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# FINAL BASIC ASSESSMENT

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## The proposed construction of a service road on a portion of Erf 30476 (Public Open Space), Bloemfontein

**Applicant:** B&L Trust  
**MDA Ref No:** 40732  
**DESTEA Ref No:** EMB/4,12/17/05  
**Date:** April 2017



Town & Regional Planners,  
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**destea**

 department of  
 economic, small business development,  
 tourism and environmental affairs  
 FREE STATE PROVINCE

(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:**

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. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. 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
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. An incomplete report may be returned to the applicant for revision.
6. 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.
7. This report must be handed in at offices of the relevant competent authority as determined by each authority.
8. No faxed or e-mailed reports will be accepted.
9. The signature of the EAP on the report must be an original signature.
10. The report must be compiled by an independent environmental assessment practitioner.
11. 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.
12. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.

13. 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.
14. Two (2) colour hard copies and one (1) electronic copy of the report must be submitted to the competent authority.
15. Shape files (.shp) for maps must be included in the electronic copy of the report submitted to the competent authority.

**SECTION A: ACTIVITY INFORMATION**

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

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

**1. PROJECT DESCRIPTION****a) Describe the project associated with the listed activities applied for**

Business developments will be undertaken on Erven 30375 and 30376 (please refer to Appendix A for more information on the locality of the said erven). It is proposed that the existing service road under the existing power line on Erf 30476 will be upgraded and paved as part of the above mentioned project. This road will be used by delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). If approved, the proposed road will thus be constructed within a Public Open Space (within the existing power line servitude) and therefore a Basic Assessment Process is required. It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line. Note that clearance of vegetation is undertaken in the area on a regular basis, as part of the maintenance procedures of the existing powerline.

**Take note of the following:**

- The proposed road will be paved, 12 m wide, and 200 m in length

**The construction phase will mainly consist of:**

- Clearance of the proposed road-area
- Levelling the proposed road-area
- Implementation of storm water management measures, where applicable
- Preparation of the proposed road surface area
- Paving the road
- Eradication of alien plants and other weeds
- Monitoring the occurrence of erosion
- Monitoring the re-establishment of natural occurring vegetation on the road reserve

**The operational phase will mainly consist of:**

- Usage of road by delivery vehicles
- Maintenance

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 985	Description of project activity
<p><b>Example:</b>  <b>GN 983 Item xx xx): The construction of a bridge where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</b></p>	<p><b>A bridge measuring 5 m in height and 10m in length, no wider than 8 meters will be built over the Orange river</b></p>
<p>Regulation 985, Listing Notice 3 (Basic Assessment), Activity 4:</p> <p>The <b>development of a road wider than 4 metres</b> with a reserve less than 13,5 metres.</p> <p>(a) In <b>Free State</b>, Limpopo, Mpumalanga and Northern Cape provinces:</p> <p>iii. <b>In urban areas:</b>            (aa) <b>Areas zoned for use as public open space;</b>            (bb) Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority or zoned for a conservation purpose; or            (cc) Seawards of the development setback line or within urban protected areas.</p>	<p>The construction of a street wider than 4m in an area zoned Public Open Space.</p>
<p>Regulation 985, Listing Notice 3 (Basic Assessment), Activity 12:</p> <p>The <b>clearance of an area of 300 square metres or more of indigenous vegetation</b> except where such clearance of indigenous vegetation is required for maintenance purposes</p>	<p>The proposed road construction will entail the clearance of more than 300 square metres of indigenous vegetation in an area zoned as open space</p>

<p>undertaken in accordance with a maintenance management plan.</p> <p>(a) In Eastern Cape, <b>Free State</b>, Gauteng, Limpopo, North West and Western Cape provinces:</p> <p>iv. On land, where, at the time of the coming into effect of this Notice or thereafter such <b>land was zoned open space</b>, conservation or had an equivalent zoning.</p> <p><b>"indigenous vegetation"</b> refers to vegetation consisting of indigenous plant species occurring naturally in an area, regardless of the level of alien infestation and <b>where the topsoil has not been lawfully disturbed during the preceding ten years;</b></p>	
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## 2. FEASIBLE AND REASONABLE ALTERNATIVES

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

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

Describe alternatives that are considered in this application as required by Appendix 1 (3)(h) of GN 982, 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.

The identification of alternatives should be in line with the Integrated Environmental Assessment Guideline Series 11, published by the DEA in 2004. 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. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**NOTE:**

**Please take note of the description of the preferred project as well as alternatives.**

**1. Preferred Project:**

Business developments will be undertaken on Erven 30375 and 30376 (please refer to Appendix A for more information on the locality of the said erven). As part of the above mentioned proposed development, a road will be constructed and exclusively used by delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). If approved, the proposed road will be constructed within a Public Open Space and therefore a Basic Assessment Process is required. It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line. The proposed road will be located within the existing power line servitude.

**Take note of the following:**

- The proposed road will be 12 m wide, and 200 m in length.

**The construction phase will mainly consist of:**

- Clearance of the proposed road-area
- Levelling the proposed road-area
- Implementation of storm water management measures, where applicable
- Preparation of the proposed road surface area
- Paving the road
- Eradication of alien plants and other weeds
- Monitoring the occurrence of erosion
- Monitoring the re-establishment of natural occurring vegetation on the road reserve

**The operational phase will mainly consist of:**

- Usage of road by delivery vehicles
- Maintenance

**Locality Alternative:**

An alternative route was also assessed during the planning phase (access from Christo Groenewald Road). However, this route will lead to a smaller portion of land being available for the proposed development (expansion of the existing Northridge Mall) and thus not being cost effective. Therefore, this option is not seen as a feasible and / or reasonable alternative.

#### **Design / Layout Alternative:**

As an alternative, a wider road was assessed during the planning phase. However, a wider road will not be required as the road will only be used by slow moving, delivery trucks. Therefore, this option is not seen as a feasible and / or reasonable alternative.

#### **Technology Alternative:**

The construction of a gravel road was also considered.

Although this option is the most economically in the immediate terms, it has the following disadvantages:

- Less employment opportunities will be available during the construction phase
- Erosion monitoring will have to be undertaken more frequently than in the case of the preferred project monitoring
- General maintenance after each rainy event will have to be implemented in order to maintain the condition of the road
- Dust formation should be controlled during the operational phase
- Maintenance of gravel roads is required regularly, in comparison to paved surfaces

This option is therefore not seen as a feasible and / or reasonable alternative.

#### **No-go alternative:**

The proposed development on Erven 30375 and 30376 will not be undertaken. This will lead to a loss of many possible temporary as well as permanent employment opportunities.

#### **a) Site alternatives**

##### **Alternative:**

##### **Latitude (S):**

##### **Longitude (E):**

##### **Alternative 1 Preferred**

The preferred project entails the construction of a road within an existing servitude

• Starting point of the activity	29.071590°S	26.229193°E
• Middle/Additional point of the activity	29.071800°S	26.230345°E
• End point of the activity	29.072054°S	26.231546°E

##### **Alternative 2 Site / Locality**



An alternative route was also assessed during the planning phase (access from Christo Groenewald Road). However, this route will lead to a smaller portion of land being available for the proposed development (expansion of the existing Northridge Mall) and thus not being cost effective. Therefore, this option is not seen as a feasible and / or reasonable alternative.

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

<b>Alternative 1 Preferred</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
The preferred project entails the construction of a paved road within an existing servitude.	29.071800°S	26.230345°E
<b>Alternative 3 Design and Layout</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
As an alternative, a wider road was assessed during the planning phase. However, a wider road will not be required as the road will only be used by slow moving, delivery trucks. Therefore, this option is not seen as a feasible and / or reasonable alternative.		

### c) Technology alternatives

<b>Alternative 1 (preferred alternative)</b>
The preferred project entails the construction of a paved road within an existing servitude.
<b>Alternative 4 Type and Technology</b>
<p>The construction of a gravel road was also considered. Although this option is the most economically in the immediate terms, it has the following disadvantages:</p> <ul style="list-style-type: none"> <li>• Less employment opportunities will be available during the construction phase</li> <li>• Erosion monitoring will have to be undertaken more often than in the case of the preferred project monitoring</li> <li>• General maintenance after each rainy event will have to be implemented in order to maintain the condition of the road</li> <li>• Dust formation should be controlled during the operational phase</li> <li>• Maintenance of gravel roads is required regularly, in comparison to paved surfaces</li> </ul>

This option is therefore not seen as a feasible and / or reasonable alternative.

**e) No-go alternative**

The proposed development on Erven 30375 and 30376 will not be undertaken. This will lead to a loss of many possible temporary as well as permanent employment opportunities.

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

**3. PHYSICAL SIZE OF THE ACTIVITY**

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

**Alternative:**

Alternative 1 Preferred

**Size of the activity:**

2 400 m<sup>2</sup>

or, for linear activities:

**Alternative:**

Alternative 1 Preferred

**Length of the activity:**

200 m

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

**Alternative:**

Alternative 1 Preferred

**Size of the site/servitude:**

4 600 m<sup>2</sup>

**4. SITE ACCESS**

Does ready access to the site exist?

YES

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 gained via Urania Street.

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);
- 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.

## 6. LAYOUT/ROUTE PLAN

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

The site or route plans must indicate the following:

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

## 7. SENSITIVITY MAP

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

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;

- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

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

## 8. SITE PHOTOGRAPHS

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

## 9. FACILITY ILLUSTRATION

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

## 10. ACTIVITY MOTIVATION

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

<b>1. Is the activity permitted in terms of the property's existing land use rights?</b>		NO	
The proposed road will be constructed within a Public Open Space. It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line. No change in land use is required.			
<b>2. Will the activity be in line with the following?</b>			
<b>(a) Provincial Spatial Development Framework (PSDF)</b>		NO	
No PSDF is currently in place for the Free State Province. It is not anticipated that the proposed activities will have a negative impact on the value of the adjacent property. In addition, the proposed project will have a positive impact on the socio-economic value, due to the fact that employment opportunities will be available during the construction phase.			
<b>(b) Urban edge / Edge of Built environment for the area</b>	YES		
The site for the proposed construction of a road falls within the urban edge of the Mangaung Metropolitan Municipality.			

