



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM

BASIC ASSESSMENT REPORT - EIA REGULATIONS, 2014

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.

File Reference Number:

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NEAS Reference Number:

(For official use only)

Date Received:

Due date for acknowledgement:

Due date for acceptance:

Due date for decision

Kindly note that:

1. The report must be compiled by an independent Environmental Assessment Practitioner.
2. 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.
3. Where applicable **tick** the boxes that are applicable in the report.
4. 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 Department of Economic Development, Environment and Tourism as the competent authority (Department) for assessing the application, it may result in the rejection of the application as provided for in the regulations.
5. An incomplete report may be returned to the applicant for revision.
6. Unless protected by law, all information in the report will become public information on receipt by the department. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.

7. The Act means the National Environmental Management Act (No. 107 of 1998) as amended.
8. Regulations refer to Environmental Impact Assessment (EIA) Regulations of 2014.
9. The Department may require that for specified types of activities in defined situations only parts of this report need to be completed. No faxed or e-mailed reports will be accepted.
10. This application form must be handed in at the offices of the Department of Economic Development, Environment and Tourism: -

<p><u>Postal Address:</u></p> <p>Central Administration Office Environmental Impact Management P. O. Box 55464 POLOKWANE 0700</p>	<p><u>Physical Address:</u></p> <p>Central Administration Office Environmental Affairs Building 20 Hans Van Rensburg Street / 19 Biccard Street POLOKWANE 0699</p>
<p>Queries should be directed to the Central Administration Office: Environmental Impact Management: -</p> <p>For attention: Mr E. V. Maluleke Mobile: 082 947 7755 Email: malulekeev@ledet.gov.za</p>	

View the Department's website at [http://www.ledet.gov.za/](http://www.ledet.gov.za) for the latest version of the documents.

SECTION A: ACTIVITY INFORMATION

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

NO

If YES, please complete the form entitled “Details of specialist and declaration of interest” or appointment of a specialist for each specialist thus appointed:

Any specialist reports must be contained in Appendix D.

1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for, in detail¹:

Leago Environmental Solutions was appointed by Real Development Planning Company on behalf of the Modimolle-Mookgophong Local Municipality as an independent environmental assessment practitioner to undertake the Environmental Impact Assessment Process i.e., Basic Assessment Process in terms of the National Environmental Management Act (No. 107 of 1998) read with the Environmental Impact Assessment Regulations, (GNR 326 of 7 April 2017), for the purpose of establishing a township. The proposed township establishment is to be situated on a Portion of the Remainder of Portion 3 of the Farm Naboomspruit 348 KR, in Limpopo Province.

The proposed development entails 91 stands for:

- 85 Residential 1 (dwelling house)
- 1 Business 1 (shop and other related uses)
- 2 Institutional (orphanage and early childhood development centre)
- 1 Place of Public Worship (church)
- 1 Municipal (municipal commonage)
- 1 Government (social services office)

The proposed development site covers approximately 9.5 hectares in extent.

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—

¹ Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description.

(a) the property on which or location where it is proposed to undertake the activity;

Due to land availability, the proposed development site is the only site that has been identified for establishing a township. Therefore, site alternatives are not applicable for this project.

(b) the type of activity to be undertaken;

The current preferred activity is deemed to be the only feasible activity alternative as this activity will result in improved housing which can accommodate more people. No other activities were considered in this application due to the assessed need and feasibility of the proposed activity

(c) the design or layout of the activity;

The unique character and appeal of Naboomspruit were taken into consideration with the design philosophy. Various layout alternatives were considered by the applicant and town planners, also taking terrain and environmental constraints into account, hence the current design/ layout plan being the result, however there is a possibility of a layout alternative that will still meet the objective of the project scope.

(d) the technology to be used in the activity;

The proposed township establishment will be under controlled conditions and it is not expected to have negative effects on the quality of the environment. All the mitigation measures are provided in the EMP.

(e) the operational aspects of the activity; and

The operational aspects of the activity relate to the improved housing for the local community. No other alternatives were deemed feasible other than the proposed activity.

(f) the option of not implementing the activity.

This option would come into effect if this assessment reveals fatal flaws in the process. To date no fatal flaws have been revealed. The no-go alternative of not developing the proposed site would leave the environment in the current state

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity 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 Department 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.

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

3. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the Hartebeeshoek 94 WGS84 spheroid in a national or local projection.

List alternative sites, if applicable.

Latitude (S):

Longitude (E):

Alternative:

Alternative S1² (preferred or only site alternative)

24°	31'	52"	28°	43'	01,59"

Alternative S2 (if any)

Alternative S3 (if any)

In the case of linear activities:

Alternative:

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only route alternative)

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

Alternative S2 (if any)

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

Alternative S3 (if any)

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

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

4. PHYSICAL SIZE OF THE ACTIVITY

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

² "Alternative S.." refer to site alternatives.

Alternative:

Alternative A1³ (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

or,

for linear activities:

Size of the activity:

95 000 m ²

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Length of the activity:

N/A

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

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the site/servitude:

N/A

5. SITE ACCESS

Does ready access to the site exist?

YES	<input type="checkbox"/>
<input type="checkbox"/>	

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

Describe the type of access road planned:

There is an existing functioning road network that can be used to access the proposed development.
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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.

³ "Alternative A.." refer to activity, process, technology or other alternatives.

