – Portion 248	waterfallgc@mweb.co.za
Wissekerke & Son Pty Ltd	Neighbouring property – Portion 289	cashanehotel@telkomsa.net
Esimio Inv Pty Ltd	Neighbouring property to	ben@kiartb.co.za



Ben van der Walt	south – Portion 385	
Malebye Familie Trust	Neighbouring property – Cashan X10	Unknown
Grove, Adri-Susan	Neighbouring property – Cashan X10	Treedance@worldonline.co.za
Rustenburg Platinum Mines Ltd Williams, Noel / Botha, Ian	Neighbouring property – Cashan X33	enidwilliamsza@gmail.com/ christa.dekker@sibanyeplatinum.co.za
Changing Tides 166 (Pty) Ltd Maharaj, Kushil Rabindranath/ Katamzi, Nonqaba Cecilia	Neighbouring property – Cashan X33	companysecretary@groupfive.co.za
Central Development: Arthur Barrett	Neighbourin property to north – Waterkloof East X 6	arthurwbarr@yahoo.com
Ms Idah Mathe	Kgaswane Mountain Reserve	marcusl@mweb.co.za
Chris de Bruyn	North West Environmental Forum (NWEF)	chrisdebruyn@mweb.co.za
Shaun Grant	Rustenburg Olifantsnek Corridor Landowners Association (ROCLA)	shalom@mweb.co.za
Jamile Bolt	ROCLA	Sylvia456@gmail.com

Include proof that the key stakeholder received written notification of the proposed activities as Appendix I2. 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.

3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
Councillor Martin Coetzee requested a Dropbox link to the project documents.	Provide Dropbox link to documents on 8 May 2017 when documents became available for public review.
Sibanye Rustenburg Platinum Mines requested to be registered as a stakeholder and a copy of the BAR.	Registered on 20 April 2017. Provided Dropbox link to documents on 8 May 2017 when documents became available for public review.

4. COMMENTS AND RESPONSE REPORT

The practitioner must make report (s) available to I&APs record all comments received from I&APs and respond to each comment before 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 I3.

5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders. Key stakeholders identified in terms of Regulation 7(1) and (2) and Regulation 40(2) (a)-(c) of GN R.982:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No	e-mail address
RLM	Ruben Moatshe	014 590 3433	Rmoatshe@rustenburg.gov.za
	Thembi Ntabanyane	014 590 3779	tntabanyane@rustenburg.gov.za
	Mr Walter Senne	014 590 3101	wsenne@rustenburg.gov.za
	Ms Kelebogile Mekgoe	014 590 3075	kmekgoe@rustenburg.gov.za
	Ms Lillian Sefike	014 590 3075	lsefike@rustenburg.gov.za
	Ms Ziyanda Mateta	014590 3530	zmateta@rustenburg.gov.za
Ward Councillor	Mr Thabo Mnisi		
Bojanala Platinum District Municipality	Kgomotso Setshedi		Kgomotso_setshedi@yahoo.com
	Innocent Sirohva / Lynette Lekhafola (PA)	014 590 4502 014 594 2332	innocents@bojanala.co.za lynette@bonajala.gov.za
NW READ	Portia Krisjan		pkrisjan@nwpg.gov.za
	Queen Imasiku	014 597 3597	QImasiku@nwpg.gov.za
	Pertunia Mphaki	014 597 3597	Pmphaki@nwpg.gov.za
	O Skosana	018 389 5156	oskosan@nwpg.gov.za
	Ellis Thebe	018 389 5099	gethebe@nwpg.gov.za
	Motshabi Mohliasi	014 597 3597	mmohliasi@nwpg.gov.za
DEA	Martin Khambule	012 338 3385	Martin.Khambule@gauteng.gov.za
	Lucas Mahlangu	012 339 8837	Lmahlangu@environment.gov.za
	Mr Albi Modise	012 310 3132	amodise@environment.gov.za
	Donald Sehaswana		dsehaswana@environment.gov.za
	Masina Litsoane	012 399 9375	mlitsoane@environment.gov.za
	Franz Scheepers	012 399 9285	fscheepers@environment.gov.za
DAFF	David Kleyn	012 319 7484	davidkl@nda.agric.za
	R.L Bosoga	012 319 7685	lydiaB@daff.gov.za
		012 319 7685 012 319 7553	DLUSM@nda.agric.za
	Lufuno Nevhufumba	018 381 3423	NevhufumbaL@nda.agric.za
	B. Msoni		CDESRM@nda.agric.za
DWS	Lethabo Ramashala	012 207 9911	ramashala@dws.gov.za
	Cornia Theuniseen	012 253 1026	TheunissenC@dws.gov.za
Department of Housing (NW)	Kelepile Thaganyane	018 387 3689	kthaganyane@nwpg.gov.za
	S.P. Ramagaga	018 387 5303	sramagaga@nwpg.gov.za
	Kelebogile Tshenkeng	018 388 2391	ktshenkeng@nwpg.gov.za
SAHRA	Colette Scheermeyer	021 462 4502	cscheermeyer@sahra.org.za
NWPHRA	Phillip Hine		phine@sahra.org.za



Include proof that the Authorities and Organs of State received written notification and draft reports of the proposed activities as Appendix I4.

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 prior to the commencement of the public participation process.

A list of registered I&APs must be included as Appendix I5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix I6.



SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision 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 further assessment).

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.

In general, all the mitigation measures recommended in the EMP should form part of the authorisation process.

Specifically, the two cultural heritage artefacts (memorials) are to be relocated and the graves are to remain in-situ.

A biodiversity corridor is to be demarcated and retained to provide a passage for fauna and flora movement.

Developer to retain as many of the indigenous trees as practical and not to remove any Marula trees without regulatory authorisation.

The EMPr that meet the requirements of EIA Regulation, 2014, Appendix 4, must be attached as Appendix J.

Is an EMPr attached?

YES

NO

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 K

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

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

SECTION F: AFFIRMATION BY EAP

I, Paulette Jacobs (name of person representing EAP) of HydroScience (name of company) declare that the information provided is correct and relevant to the activity/ project and that, the information was made available to interested and affected parties for their comments. All specialist (s) reports are relevant for the competent authority to make informed decision.


SIGNATURE OF EAP

2017-05-08
DATE





SECTION F: APPENDICES

The following appendices must be attached:

Appendix A: A3 Locality Map

Appendix B: Layout Plan and Sensitivity Maps

Appendix C: Photographs

Appendix D: Facility illustration(s)

Appendix E: Confirmation of services by Municipality (servitude and infrastructure planning)

Appendix F: Details and expertise of Specialist and Declaration of Interest

Appendix G: Specialist reports (including terms of reference)

Appendix H: Impact Assessment

Appendix I: Public Participation

Appendix J: Environmental Management Programme (EMPr)

Appendix K: Details of EAP and expertise

Appendix L: Any other Information

Appendix M: Financial Provision (if applicable)

Appendix N: Closure Plan (where applicable) as described in Appendix 5 of EIA Regulations, 2014