<b>(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?).</b>			N/A
<p>The SDF and IDP are not applicable as the proposed project is not strategic in nature.</p> <p>Note that the proposed project will have many benefits, such as:</p> <ul style="list-style-type: none"> <li>- Provide the opportunity for the development of Erven 30375 and 30376</li> <li>- The road will serve a as a delivery / service road for the proposed development to be undertaken on Erven 30375 and 30376</li> </ul>			
<b>(d) Approved Structure Plan of the Municipality</b>			N/A
<p>No Municipal Structure Plan is in place for the proposed development area. An application for the servitude registration is in process at Mangaung Metropolitan Municipality. The concept was already approved by the said municipality.</p>			
<b>(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?)</b>			N/A
<p>No EMF is currently in place for the proposed development area.</p> <p>However, the proposed project will not compromise the integrity of the existing environmental management priorities for the area, should the contractors adhere to the conditions stipulated in this report, additional specifications to be provided, the EMPr as well as best practices.</p> <p>Specific measures to be implemented will include, but not limited to:</p> <ul style="list-style-type: none"> <li>- Stormwater measures</li> <li>- Erosion control</li> <li>- Limiting the removal of vegetation</li> </ul> <p>Refer to the EMPr for more information on measures to be implemented.</p>			
<b>(f) Any other Plans (e.g. Guide Plan)</b>	YES	NO	Please explain
N/A			

<p><b>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)?</b></p>			N/A
<p>The SDF and IDP are not affected by the proposed project, as the proposed road is not of strategic planning nature.</p>			
<p><b>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.)</b></p>	YES		
<p>The proposed development of Erven 30375 and 30376 will lead to many employment opportunities during the construction and operational phase. The proposed road will be utilised by delivery vehicles associated with the proposed development. It should be noted that the proposed development suits the area, as Northridge Mall as well as Central Media Park is already operational.</p>			
<p><b>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 I.)</b></p>	YES		
<p>No additional services are required for the proposed project (construction of a road). Building rubble associated with the proposed construction of a service road will be disposed of at the Northern Landfill Site in Bloemfontein. Current developments in the vicinity of the application site are also making use of the said landfill site. Water supply will be available to the project by the municipal water network from the applicant's property, as the proposed activities will be undertaken within a built environment.</p>			

<b>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.)</b>			N/A
N/A, due to the nature and scale of the project. The proposed service road will form part of a private development and will be paid by the developer. The service road is not intended to serve the general public. Note that an application for the servitude registration is in process at Mangaung Metropolitan Municipality. The concept was already approved by the said municipality.			
<b>7. Is this project part of a national programme to address an issue of national concern or importance?</b>		NO	
Although the project does not form part of any national programme to address an issue of national concern, the proposed service road will be used by delivery vehicles associated with Erven 30375 and 30376. The proposed construction of a service road is therefore necessary for the operation of the developments on the mentioned erven. The proposed development will provide many employment opportunities.			
<b>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.)</b>	YES		
The area adjacent to the Public Open Space is zoned as Residential / Business / Commercial and therefore favours this land use. The proposed road will be constructed within a Public Open Space. It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line. The proposed road will be located within the existing power line servitude.			
<b>9. Is the development the best practicable environmental option for this land/site?</b>	YES		
As indicated in the ecological report, the site is degraded and is therefore suitable for the proposed construction of a road.			

<b>10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?</b>	YES		
<p><b>Negative:</b></p> <ul style="list-style-type: none"> <li>- Vegetation loss</li> <li>- Possible Erosion</li> <li>- Possible soil and groundwater pollution</li> </ul> <p><b>Positive:</b></p> <ul style="list-style-type: none"> <li>- Employment opportunities</li> <li>- Rehabilitation of site (currently in degraded state due to alien vegetation and waste occurring on site)</li> <li>- Alien vegetation species will be removed from site.</li> </ul> <p>Protected plant species will be relocated (where practicable). Note that permits for the removal / transplantation of protected species should be obtained before the removal thereof. The impact associated with the proposed construction of a road will be limited if the conditions in the EMPPr is adhered to.</p>			
<b>11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?</b>		NO	
<p>It is suggested that future (similar) projects will also:</p> <ul style="list-style-type: none"> <li>- Constructed in such a way that no surface water bodies will be impacted upon</li> <li>- Established on a site that is already disturbed, where possible</li> </ul>			



<b>12. Will any person's rights be negatively affected by the proposed activity/ies?</b>	YES		
<p>Adjacent landowners may be negatively affected during the construction phase due to higher levels of noise and formation of dust. However, this will be limited via dust suppression activities (when required). In addition, construction activities will be limited to normal working hours, where possible. Noise levels associated with the construction of the paved road will have to comply with the requirements as set out in the OSH Act. It should also be noted that the construction of a paved road generates less noise than, for example, the construction of a tarred road.</p> <p>Noise associated to the operational phase will be limited to the movement of vehicles (including trucks) on site. It should be noted that the adjacent areas are already developed and that the vehicles that will make use of this road will only add to the existing traffic noise.</p> <p>Traffic noise is not controlled by any legislation.</p> <p>Access roads (such as Urania street) are of such a quality that it is suitable to be used by the delivery vehicles and therefore it is not anticipated that the use of this road will have a significant impact on the said roads.</p>			
<b>13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?</b>		NO	
<p>The proposed road will be constructed within an already developed area. The proposed project is in line with the Urban Edge / Edge of Built Environment for the area.</p>			
<b>14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?</b>		NO	
<p>The proposed project does not trigger any of the 17 SIPS.</p>			
<b>15. What will the benefits be to society in general and to the local communities?</b>			
<p>Employment opportunities will be created during the construction phase of the road. In addition, temporary and permanent employment opportunities will be created during the construction and operational phase of the proposed development on Erven 30375 and 30376.</p>			
<b>16. Any other need and desirability considerations related to the proposed activity?</b>			
<p>N/A</p>			

<b>17. How does the project fit into the National Development Plan for 2030?</b>	
N/A	

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

Section 23 of NEMA (Act 107, 27 November 1998) reads as follows:

'23. (1) The purpose of this Chapter is to promote the application of appropriate environmental management tools in order to ensure the integrated environmental management of activities,

(2) The general objective of integrated environmental management is to -

(a) promote the integration of the principles of environmental management set out in section 2 into the making of all decisions which may have a significant effect on the environment;

(b) identify, predict and evaluate the actual and potential impact on the environment, socio-economic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimizing negative impacts, maximizing benefits and promoting compliance with the principles of environmental management set out in section 2;

(c) ensure that the effects of activities on the environment receive adequate consideration before actions are taken in connection with them;

(d) ensure adequate and appropriate opportunity for public participation in decisions that may affect the environment;

(e) ensure the consideration of environmental attributes in management and decision-making which may have a significant effect on the environment; and

(f) identify and employ the modes of environmental management best suited to ensuring that a particular activity is pursued in accordance with the principles of environmental management set out in section 2.

(3) The Director-General must coordinate the activities of organs of state referred to in section 24(1) and assist them in giving effect to the objectives of this section and such assistance may include training, the publication of manuals and guidelines and the co-ordination of procedures.'

With the above in mind, the following objectives were taken into consideration:

1. An application for environmental authorisation was submitted to DESTEA

2. Integration of various principles of environmental management were implemented in order to make decisions regarding the significant effect of the proposed project on the environment
3. Identified, predicted and evaluated the actual potential impact of the proposed project on the environment, the socio-economic conditions and heritage, as well as the consequences and alternatives and options for mitigation of activities. This was done to minimize the possible negative impacts on the environment and maximizing benefits to mankind.
4. Taken the effects of activities on the environment into consideration before actions are to be taken in connection with them.
5. A public participation process was followed.
6. Considered the environmental attributes in management and decision-making with reference to the environment.
7. Mitigation and management activities best suited to ensuring that a particular activity is pursued in accordance with the principles of environmental management were investigated.
8. The report follows the laws to identify, predict and evaluate the actual and potential impacts associated with the development.
9. Specialists investigated the site to determine baseline and to predict the impacts associated with the proposed project. The preferred alternative has been identified as the one that will have the least negative impact on the environment, as sensitive areas will be avoided as far as possible. In addition, already disturbed areas will be utilized as far as possible.
10. A public participation process was followed. Consideration of the 2014 EIA Regulations has been applied in this regards.
11. An EMPr is included, with mitigation measures that should be implemented during the planning, construction, operation and possible decommissioning of the proposed project. These mitigation measures are in line with the environmental requirements and Best Practise Principles.
12. Relevant guidelines and procedures were used to produce this document. Therefore, relevant information is reflected, for sufficient co-governance to be implemented.
13. The proposed project provides for the needs of the applicant while ensure compliance with environmental management principles.

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

Section 2 of NEMA (Act 107, 27 November 1998) reads as follows:

( 1 ) The principles set out in this section apply throughout the Republic to the actions of all organs of state that may significantly affect the environment and—

(a) shall apply alongside all other appropriate and relevant considerations, including the State's responsibility to respect, protect, promote and fulfil

the social and economic rights in Chapter 2 of the Constitution and in particular the basic needs of categories of persons disadvantaged by unfair discrimination;

- (b) serve as the general framework within which environmental management and implementation plans must be formulated;
- (c) serve as guidelines by reference to which any organ of state must exercise any function when taking any decision in terms of this Act or any statutory provision concerning the protection of the environment;
- (d) serve as principles by reference to which a conciliator appointed under this Act must make recommendations; and
- (e) guide the interpretation, administration and implementation of this Act, and any other law concerned with the protection or management of the environment.

(2) Environmental management must place people and their needs at the forefront of its concern, and serve their physical, psychological, developmental, cultural and social interests equitably.

(3) Development must be socially, environmentally and economically sustainable.

(4) (a) Sustainable development requires the consideration of all relevant factors including the following:

- (i) That the disturbance of ecosystems and loss of biological diversity are avoided, or, where they cannot be altogether avoided, are minimised and remedied;
- (ii) into account the limits of current knowledge about the consequences of decisions and actions; and
- (iii) that negative impacts on the environment and on people's environmental rights be anticipated and prevented, and where they cannot be altogether prevented, are minimised and remedied.
- (iv) that pollution and degradation of the environment are avoided, or, where they cannot be altogether avoided, are minimised and remedied;
- (v) that the disturbance of landscapes and sites that constitute the nation's cultural heritage is avoided, or where it cannot be altogether avoided, is minimised and remedied;
- (vi) that waste is avoided, or where it cannot be altogether avoided, minimised and re-used or recycled where possible and otherwise disposed of in a responsible manner;
- (vii) that the use and exploitation of non-renewable natural resources is responsible and equitable, and takes into account the consequences of the depletion of the resource;

- (viii) that the development, use and exploitation of renewable resources and the ecosystems of which they are part do not exceed the level beyond which their integrity is jeopardised;
- (ix) that a risk-averse and cautious approach is applied, which takes
- (b) Environmental management must be integrated, acknowledging that all elements of the environment are linked and interrelated, and it must take into account the effects of decisions on all aspects of the environment and all people in the environment by pursuing the selection of the best practicable environmental option.
- (c) Environmental justice must be pursued so that adverse environmental impacts shall not be distributed in such a manner as to unfairly discriminate against any person, particularly vulnerable and disadvantaged persons.
- (d) Equitable access to environmental resources, benefits and services to meet basic human needs and ensure human well-being must be pursued and special measures may be taken to ensure access thereto by categories of persons disadvantaged by unfair discrimination.
- (e) Responsibility for the environmental health and safety consequences of a policy, programme, project, product, process, service or activity exists throughout its life cycle.
- (f) The participation of all interested and affected parties in environmental governance must be promoted, and all people must have the opportunity to develop the understanding, skills and capacity necessary for achieving equitable and effective participation, and participation by vulnerable and disadvantaged persons must be ensured.
- (g) Decisions must take into account the interest, needs and values of all the interested and affected parties, and this includes recognizing all forms of knowledge, including traditional and ordinary knowledge.
- (h) Community wellbeing and empowerment must be promoted through environmental education, the raising of environmental awareness, the sharing of knowledge and experience and other appropriate means.
- (i) The social, economic and environmental impacts of activities, including disadvantages and benefits must be considered, assessed and evaluated and decisions must be appropriate in the light of such consideration and assessment.
- j) The right of workers to refuse work that is harmful to human health or the environment and to be informed of dangers must be respected and protected.
- (k) Decisions must be taken in an open and transparent manner, and access to information must be provided in accordance with the law.
- (l) There must be intergovernmental co-ordination and harmonisation of policies, legislation and actions relating to the environment.
- (m) Actual or potential conflicts of interest between organs of state should be resolved through conflict resolution procedures.

- (n) Global and international responsibilities relating to the environment must be discharged in the national interest.
- (o) The environment is held in public trust for the people. The beneficial use of environmental resources must serve the public interest and the environment must be protected as the people's common heritage.
- (p) The costs of remedying pollution, environmental degradation and consequent adverse health effects and of preventing, controlling or minimising further pollution, environmental damage or adverse health effects must be paid for by those responsible for harming the environment.
- (q) The vital role of women and youth in environment management and development must be recognised and their full participation therein must be promoted.
- (r) Sensitive, vulnerable, highly dynamic or stressed ecosystems, such as coastal shores, estuaries, wetlands and similar systems require specific attention in management and planning procedures, especially where they are subject to significant human resource usage and development pressure.

The applicant of the proposed project took the following into consideration:

1. That the disturbance of ecosystems and loss of biological diversity are minimised and remedied by implementing the mitigation measures in this document, the EMPr as well as best practices.
2. Environmental management must be integrated
3. Adverse environmental impacts (if any) shall not be distributed in such a manner as to unfairly discriminate against any person, particularly vulnerable and disadvantaged persons.
4. The participation of all interested and affected parties in environmental governance must be promoted by means of the public participation process that forms part of the basic assessment process.
5. Community wellbeing and empowerment must be promoted by providing employment opportunities during the construction as well as operational phase.
6. The right of workers to refuse work that is harmful to human health or the environment and to be informed of dangers will be respected and protected.

## 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
National Environmental Management Act,	Proposed construction of a service road within an Open Space	DESTEA	1998

1998 (Act 107 of 1998)			
National Heritage Resources Act (Act No 25 of 1999)	Proposed construction of a service road within an Open Space	SAHRA	1999
Environmental Conservation Act (Act 73 of 1989)	Proposed construction of a service road within an Open Space	DESTEА	1989
National Environmental Management Biodiversity Act, 2004 (Act 10 of 2004)	Proposed construction of a service road within an Open Space	DESTEА	2004

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

### a) Solid waste management

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

YES	
-----	--

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

Unknown
---------

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

The solid construction waste will be disposed of at an authorised solid waste disposal site, by the contractor
--

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

At an authorised solid waste disposal site in Bloemfontein
--

Will the activity produce solid waste during its operational phase?

NO
----

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

m <sup>3</sup>
----------------

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

N/A
-----

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

Northern 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	
-----	--

  
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	
-----	--

  
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? 

	NO
--	----

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

	m <sup>3</sup>
--	----------------

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

	NO
--	----

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

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

	NO
--	----

  
If YES, provide the particulars of the facility:

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

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

--

#### NOTE:

Employees will be provided with temporary toilet facilities (such as port-a-loos) during the construction phase of the proposed project. The temporary toilets will be serviced regularly and the waste associated with the toilet facilities will be removed from site by a contractor, according to best practices.

### c) Emissions into the atmosphere

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

	NO
--	----

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

N/A
-----



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:

**NOTE:**

The only emissions associated with the project during the construction phase will be exhaust emission and dust. Dust will be controlled during the construction phase, when necessary. The vehicles travelling on the road will contribute to the emissions released into the atmosphere during the operational phase of the proposed project. However, these emissions are not controlled by any legislation.

**d) Waste permit**

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

	NO
--	----

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	
-----	--

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

N/A	
-----	--

Describe the noise in terms of type and level:

**NOTE:**

Noise will be associated with the proposed project during the construction phase. However, the noise will be limited to normal daytime hours, where possible. Vehicles travelling on the road during the operational phase may contribute to the noise levels in the area. However, it is not anticipated that this will have a significant impact on the surrounding environment.

**13. WATER USE**

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

**NOTE:**

Municipal water will be used during the construction activities for the following:

- Providing clean drinking water to the employees
- Dust suppression measures, when required
- As part of the preparation of the road surface before paving is undertaken

<b>Municipal</b>	Water board	Groundwater	River, stream, dam or lake	Other	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:

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

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

Unknown
---------

NO
----

#### 14. 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 interest" for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

**Property description/physical address:**

<b>Province</b>	Free State
<b>District Municipality</b>	Motheo District Municipality
<b>Local Municipality</b>	Mangaung Metropolitan Municipality
<b>Ward Number(s)</b>	48
<b>Farm name and number</b>	Erf 30476
<b>Portion number</b>	Remainder
<b>SG Code</b>	F 003 000 300 030 476 000 00

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.

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

Public Open Space (It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line.)

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 1 Preferred:

<b>Flat</b>	<b>1:50</b> <b>1:20</b>	–	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 type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>
2.10 At sea	<input type="checkbox"/>				

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

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

Shallow water table (less than 1.5m deep)  
 Dolomite, sinkhole or doline areas  
 Seasonally wet soils (often close to water bodies)  
 Unstable rocky slopes or steep slopes with loose soil  
 Dispersive soils (soils that dissolve in water)  
 Soils with high clay content (clay fraction more than 40%)  
 Any other unstable soil or geological feature  
 An area sensitive to erosion

### Alternative 1 Preferred:

	NO
	NO
	NO
	NO
	NO
	NO
	NO
YES	

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 <sup>E</sup>	<b>Natural veld with</b>	Natural veld with heavy alien	Veld dominated by alien species <sup>E</sup>	Gardens
--	--------------------------	-------------------------------	--	---------

	<b>scattered aliens<sup>E</sup></b>	infestation <sup>E</sup>		
Sport field	Cultivated land	Paved surface	<b>Building or other structure</b>	<b>Bare soil</b>

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.

**NOTE:**

**Summary of Ecological Report:**

The site proposed for the access road has been rated as being acceptable for the development. The vegetation in the study area consists of Bloemfontein Karroid Shrubland. The vegetation type is currently listed as being of Least Concern under the National List of Threatened Ecosystems (Notice 1477 of 2009) (National Environmental Management Biodiversity Act, 2004). However, according to Brown & Du Preez (2014), the vegetation type must be regarded as endemic to the Free State Province and must be afforded a high conservation status and must be included as a Threatened Ecosystem. In this area it is under pressure for residential development. The area proposed for the road is however also degraded due to its proximity to current land use surrounding it.

No current land use occurs on the site other than the power line and associated dirt track. No other structures or buildings occur on the site. Littering on the site is common. Grazing and browsing of the vegetation is absent due to the site being isolated by urban areas and not forming part of any farming area. The mammal populations on the site will also be diminished due to the condition of the site, isolation from surrounding natural areas and proximity of urban areas. No discernible watercourse or wetland occurs on or near the site and runoff occurs primarily as sheet-flow.

Due to the degraded condition of the site as well as the urban proximity of dwellings it is considered unlikely that any species of concern will occur on the site. The mammal population on the site is likely to be diminished from the natural condition.

Habitat diversity on the site is moderate and degraded. As a result the species diversity is also moderate in contrast to the natural condition where it should have been relatively high. The habitat consists of dwarf karroid shrubland with a mosaic vegetation pattern of grass, dwarf shrubs and shrubs.

The Free State Biodiversity Plan indicates the site to form part of an Ecological Support Area 1 which functions in maintaining the integrity of Critical Biodiversity Areas.

No rare or endangered species occur on the site although a few protected species were noted to occur. These are the succulent species *E. mauritanica*, *S. grandiflora*, *A. grandidentata* and the tree species *Olea europaea* subsp. *africana* (Wild Olive). All the above species are relatively widespread and common and are therefore not of significant conservation concern. However, the succulent species are easily transplanted and permits should be obtained to transplant them to adjacent areas where they will not be affected by construction. The Wild Olives trees are present on the site as juvenile shrubs and are therefore not of significant size or age. Permits should be obtained to remove these.

In conclusion the area is considered to have significant conservation value as the vegetation in the area is considered to be unique and containing a high species diversity. However, the specific site proposed for the access road has been degraded and the diversity of species is relatively low with areas of the site transformed from the natural condition. The site is isolated from surrounding natural areas and is not considered to represent a conservable portion of the vegetation type. However, the site still contains a few species which are protected. Protected succulent species should be transplanted to adjacent areas where they will not be affected by construction and permits should be obtained to remove the few specimens of Wild Olive on the site. It should be kept in mind that ongoing development within this vegetation type will contribute to the cumulative impact of decreasing this vegetation type and as a result continued development within the vegetation type will have to be done with increased care and sensitivity.

## 5. SURFACE WATER

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

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

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


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

### NOTE:

#### **Medium density residential:**

Houses are located within 500 m from the proposed road.

#### **High density residential:**

Townhouse complexes are located within 500 m from the proposed road.

#### **Retail commercial and warehousing:**

Northridge Mall is located in close proximity.

**Office / consulting room:**

Central Media Park is located in close proximity.

**Church:**

CRC is located in close proximity.

**Filling station:**

Filling station at Northridge Mall is located in close proximity.

**Protected Area:**

The Seven Dams Conservancy is located in close proximity.

The erf on which the road is to be constructed, is zoned as Public Open Space.

If any of the boxes marked with an "N" 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 "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:

No impact associated with the proposed activity regarding the existing filling station.

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

Critical Biodiversity Area (as per provincial conservation plan)		NO
Core area of a protected area?		NO
Buffer area of a protected area?		NO
Planned expansion area of an existing protected area?		NO
Existing offset area associated with a previous Environmental Authorisation?		NO
Buffer area of the SKA?		NO

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



## 7. CULTURAL/HISTORICAL FEATURES

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

	NO

**NOTE:**

A heritage impact assessment was conducted for the construction of a service road on a portion of Erf 30476, Bloemfontein, Free State Province. The proposed footprint will be a linear development covering about 7350 m<sup>2</sup> of open veld on declared public open space near the corner of Christo Groenewald Street and Olympus Drive. The proposed footprint is located on dolerite intrusions that are not palaeontologically significant or sensitive. A foot survey revealed no evidence of *in situ* archaeological remains, ancient structures, graves or historical buildings older than 60 years. The probability of impact by the development on intact fossil remains is considered non-existent, and it is considered unlikely that the proposed development will result in any archaeological impact at the site. The terrain in general is regarded as of low archaeological significance and is assigned a rating of Generally Protected C (GP.C).

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?

	NO
	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.

## 8. SOCIO-ECONOMIC CHARACTER

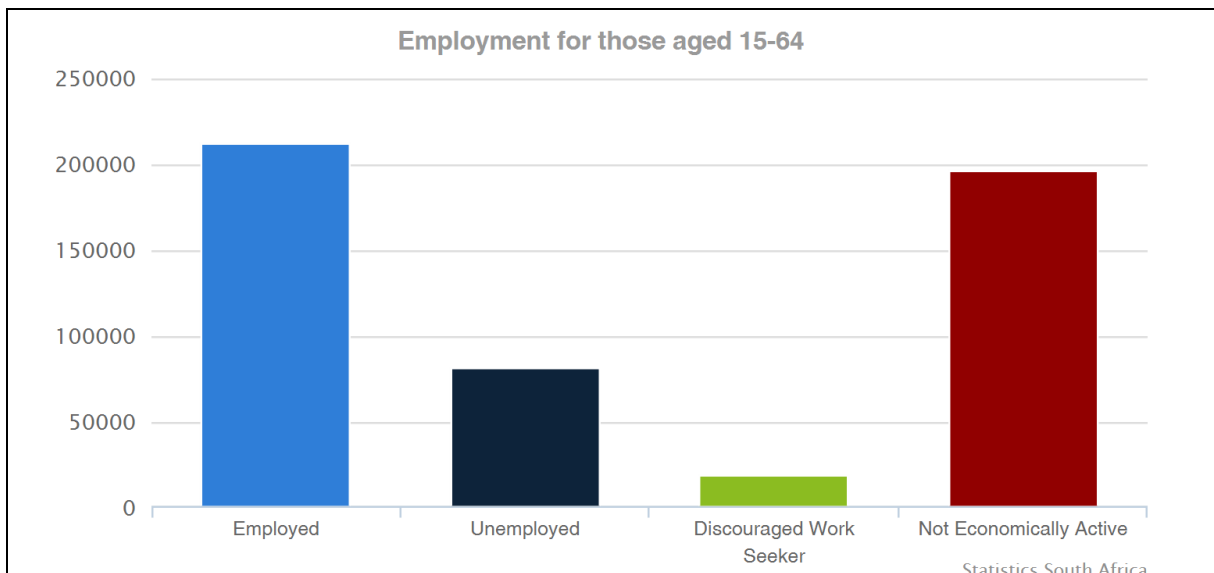
### a) Local Municipality

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

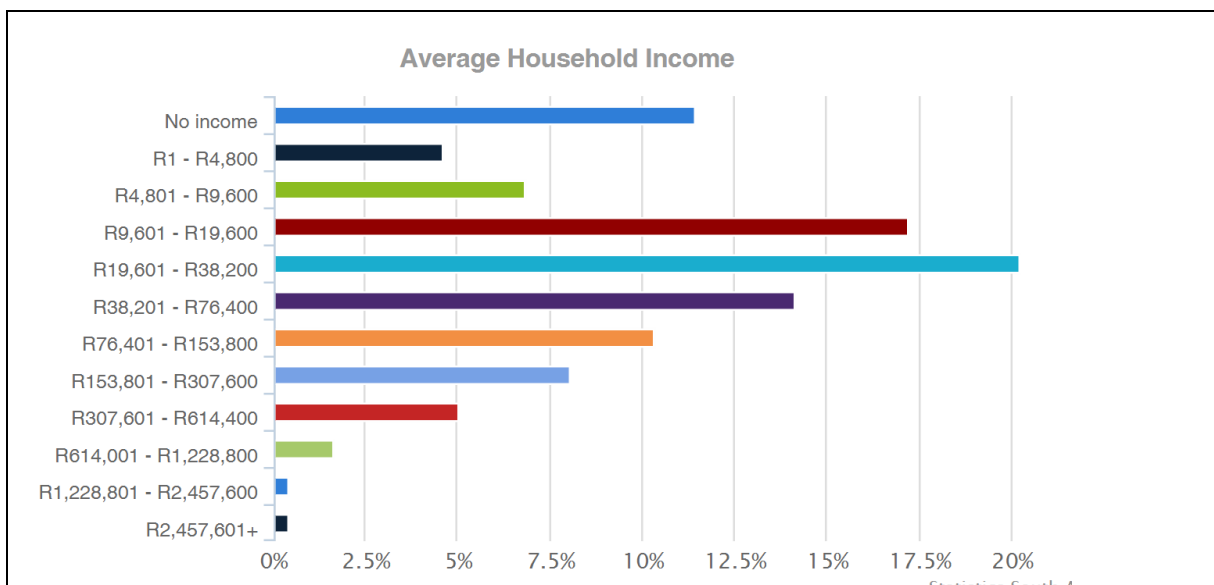
**NOTE:**

The information in this section was obtained from the following web address:  
[http://www.statssa.gov.za/?page\\_id=1021&id=mangaung-municipality](http://www.statssa.gov.za/?page_id=1021&id=mangaung-municipality)

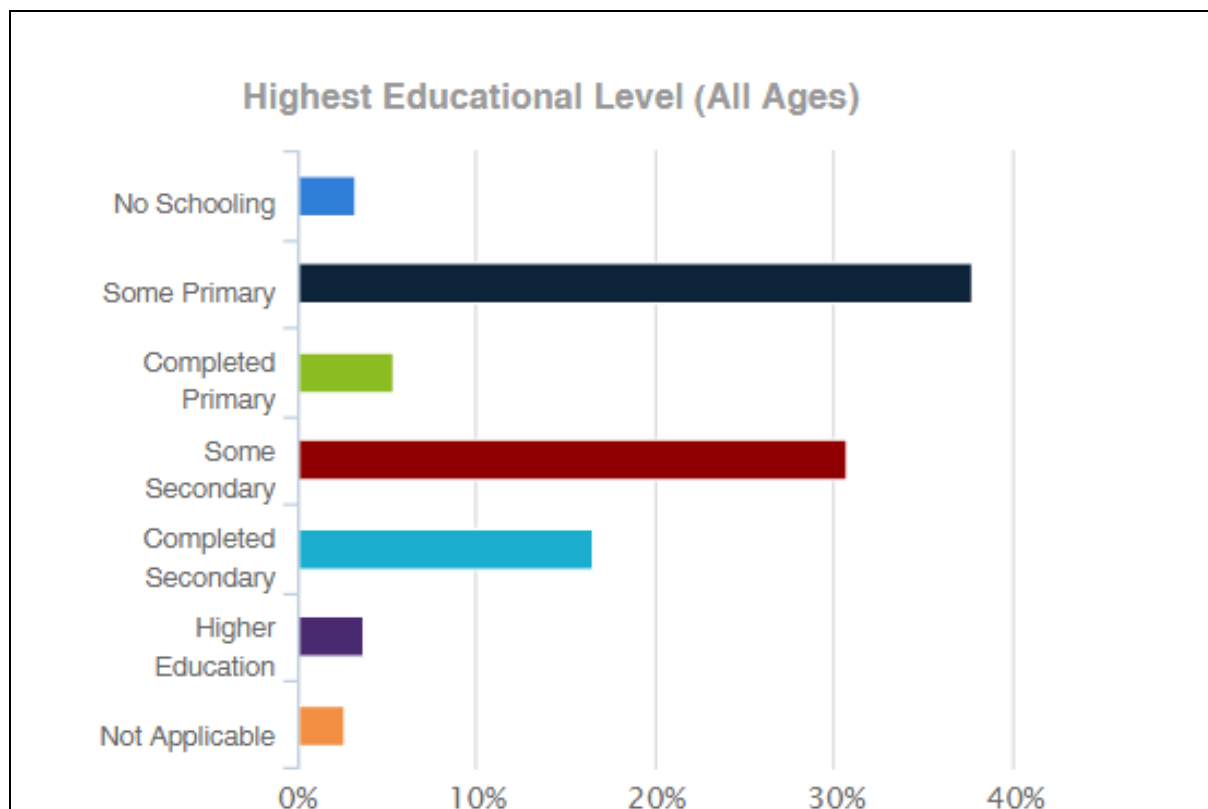
Level of unemployment:



Economic profile of local municipality:



Level of education:



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

What is the expected capital value of the activity on completion?	Unknown
What is the expected yearly income that will be generated by or as a result of the activity?	Unknown
Will the activity contribute to service infrastructure?	NO
Is the activity a public amenity?	NO
How many new employment opportunities will be created in the development and construction phase of the activity/ies?	Unknown, depends on the contractor
What is the expected value of the employment opportunities during the development and construction phase?	Unknown, depends on the contractor
What percentage of this will accrue to previously disadvantaged individuals?	Approximately 80%
How many permanent new employment opportunities will be created during the operational phase of the activity?	N/A, as the project entails the construction of a road

What is the expected current value of the employment opportunities during the first 10 years?	Unknown
What percentage of this will accrue to previously disadvantaged individuals?	Approximately 80%

## 9. BIODIVERSITY

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

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

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	<p>The vegetation in the study area consists of Bloemfontein Karroid Shrubland. The vegetation type is currently listed as being of Least Concern under the National List of Threatened Ecosystems (Notice 1477 of 2009) (National Environmental Management Biodiversity Act, 2004). The area proposed for the road is <b>degraded due to its proximity to current land use surrounding it.</b></p> <p>No rare or endangered species occur on the site although a few protected species were noted to occur. These species are relatively widespread and common in the area and are therefore not of significant conservation concern. However, the succulent species are easily transplanted and permits should be obtained to transplant them to adjacent areas where they will not be affected by construction. The Wild Olives trees are present on the site as juvenile shrubs and are therefore not of significant size or age. Permits should be obtained to remove these.</p> <p>In conclusion the area is considered to have significant conservation value as the vegetation in the area is considered to be unique and containing a high species diversity. However, <b>the specific site proposed for the access road has been degraded</b> and the diversity of species is relatively low with areas of the site <b>transformed from the natural condition.</b> The site is isolated from surrounding natural areas and is not considered to represent a conservable portion of the vegetation type.</p>

## 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	0%	
Near Natural (includes areas with low to moderate level of alien invasive plants)	0%	
Degraded (includes areas heavily invaded by alien plants)	100%	<p>The vegetation in the study area consists of Bloemfontein Karroid Shrubland. The vegetation type is currently listed as being of Least Concern under the National List of Threatened Ecosystems (Notice 1477 of 2009) (National Environmental Management Biodiversity Act, 2004). The area proposed for the road is <b>degraded due to its proximity to current land use surrounding it.</b></p> <p>No rare or endangered species occur on the site although a few protected species were noted to occur. These species are relatively widespread and common in the area and are therefore not of significant conservation concern. However, the succulent species are easily transplanted and permits should be obtained to transplant them to adjacent areas where they will not be affected by construction. The Wild Olives trees are present on the site as juvenile shrubs and are therefore not of significant size or age. Permits should be obtained to remove these.</p> <p>In conclusion the area is considered to</p>

		have significant conservation value as the vegetation in the area is considered to be unique and containing a high species diversity. However, <b>the specific site proposed for the access road has been degraded</b> and the diversity of species is relatively low with areas of the site <b>transformed from the natural condition</b> . The site is isolated from surrounding natural areas and is not considered to represent a conservable portion of the vegetation type.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	0%	

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

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

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

- 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)**

**NOTE:****Summary of Ecological Report:**

The site proposed for the access road has been rated as being acceptable for the development. The vegetation in the study area consists of Bloemfontein Karroid Shrubland. The vegetation type is currently listed as being of Least Concern under the National List of Threatened Ecosystems (Notice 1477 of 2009) (National Environmental Management Biodiversity Act, 2004). However, according to Brown & Du Preez (2014), the vegetation type must be regarded as endemic to the Free State Province and must be afforded a high conservation status and must be included as a Threatened Ecosystem. In this area it is under pressure for residential development. The area proposed for the road is however also degraded due to its proximity to current land use surrounding it.

No current land use occurs on the site other than the power line and associated dirt track. No other structures or buildings occur on the site. Littering on the site is common. Grazing and browsing of the vegetation is absent due to the site being isolated by urban areas and not forming part of any farming area. The mammal populations on the site will also be diminished due to the condition of the site, isolation from surrounding natural areas and proximity of urban areas. No discernible watercourse or wetland occurs on or near the site and runoff occurs primarily as sheet-flow. Due to the degraded condition of the site as well as the urban proximity of dwellings it is considered unlikely that any species of concern will occur on the site. The mammal population on the site is likely to be diminished from the natural condition.

Habitat diversity on the site is moderate and degraded. As a result the species diversity is also moderate in contrast to the natural condition where it should have been relatively high. The habitat consists of dwarf karroid shrubland with a mosaic vegetation pattern of grass, dwarf shrubs and shrubs.



The Free State Biodiversity Plan indicates the site to form part of an Ecological Support Area 1 which functions in maintaining the integrity of Critical Biodiversity Areas.

No rare or endangered species occur on the site although a few protected species were noted to occur. These are the succulent species *E. mauritanica*, *S. grandiflora*, *A. grandidentata* and the tree species *Olea europaea* subsp. *africana* (Wild Olive). All the above species are relatively widespread and common and are therefore not of significant conservation concern. However, the succulent species are easily transplanted and permits should be obtained to transplant them to adjacent areas where they will not be affected by construction. The Wild Olives trees are present on the site as juvenile shrubs and are therefore not of significant size or age. Permits should be obtained to remove these.

In conclusion the area is considered to have significant conservation value as the vegetation in the area is considered to be unique and containing a high species diversity. However, the specific site proposed for the access road has been degraded and the diversity of species is relatively low with areas of the site transformed from the natural condition. The site is isolated from surrounding natural areas and is not considered to represent a conservable portion of the vegetation type. However, the site still contains a few species which are protected. Protected succulent species should be transplanted to adjacent areas where they will not be affected by construction and permits should be obtained to remove the few specimens of Wild Olive on the site. It should be kept in mind that ongoing development within this vegetation type will contribute to the cumulative impact of decreasing this vegetation type and as a result continued development within the vegetation type will have to be done with increased care and sensitivity.

## SECTION C: PUBLIC PARTICIPATION

### 1. ADVERTISEMENT AND NOTICE

<b>Publication name</b>	Die Volksblad	
<b>Date published</b>	4 October 2016	
<b>Site notice position</b>	<b>Latitude</b>	<b>Longitude</b>
	29.071805°	26.230539°
<b>Date placed</b>	8 September 2016	

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

### 2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 982

**NOTE:**

Identification of possible IAPs includes:

- Mangaung Metropolitan Municipality
- Municipal Manager
- Environmental Division
- Planning Division
- Ward councillor, Ward 48
- Dept. of Agriculture
- Dept. of Water and Sanitation
- SAHRA
- FSHRA
- Adjacent landowners

Site notices were placed on site. Authorities were notified via registered post / hand delivery. A legal notice was placed in Die Volksblad. A copy of the dBAR & fBAR was provided to all the registered parties. All registered parties will be given the opportunity to comment on the BAR documents.



Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 982


Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)
Please note that other stake holders were notified by means of two on-site notices as well as a notification in Die Volksblad.		

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.


### 3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Issues raised by IAPs during the initial notification process		
Nr	Comments	Response
<b>1. Sanfred Townhouse Complex Body Corporate</b>		
1.1	What type of businesses are planned	Business developments will be undertaken on Erven 30375 and 30376, as part of the expansion of North Ridge Mall
1.2	Who is the owner(s) of the proposed new businesses / development	B&L Trust ( The same developer as North Ridge Mall)
1.3	Who is the owner of RE/61	Mangaung Metropolitan Municipality
1.4	Sanfred Townhouse Complex has a gate to Erf RE/61	The proposed road construction activities will not have an impact on the accessibility to the mentioned gate.
1.5	Proposed layout of road	The proposed road will be located within the existing power line servitude. Please refer to Annexure A and Annexure C for more information
1.6	For what purposes will the road be used	Business developments will be undertaken on Erven 30375 and 30376 (please refer to Appendix A for more information on the locality of the said erven). It is proposed that the existing service road under the existing power line on Erf 30475 will be upgraded and paved as part of the above mentioned project. This road will be exclusively used during maintenance operations of the existing powerline as well as delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). If approved, the proposed road will thus be constructed within a Public Open Space (within the existing power line servitude) and therefore a Basic Assessment Process is required. It should be noted that the reason for the Public Open Space is to

Issues raised by IAPs during the initial notification process		
Nr	Comments	Response
		accommodate the existing overhead power line. Note that clearance of vegetation is undertaken in the area on a regular basis, as part of the maintenance procedures of the existing powerline.
1.7	<p>Sanfred Townhouse Complex (Pegasus Street) is located in quiet suburban street and will change dramatically with feet / vehicular traffic should the project be approved.</p> <p>Pegasus Street already has problems with dips in the road and this will be made worse with heavy delivery trucks frequently using the street.</p> <p>If road is approved, it will change the nature</p>	<p>The proposed paved road will be used by delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road).</p> <p>Note that the original municipal plans included the extension of Urania Street to Christo Groenewald street (see yellow line in map), for the use by the public. However, Urania Street will no longer be extended, as a result of the proposed new developments on Erf 30375 and 30376.</p> <p>Thus, the proposed project will not have a significant impact on the area if the above is taken into consideration.</p> 

<b>Issues raised by IAPs during the initial notification process</b>		
<b>Nr</b>	<b>Comments</b>	<b>Response</b>
	of Pegasus street and will negatively affect all the residential streets in the area.	
1.8	Increase in heavy traffic will negatively affect the vicinity around Brebner School	It is not anticipated that the use by the delivery vehicles will have a significant effect on road users near Brebner High School.
1.9	Consider construction of a road via the proposed subdivision of erf 30482 (street) on the northern side of the erven. This road already carries a lot of heavy traffic and will be minimally affected	An alternative route was also assessed during the planning phase (access from Christo Groenewald Road). However, this route will lead to a smaller portion of land being available for the proposed development and thus not being cost effective. Therefore, this option is not seen as a feasible and / or reasonable alternative. Note that the main access to the development will be from the northern side (via Christo Groenewald Street).
<b>2.</b>	<b>Jacques</b>	
2.1	Requested additional information on the proposed	Business developments will be undertaken on Erven 30375 and 30376. The proposed road will be located within the existing power line servitude. Please refer to Annexure A and Annexure C for more information. The proposed road will be used by

<b>Issues raised by IAPs during the initial notification process</b>		
<b>Nr</b>	<b>Comments</b>	<b>Response</b>
	project (telephonic conversation on 7 October 2016)	delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). Note that this was a requirement from Mangaung Metropolitan Municipality. If approved, the proposed road will be constructed within a Public Open Space. It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line. Mr Jacques was also given the opportunity to register as an IAP.
<b>3.</b>	<b>Ronel Klopper</b>	
3.1	Requested additional information on the proposed project (telephonic conversation on 11 October 2016)	Business developments will be undertaken on Erven 30375 and 30376. The proposed road will be located within the existing power line servitude. Please refer to Annexure A and Annexure C for more information. The proposed road will be used by delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). If approved, the proposed road will be constructed within a Public Open Space. It should be noted that the reason for the Public Open Space is to accommodate the existing overhead power line. Ms Klopper was also given the opportunity to register as an IAP.
<b>4.</b>	<b>Tanya Malherbe</b>	
4.1	Against the construction of the proposed street as the construction will directly affect the quality of her life and chosen lifestyle	Business developments will be undertaken on Erven 30375 and 30376 (please refer to Appendix A for more information on the locality of the said erven). It is proposed that the existing service road under the existing power line on Erf 30475 will be upgraded and paved as part of the above mentioned project. This road will be used by delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). Note that the original municipal plans included the extension of Urania Street to Christo Groenewald street (see yellow line in map), for the use by the public. However, Urania Street will no longer be extended, as a result of the proposed new developments on Erf 30375 and 30376. Thus, the proposed project will not have a significant impact on the area if the above is taken into consideration.

Issues raised by IAPs during the initial notification process		
Nr	Comments	Response
		

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
1.	DWS	
1.1	A letter of agreement for disposal at the Northern Landfill Site in Bloemfontein, from the Mangaung Metropolitan Municipality is required	The development will take place within an urban area. The developer has access to the municipal solid waste site. Please refer to Appendix J <sub>1</sub> .
1.2	The applicant should refrain from wasteful water usage	Noted
1.3	The applicant should submit a written proof of agreement indicating that the Municipality will supply water to the proposed project	The development will take place in an urban area and the development will receive water from the services erf. Please refer to Appendix J <sub>1</sub> .
1.4	All equipment and material are to be kept and stored on a concrete lined surface with bund walls and in such a manner that any spillages can be contained or reclaimed without causing any negative impact to the environment, ground and surface water resources	The development will take place in an urban area and the majority of material will be sourced from local services providers and the minimum material will be stored on site. All hazardous material and equipment will be stored in a lined, bunded wall area with the capacity of 110 % of the volume of material to be stored on site.
1.5	Applicant should take note of the	Noted



<b>Issues raised by IAPs on the dBAR</b>		
<b>Nr</b>	<b>Comments</b>	<b>Response</b>
	<p>pollution control provisions of Section 19(1) of the National Water Act, 1998, which states that 'An owner of land, a person in control of land or person who occupies or uses the land on which</p> <p>(a) Any activity or process is or was performed or undertaken; or</p> <p>(b) Any other situation exists, which causes, has caused or is likely to cause pollution of water resources must take all reasonable measures to prevent any such pollution from occurring, continuing or recurring'.</p>	
1.6	Any pollution incidents originating from this activity shall be reported to the DWS offices within 24 hours.	See Section 3.3 of the EMPr (Appendix G)
<b>2. Mangaung Metropolitan Municipality – Environmental Division</b>		
2.1	An Environmental Awareness Plan should form part of the EMPr	See Section 3.11 of the EMPr (Annexure G)
2.2	A Storm Water Management Plan must be compiled to put measures in place to mitigate water runoff from the proposed paved road	See Appendix K
2.3	Construction batching or other significant infrastructure required as part of the proposed development must be located in consultation with the landowner, the ECO or occupants. Once the area is vacated, it must be rehabilitated.	Noted
2.4	Competent authority must be consulted regarding the hazardous waste that the proposed development will be generating	No hazardous waste will be generated as a direct result of the proposed activity (i.e. construction of a road). Employees will be provided with temporary toilet facilities (such as port-a-loo's) during the construction phase of the proposed project. The temporary toilets will be serviced

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		regularly and the waste associated with the toilet facilities will be removed from site by a contractor, according to best practices. No need to consult any authority in this regard.
2.5	Centlec must be consulted regarding the proposed power line running next to the proposed development	Centlec have been contacted regarding the proposed services road being accommodated in their servitude. The existing power line will not be affected by the proposed development.
2.6	All documents illustrating compliance to the conditions should be forwarded to the Municipality for record keeping and compliance	A copy of the fBAR was forwarded to the Municipality.
<b>3.</b>	<b>T. Malherbe</b>	
3.1	The majority of residents in the townhouses being affected – and very specifically in Pentagon Heights – are either retirees or people working from home. Our living areas (lounge, dining-room, patio), including our bedrooms, overlook the veld and immediate area involved in the proposed construction. So, no matter how you look at it, a service road will have a direct effect on our privacy, our quality of life and peace of mind and the very real threat of an increase in crime (not to mention the issues related to the construction thereof).	Business developments will be undertaken on Erven 30375 and 30376 (please refer to Appendix A for more information on the locality of the said erven). It is proposed that the existing service road under the existing power line on Erf 30475 will be upgraded and paved as part of the above mentioned project. This service road will be used by delivery vehicles for delivery purposes from Urania Street (i.e. to the south of the proposed road). Note that the original municipal plans included the extension of Urania Street to Christo Groenewald street, for the use by the public. However, Urania Street will no longer be extended, as a result of the proposed new developments on Erf 30375 and 30376. With the above in mind, it is evident that

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		less traffic will be associated with the operational phase of the proposed project (i.e. the proposed construction of a service road that will mostly be used by delivery vehicles) than with the initial municipal plans (extension of Urania Street to Christo Groenewald Street, to be utilised by the public). Thus, the proposed project will not have a significant impact on the area if the above is taken into consideration.
3.2	When the development of Wild Olive Estate became a reality, we were informed that the section known as the so-called 'servitude-area' just north of our boundary walls will be developed into parklike-gardens, with walking trails and lush greenery, adding to the ambience and "green-living" associated with buying property in Wild Olive Estate. A road definitely does not contribute to the 'go-green-lifestyle'.	The proposed service road (located on Municipal Property) will service the proposed business developments on Erven 30375 and 30376. Thus, the proposed road will not have an impact on any activities associated with the Wild Olive Estate. However, your concerns are noted and a copy thereof was forwarded to DESTEA.
3.3	Despite the reports attached to the correspondence of 28 February 2017 claiming that the ecology of the area won't be affected dramatically, I disagree. A road will have a direct impact on our surroundings and the aesthetic ambience and peacefulness associated with the fauna and flora of the area – the whole reason why we as owners of the adjacent townhouses bought our properties in the first place. Not only does it have a negative effect on our daily living, but it will have a very definite impact on the monetary value of our homes.	The BAR discusses the environmental impacts associated with a proposed project, i.e. the construction of a service road within an area zoned as public open space. The ecological specialist assessed the site, and his findings were recorded as such.  As a business development is planned for Erven 30375 as well as 30376, the proposed service road itself will not have significant impact on the aesthetic ambience of the

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		<p>area.</p> <p>The site proposed for the service road has been rated as being acceptable for the development. The vegetation in the study area consists of Bloemfontein Karroid Shrubland. The vegetation type is currently listed as being of Least Concern under the National List of Threatened Ecosystems (Notice 1477 of 2009) (National Environmental Management Biodiversity Act, 2004). However, according to Brown &amp; Du Preez (2014), the vegetation type must be regarded as endemic to the Free State Province and must be afforded a high conservation status and must be included as a Threatened Ecosystem. In this area it is under pressure for residential development. The area proposed for the road is however also degraded due to its proximity to current land use surrounding it.</p> <p>No current land use occurs on the site other than the power line and associated dirt track. No other structures or buildings occur on the site. Littering on the site is common. Grazing and browsing of the vegetation is absent due to the site being isolated by urban areas and not forming part of any farming area. The mammal populations on the site will also be diminished due to the condition</p>

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		<p>of the site, isolation from surrounding natural areas and proximity of urban areas. No discernible watercourse or wetland occurs on or near the site and runoff occurs primarily as sheet-flow.</p> <p>Due to the degraded condition of the site as well as the urban proximity of dwellings it is considered unlikely that any species of concern will occur on the site. The mammal population on the site is likely to be diminished from the natural condition.</p> <p>Habitat diversity on the site is moderate and degraded. As a result the species diversity is also moderate in contrast to the natural condition where it should have been relatively high. The habitat consists of dwarf karroid shrubland with a mosaic vegetation pattern of grass, dwarf shrubs and shrubs.</p> <p>The Free State Biodiversity Plan indicates the site to form part of an Ecological Support Area 1 which functions in maintaining the integrity of Critical Biodiversity Areas.</p> <p>No rare or endangered species occur on the site although a few protected species were noted to occur. These are the succulent species <i>E. mauritanica</i>, <i>S. grandiflora</i>, <i>A.</i></p>

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		<p>grandidentata and the tree species <i>Olea europaea</i> subsp. <i>africana</i> (Wild Olive). All the above species are relatively widespread and common and are therefore not of significant conservation concern. However, the succulent species are easily transplanted and permits should be obtained to transplant them to adjacent areas where they will not be affected by construction. The Wild Olives trees are present on the site as juvenile shrubs and are therefore not of significant size or age. Permits should be obtained to remove these.</p> <p>In conclusion the area is considered to have significant conservation value as the vegetation in the area is considered to be unique and containing a high species diversity. However, the specific site proposed for the access road has been degraded and the diversity of species is relatively low with areas of the site transformed from the natural condition. The site is isolated from surrounding natural areas and is not considered to represent a conservable portion of the vegetation type. However, the site still contains a few species which are protected. Protected succulent species should be transplanted to adjacent areas where they will not be affected by</p>

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		construction and permits should be obtained to remove the few specimens of Wild Olive on the site.
3.4	<p>In terms of the construction of the proposed road, there is NO WAY that the relevant noise (and dust) associated with such a project can be controlled – and your statement that the noise levels won't exceed 80 decibels is impossible to guarantee.</p> <p>I would like to invite you to come to my home and experience the frustration of having to listen to the constant thumping of compressing machines, jack-hammers, the dumping of rubble, the sirens of trucks and the shooting of dynamite at all times of the day associated with the developments and construction currently taking place at Northridge, a stone-throw away from my home. Since end January 2017, we have had to deal with constant noise ALL DAY, EVERY DAY (including public holidays) from 07:05 to 17:00, and on Saturdays from 07:05 to 13:00. The noise and thumping, reverberating from our walls and foundations, feels like a hammer hitting a nail into your brain that never stops and drives you absolutely crazy. In some instances residents have started using ear-plugs to try and get some peace of mind. And when you are retired, sick or trying to work, this situation is totally unproductive and leads to immense frustration and levels of insanity, both to us humans and our pets. This is over and above the irritation of constant traffic noise,</p>	<p>Please note that the current application is for the construction of a paved service road on a erf zoned as public open space. Noise associated with such an activity is usually far less than the noise associated with the construction of buildings / tarred roads etc.</p> <p>Noise levels associated with the construction of the paved service road will have to comply with the requirements as set out in the OSH Act.</p> <p>Your concerns are noted and were forwarded to DESTEA.</p>

Issues raised by IAPs on the dBAR		
Nr	Comments	Response
	should the road be constructed.	
3.5	<p>Your argument that the construction of a road will lead to employment is not a strong argument. The employment will last as long as construction takes place, and then it ends and the people are back to square one. And yet we, the residents will have to deal with the results of having a service road running right past our living areas, for as long as we are here.</p> <p>I am not insensitive to the worker's needs either, since I am a freelancer (working from home) and as such, understand the need for work and long-term income, but not at the price you are suggesting.</p>	<p>Although the employment opportunities associated with the proposed road will only be temporary, it will make a difference to individuals and their families as an income will be generated during the construction phase. However, your concerns are noted and forwarded to DESTEA.</p>
3.6	<p>Furthermore, a service road not only implies the constant movement of light vehicles, trucks and delivery vehicles (both heavy and light duty) at all hours of the day, but also makes me question the planned development/s associated with such a road?</p> <p>We will be inundated with traffic noise; a constant stream of movement past our property, and increase in crime – and the very real possibility of the road being extended at a later stage in the future, leading to just more traffic and noise and crime.</p>	<p>The proposed business development was already approved. Note that the proposed service road will not be able to be extended / used by the public to gain direct access to Christo Groenewald Street via Urania Street as a result of the planned business development layout. It is anticipated that less traffic will be associated with the operational phase of the proposed project (i.e. the proposed construction of a service road that will mostly be used by delivery vehicles) than with the initial municipal plans (extension of Urania Street to Christo Groenewald Street, to be utilised by the public). Thus, the proposed project will not have a significant impact on the</p>



Issues raised by IAPs on the dBAR		
Nr	Comments	Response
		area if the above is taken into consideration.
3.7	Taking above arguments into consideration, I vehemently oppose the construction of the service road proposed for erf 30476. Money and progress is important, but not at the cost of residents peace of mind and quality of lifestyle. And as such, I will fight to uphold this basic right of mine.	Your concerns are noted and a copy thereof was provided to DESTEA.

#### 4. 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.

#### 5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/Organ of State	Contact person	Tel No	Postal address
Mangaung Metropolitan Municipality	City Manager		P.O. Box 3704 Bloemfontein 9300
Mangaung Metropolitan Municipality	Environmental Division Me. Mpolokeng Kolobe		P.O. Box 3704 Bloemfontein 9300
Mangaung Metropolitan Municipality	Planning Division Mr. Collin Dihemo		P.O. Box 3704 Bloemfontein 9300
Mangaung Metropolitan Municipality	Ward councillor, ward 48		P.O. Box 3704 Bloemfontein 9300
Department of Agriculture	The Assistant Director	051 506 1585	P.O. Box 34521 Faunasig Bloemfontein 9325 94 Charlotte Maxeke St, Bloemfontein, 9301
Department of Water and Sanitation	Mr Willem Grobler	051 405 9000	Private Bag X528 Bloemfontein 9300
SAHRA	(on-line notification)	021 462 4509 021 462 4502	111 Harrington Street CAPE TOWN 8001
FSHRA	Ntando PZ Mbatha Heritage Coordinator	051 410 4750	C/O Henry and East Burger Street Business Partner Building Office 307 Bloemfontein 9301

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

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

## **6. CONSULTATION WITH OTHER STAKEHOLDERS**

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

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

### 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.

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
Planning and Design Phase	Planning and design	<b>Direct impacts:</b> <ul style="list-style-type: none"> <li>• None</li> </ul>	Medium – High Negative	<ul style="list-style-type: none"> <li>• No environmental mitigation measures is required during the planning phase on the proposed site, as no mitigation measures are to be implemented on site during the planning phase.</li> <li>• However, the engineers, specialists and environmental consultants took the following into consideration, to be implemented during the construction / operational phase: <ul style="list-style-type: none"> <li>- Erosion control measures</li> <li>- Removal of vegetation</li> <li>- Protected vegetation</li> <li>- Removal of topsoil</li> <li>- Flooding</li> <li>- Pollution</li> <li>- Etc.</li> </ul> </li> </ul>	Low negative
		<b>Indirect impacts:</b>	Medium – High Negative	<ul style="list-style-type: none"> <li>• No environmental mitigation measures is required during the planning phase on the proposed site,</li> </ul>	Low negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<ul style="list-style-type: none"> <li>• Potential soil and surface water pollution</li> </ul>		<p>as no mitigation measures are to be implemented on site during the planning phase.</p> <ul style="list-style-type: none"> <li>• However, the engineers, specialists and environmental consultants took the following into consideration, to be implemented during the construction / operational phase:                             <ul style="list-style-type: none"> <li>- Erosion control measures</li> <li>- Removal of vegetation</li> <li>- Protected vegetation</li> <li>- Removal of topsoil</li> <li>- Flooding</li> <li>- Pollution</li> <li>- Etc.</li> </ul> </li> </ul>	
		<p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>• Potential groundwater pollution</li> </ul>	Medium – High Negative	<ul style="list-style-type: none"> <li>• No environmental mitigation measures is required during the planning phase on the proposed site, as no mitigation measures are to be implemented on site during the planning phase.</li> <li>• However, the engineers, specialists</li> </ul>	Low negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
				and environmental consultants took the following into consideration, to be implemented during the construction / operational phase: <ul style="list-style-type: none"> <li>- Erosion control measures</li> <li>- Removal of vegetation</li> <li>- Protected vegetation</li> <li>- Removal of topsoil</li> <li>- Flooding</li> <li>- Pollution</li> <li>- Etc.</li> </ul>	
Construction phase	General construction activities	<b>Direct impacts:</b> <ul style="list-style-type: none"> <li>• Visual impact stockpiled material</li> <li>• Noise elevation due to construction activities</li> <li>• Nuisance</li> </ul>	Medium-High Negative	<ul style="list-style-type: none"> <li>• Site will be kept neat and tidy</li> <li>• Appropriate area will be identified for stockpiling purposes</li> <li>• Speed limit will be enforced on the construction vehicles and these vehicles will only make use of designated roads / pathways</li> <li>• Dust control measures will be implemented if nuisance dust generation occurs during the</li> </ul>	Low negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		dust generation		construction period	
		<p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>• Erosion</li> <li>• Establishment of alien / invader vegetation species</li> <li>• Possible impact on heritage artefacts</li> <li>• Loss of fauna on site</li> </ul>	Medium-High Negative	<ul style="list-style-type: none"> <li>• Stockpiled material will be stored in such a manner to limit the loss thereof. For example: <ul style="list-style-type: none"> <li>- Bricks may be placed around the stockpiles, to limit the loss thereof due to rainy events.</li> <li>- Stockpiles will not be higher than 1.5 m</li> <li>- The gradient of stockpiles will not be greater than 1:1.5</li> </ul> </li> <li>• Establishment of alien / invader vegetation will be monitored and these species will be removed by hand or by an approved chemical before gestation thereof.</li> <li>• All archaeological findings (if any) should be recorded and reported to SAHRA. No construction activities in the area may proceed without the</li> </ul>	Low negative



Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
				<p>authorisation from SAHRA.</p> <ul style="list-style-type: none"> <li>• Storm water measures will be implemented in order to manage storm water and this will also prevent erosion.</li> <li>• Visual inspections for the occurrence of erosion should be undertaken on a weekly basis.</li> <li>• No animals may be captured / harmed / killed on site. Specialists should be appointed to remove / translocate species, if required. The necessary permits should also be obtained.</li> <li>• Any occurrences of harmed animals should be reported to the ECO, the required steps be taken and recorded as such.</li> </ul>	
		<b>Cumulative impacts</b>	Medium-High Negative	<ul style="list-style-type: none"> <li>• Stockpiled material will be stored in such a manner to limit the loss</li> </ul>	

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<ul style="list-style-type: none"> <li>• Erosion</li> <li>• Establishment of alien vegetation species</li> </ul>		<p>thereof. For example:</p> <ul style="list-style-type: none"> <li>- Bricks may be placed around the stockpiles, to limit the loss thereof due to rainy events.</li> <li>- Stockpiles will not be higher than 1.5 m</li> <li>- The gradient of stockpiles will not be greater than 1:1.5</li> </ul> <ul style="list-style-type: none"> <li>• Establishment of alien / invader vegetation will be monitored and these species will be removed by hand or by an approved chemical before gestation thereof.</li> <li>• All archaeological findings (if any) should be recorded and reported to SAHRA. No construction activities in the area may proceed without the authorisation from SAHRA.</li> <li>• Storm water measures will be implemented in order to manage storm water and this will also prevent</li> </ul>	

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
				<p>erosion.</p> <ul style="list-style-type: none"> <li>• Visual inspections for the occurrence of erosion should be undertaken on a weekly basis.</li> <li>• No animals may be captured / harmed / killed on site. Specialists should be appointed to remove / translocate species, if required. The necessary permits should also be obtained.</li> <li>• Any occurrences of harmed animals should be reported to the ECO, the required steps taken and be recorded as such.</li> </ul>	
	Removal of vegetation and topsoil	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Destruction of vegetation</li> <li>• Loss of topsoil</li> <li>• Possible loss</li> </ul>	Medium Negative	<ul style="list-style-type: none"> <li>• Vegetation clearance will be limited to the required area.</li> <li>• A permit for the removal of protected plant species will be obtained before the removal of these species (if any).</li> <li>• Speed limit will be enforced on the</li> </ul>	Low Negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<p>of vegetative species of conservation concern</p> <ul style="list-style-type: none"> <li>• Noise elevation due to construction activities</li> <li>• Nuisance dust generation</li> <li>• Visual impact of stockpiled material</li> </ul>		<p>construction vehicles and these vehicles will only make use of designated roads / pathways.</p> <ul style="list-style-type: none"> <li>• Dust control measures will be implemented if nuisance dust generation occurs during the construction period.</li> <li>• Stockpiled material will be stored in such a way to limit the loss thereof. For example: <ul style="list-style-type: none"> <li>- Bricks may be placed around the stockpiles, to limit the loss thereof due to rainy events.</li> <li>- Stockpiles should not be higher than 1.5 m.</li> <li>- The gradient of stockpiles should not be greater than 1:1.5.</li> </ul> </li> </ul>	
		<p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>• Erosion</li> </ul>	<p>Medium Negative</p>	<ul style="list-style-type: none"> <li>• Establishment of alien / invader vegetation will be monitored and these species will be removed by hand or by an approved chemical</li> </ul>	<p>Low Negative</p>

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<ul style="list-style-type: none"> <li>• Establishment of alien / invader vegetation species</li> <li>• Possible impact on heritage artefacts</li> <li>• Loss of fauna on site</li> </ul>		<p>before gestation thereof.</p> <ul style="list-style-type: none"> <li>• All archaeological findings (if any) should be recorded and reported to SAHRA. No construction activities in the area may proceed without the authorisation from SAHRA.</li> <li>• Storm water measures will be implemented in order to manage storm water and this will also prevent erosion.</li> <li>• A storm water management plan will be compiled and designed to: <ul style="list-style-type: none"> <li>- Reduce and / or prevent erosion.</li> <li>- Ensure that no ponding of water takes place.</li> </ul> </li> <li>• Visual inspections for the occurrence of erosion should be undertaken on a weekly basis.</li> <li>• No animals may be captured /</li> </ul>	

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
				<p>harmed / killed on site.</p> <ul style="list-style-type: none"> <li>Any occurrences of harmed animals should be reported to the ECO and recorded as such.</li> </ul>	
		<p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>Erosion</li> <li>Establishment of alien vegetation species</li> <li>Possible impact on heritage artefacts</li> <li>Loss of fauna on site</li> </ul>	Medium Negative	<ul style="list-style-type: none"> <li>Establishment of alien / invader vegetation will be monitored and these species will be removed by hand or by an approved chemical before gestation thereof.</li> <li>All archaeological findings (if any) should be recorded and reported to SAHRA. No construction activities in the area may proceed without the authorisation from SAHRA.</li> <li>Storm water measures will be implemented in order to manage storm water and this will also prevent erosion.</li> </ul>	Low Negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
				<ul style="list-style-type: none"> <li>• Visual inspections for the occurrence of erosion should be undertaken on a weekly basis.</li> <li>• No animals may be captured / harmed / killed on site.</li> <li>• Any occurrences of harmed animals should be reported to the ECO and recorded as such.</li> </ul>	
	Handling of waste	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Spillage of material to be utilised during the construction phase as well as untreated sewage to the surrounding environment</li> </ul>	Medium – High Negative	<ul style="list-style-type: none"> <li>• No waste (general / construction / potential hazardous / etc.) may be dumped in the veld / water features.</li> <li>• Waste classification should be undertaken.</li> <li>• Suitable waste bins etc. will be available on site for the temporary disposal of waste.</li> <li>• Waste will be removed from site and disposed of at an authorised landfill site.</li> <li>• Visual inspections for the occurrence</li> </ul>	Low Negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<ul style="list-style-type: none"> <li>Dumping of construction rubble and general waste on site</li> </ul>		<ul style="list-style-type: none"> <li>of pollution should be undertaken daily.</li> <li>Waste associated with the port-a-loos (during the construction phase) should be removed from site on a regular basis and handled according to best practices.</li> </ul>	
		<p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>Soil and groundwater pollution due to spillage of potential hazardous substances such as hydraulic material and untreated sewage.</li> </ul>	Medium – High Negative	<ul style="list-style-type: none"> <li>Spills should be cleaned up immediately according to best practices</li> <li>Record should be kept on site to indicate date of visual inspection, any spillages observed, and manner in which spill was treated.</li> <li>Waste associated with the port-a-loos (during the construction phase) should be removed from site on a regular basis and handled according to best practices.</li> </ul>	Low Negative



Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>Possible pollution of downstream watercourses</li> </ul>	Medium – High Negative	<ul style="list-style-type: none"> <li>Spills should be cleaned up immediately according to best practices</li> <li>Record should be kept on site to indicate date of visual inspection, any spillages observed, and manner in which spill was treated.</li> <li>Waste associated with the port-a-loos (during the construction phase) should be removed from site on a regular basis and handled according to best practices.</li> </ul>	Low Negative
	Health and Safety	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>Road safety, especially at road crossings / workings near roads</li> </ul>	Medium Negative	<ul style="list-style-type: none"> <li>The necessary precautions with regard to road safety will be implemented for construction work within road crossings.</li> <li>Speed limit will be enforced on the construction vehicles and these vehicles will only make use of designated roads / pathways.</li> </ul>	Low Negative
		<b>Indirect</b>	Medium	<ul style="list-style-type: none"> <li>Fire extinguishers will be available,</li> </ul>	Low

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<b>impacts:</b> <ul style="list-style-type: none"> <li>• Possible fire outbreaks</li> <li>• Injuries on site</li> </ul>	Negative	where required. <ul style="list-style-type: none"> <li>• The correct PPE will be worn by all employees at all times.</li> </ul>	Negative
		<b>Cumulative impacts:</b> <ul style="list-style-type: none"> <li>• Possible fire outbreaks</li> <li>• Injuries on site</li> </ul>	Medium Negative	<ul style="list-style-type: none"> <li>• Fire extinguishers will be available, where required.</li> <li>• The correct PPE will be worn by all employees at all times.</li> </ul>	Low Negative
Operational phase	This phase consists of the use of the road. Maintenance and repair will be undertaken on the road and associated infrastructure	<b>Direct impacts:</b> <ul style="list-style-type: none"> <li>• Deterioration of the WWTW infrastructure in the long term.</li> </ul>	Medium - Low Negative	<ul style="list-style-type: none"> <li>• Maintenance and repair will be undertaken on the WWTW infrastructure when necessary.</li> </ul>	Low Negative
		<b>Indirect</b>	Medium –	<ul style="list-style-type: none"> <li>• Establishment of alien vegetation will</li> </ul>	Low

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
	when necessary.	<p><b>impacts:</b></p> <ul style="list-style-type: none"> <li>• Establishment of alien / invader species due to previous disturbance will also be associated with this phase.</li> <li>• Increase in noise levels is possible.</li> <li>• Erosion</li> </ul>	Low Negative	<ul style="list-style-type: none"> <li>• be monitored and alien species will be removed by hand or by an approved chemical before gestation thereof.</li> <li>• Proper erosion mitigation measures should be implemented.</li> <li>• Noise levels (associated with the vehicles using the road) will be kept within an acceptable threshold.</li> </ul>	Negative
		<p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>• Establishment of alien /</li> </ul>	Medium – Low Negative	<ul style="list-style-type: none"> <li>• Maintenance and repair will be undertaken on the infrastructure when necessary.</li> <li>• Proper erosion mitigation measures</li> </ul>	Low Negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<p>invader species due to previous disturbance will also be associated with this phase.</p> <ul style="list-style-type: none"> <li>• Increase in noise levels is possible.</li> <li>• Erosion</li> </ul>		<p>should be implemented.</p> <ul style="list-style-type: none"> <li>• Noise levels (associated with the vehicles using the road) will be kept within an acceptable threshold.</li> </ul>	
Decommissioning and Closure	Activities associated with the decommissioning phase will be limited to the rehabilitation of areas disturbed during the construction	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Rehabilitation of disturbed area</li> <li>• Re-vegetation</li> <li>• Limit</li> </ul>	Medium Positive	<ul style="list-style-type: none"> <li>• All temporary infrastructure related to the construction phase will be removed from site.</li> <li>• Temporary concrete surfaces will be removed and compacted areas ripped.</li> <li>• The establishment of natural occurring vegetation will be encouraged.</li> </ul>	High Positive

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
	phase. All disturbed areas will be rehabilitated according to best practices. A rehabilitation plan will be developed, if it is decided to decommission the road and associated infrastructure before the cessation of the operation aspects of the proposed project. The rehabilitation plan will include management and mitigation	<p>occurrence of erosion</p> <ul style="list-style-type: none"> <li>• Proper storm water control</li> <li>• No ponding on site</li> <li>• Limit visual impact</li> </ul>		<ul style="list-style-type: none"> <li>• No waste will be dumped on site and any waste occurring on site will be removed and disposed of according to best practices.</li> <li>• Establishment of extensive alien species will be monitored.</li> <li>• Area will be levelled to ensure that no ponding occurs on site.</li> </ul>	
		<p><b>Indirect impacts:</b></p>	Medium Positive	<ul style="list-style-type: none"> <li>• Temporary infrastructure related to the construction phase will be removed from site.</li> <li>• Temporary concrete surfaces (if any) will be removed and compacted areas ripped.</li> <li>• The establishment of natural occurring vegetation will be encouraged.</li> <li>• No waste will be dumped on site and any waste occurring on site will be removed and disposed of according</li> </ul>	High Positive

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
	measures to be implemented during the decommissioning of the project.	<ul style="list-style-type: none"> <li>Rehabilitation of disturbed area</li> </ul>		<ul style="list-style-type: none"> <li>to best practices.</li> <li>Establishment of extensive alien species will be monitored.</li> </ul>	
		<p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>Rehabilitation of disturbed area</li> </ul>	Medium Positive	<ul style="list-style-type: none"> <li>The disturbed area will be hydro seeded to reinstate vegetation growth, where required.</li> <li>Establishment of alien vegetation will be monitored and alien species will be removed by hand or by an approved chemical before gestation thereof.</li> </ul>	High Positive
No-go	Keeping the status quo	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>No direct environmental impacts.</li> </ul>	N/A	<ul style="list-style-type: none"> <li>N/A</li> </ul>	N/A
		<p><b>Indirect impacts:</b></p>	Medium Negative	<ul style="list-style-type: none"> <li>No employment opportunities will be created</li> </ul>	Medium Negative

Phase	Activity	Impact summary	Significance without mitigation	Proposed mitigation	Significance with mitigation
		<ul style="list-style-type: none"> <li>Loss of employment opportunities during the construction phase</li> </ul>			
		<p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>Loss of employment opportunities during the construction phase</li> </ul>	Medium Negative	<ul style="list-style-type: none"> <li>No employment opportunities will be created</li> </ul>	Medium Negative

A complete impact assessment in terms of Regulation 19(3) of GN 982 must be included as Appendix F.

## 2. ENVIRONMENTAL IMPACT STATEMENT

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

### Alternative 1 Preferred

- Establishment of alien vegetation will be monitored and alien species will be removed by hand or by an approved chemical before seeding thereof takes place.
- Protected plant species will be removed from site – the required approval thereof will be obtained before any removal / transplantation takes place.
- Storm water measures will be implemented in order to manage storm water and this will also prevent erosion
- Possible impacts anticipated during the construction and operational phases can be kept to a minimum with proper management and if the recommendations of the EMPr in Appendix G are adhered to.

### Alternative 2 Site / Locality

All of the above, including:

- Dust control measures will be implemented if nuisance dust generation occurs during the operational phase
- The road condition will be monitored after each rainy event and repaired as soon as possible
- This is due to the following:
  - Safety hazards caused by wet road surface
  - Environmental impacts associated with storm water run-off and erosion

### Alternative 3 Design and Layout

All of the above, including:

- Dust control measures will be implemented if nuisance dust generation occurs during the operational phase
- The road condition will be monitored after each rainy event and repaired as soon as possible
- This is due to the following:
  - Safety hazards caused by wet road surface
  - Environmental impacts associated with storm water run-off and erosion

### Alternative 4 Type and Technology

All of the above, including:

- Dust control measures will be implemented if nuisance dust generation occurs during the operational phase



- The road condition will be monitored after each rainy event and repaired as soon as possible
- This is due to the following:
  - Safety hazards caused by wet road surface
  - Environmental impacts associated with storm water run-off and erosion

**No-go alternative (compulsory)**

The proposed development on Erven 30375 and 30376 will not be undertaken. This will lead to a loss of many possible temporary as well as permanent employment opportunities.

**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	
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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
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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.

Refer to the EMPr in Appendix G for recommended mitigation measures.
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Is an EMPr attached?

YES	
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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.

Neil Devenish

NAME OF EAP

  
SIGNATURE OF EAP

26 April 2017

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 D<sub>1</sub>: Heritage

Appendix D<sub>2</sub>: Ecological

**Appendix E:** Public Participation

Appendix E<sub>1</sub>: List of identified possible IAPs

Appendix E<sub>2</sub>: Proof of notification

Appendix E<sub>3</sub>: List of registered parties

Appendix E<sub>4</sub>: Copy of comments received and response to comments received

Appendix E<sub>5</sub>: Proof of submission of dBAR to registered parties

**Appendix F:** Impact Assessment

**Appendix G:** Environmental Management Programme (EMPr)

**Appendix H:** Details of EAP and expertise

**Appendix I:** Specialist's declaration of interest

**NOTE: Declaration by EAP is attached to Appendix H.**

Heritage

Ecological

**Appendix J:** Additional Information

Appendix J<sub>1</sub>: Information regarding Municipal Plans

Appendix J<sub>2</sub>: Title Deed Document

**Appendix K:** Stormwater Management Plan