6. SITE OR 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:

- 6.1 the scale of the plan which must be at least a scale of 1:500;
- 6.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;
- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 all trees and shrubs taller than 1.8 metres;
- 6.7 walls and fencing including details of the height and construction material;
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - rivers;
 - the 1:100-year flood line (where available or where it is required by Department of Water Affairs);
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 6.10 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.11 the positions from where photographs of the site were taken.

7. 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 form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 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.

11. ACTIVITY MOTIVATION

9(a) 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?	YES	
Is the activity a public amenity?	YES	
How many new employment opportunities will be created in the development phase of the activity?	Unknown	
What is the expected value of the employment opportunities during the development phase?	Unknown	
What percentage of this will accrue to previously disadvantaged individuals?	Unknown	
How many permanent new employment opportunities will be created during the operational phase of the activity?	Unknown	
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?	Unknown	

9(b) Need and desirability of the activity

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

NEED:		
i.	Was the relevant municipality involved in the application?	YES
ii.	Does the proposed land use fall within the municipal Integrated Development Plan?	YES
iii.	If the answer to questions 1 and / or 2 was NO, please provide further motivation / explanation:	

DESIRABILITY:		
i.	Does the proposed land use / development fit the surrounding area?	YES
ii.	Does the proposed land use / development conform to the relevant structure plans, Spatial development Framework, Land Use Management Scheme, and planning visions for the area?	YES
iii.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES
iv.	If the answer to any of the questions 1-3 was NO, please provide further motivation / explanation:	
v.	Will the proposed land use / development impact on the sense of place?	NO
vi.	Will the proposed land use / development set a precedent?	NO
vii.	Will any person's rights be affected by the proposed land use / development?	NO

viii.	Will the proposed land use / development compromise the “urban edge”?	<input type="checkbox"/>	<input checked="" type="checkbox"/> NO
ix.	If the answer to any of the question 5-8 was YES, please provide further motivation / explanation.		

BENEFITS:			
i.	Will the land use / development have any benefits for society in general?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/>
ii.	Explain: The development will benefit the society as they will have access to housing with other complimentary uses such as an orphanage, early childhood development center, shops and a public place of worship. The proposed development will also provide job opportunities during the construction and operational phases of the township .		
iii.	Will the land use / development have any benefits for the local communities where it will be located?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/>
iv.	Explain:		
	The proposed development will increase the availability of housing in the community thus decreasing homelessness. This development will also promote the economic growth within the Modimolle – Mookgophong Local Municipality.		

10. 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:	ADMINISTERING AUTHORITY:	DATE:
South Africa’s Constitution (No. 108 of 1996)	National Government	1996
National Environmental Management Act (No. 107 of 1998)	Department of Forestry, Fisheries and the Environment	1998
EIA Regulations (GNR 326)	Department Environmental Affairs	2017
National Heritage Resources Act (No. 25 of 1999)	South African Heritage Resource Agency	1999
National Water Act (No. 36 of 1998)	Department of Water and Sanitation	1998
National Environmental Management: Biodiversity Act (No. 10	Department of Environment,	2004

of 2004)	Forestry	
National Water Act (No. 36 of 1998)	Department of Water and Sanitation	1998
Limpopo Environmental Management Act (No. 7 of 2003)	Limpopo Department of Economic Development, Environmental and Tourism (LEDET)	2003

11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

11(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?

The amount of waste will be known and made available during the construction phase

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

All solid waste generated during the construction phase will be placed in a bulk waste collection area in the construction camp. Litter collection bins will be provided within the construction site not far from each other and will be regularly be disposed. Separation of waste and recycling of paper, glass, cardboards, etc. will be a priority. There will be no burning of waste on site and construction materials that will not be used will be taken out once construction comes to an end.

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

A landfill situated nearest the site is to be used to dispose all solid waste.

Will the activity produce solid waste during its operational phase?

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

YES

The amount of waste will be known and made available during the operational phase of the township

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

Different kinds of waste will be produced during the operational phase of the township of which none of the waste will be of magnitude concern. The solid waste will consist of general refuse (litter) generated by the residents. Bulk bins, refuse bags and refuse removal will have to be provided for the proposed township.

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

The waste will be collected and disposed at a registered landfill site

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 department 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 relevant legislation? NO

If yes, inform the department and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility? NO

If yes, then the applicant should consult with the Department to determine whether it is necessary to change to an application for scoping and EIA.

11(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? Not Applicable

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 Department 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:

Facility name:		
Contact person:		
Postal address:		
Postal code:		
Telephone:		
E-mail:		

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

Not Applicable

11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere? YES

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

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

The emissions will mostly be in the form of dust during the construction phase. During operational phase there won't be any emissions to the atmosphere. We therefore suggest that a detailed Air Quality Study would not be necessary.

11(d) Generation of noise

Will the activity generate noise?

YES	
	NO

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

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

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

The noise that will be generated will be moderate noise of construction machinery during the construction phase.

12. WATER USE

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

<input checked="" type="checkbox"/> municipal	<input type="checkbox"/> water board	<input type="checkbox"/> groundwater	<input type="checkbox"/> river, stream, dam or lake	<input type="checkbox"/> Other (borehole)	<input type="checkbox"/> the activity will not use water
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate

the volume that will be extracted per month:

	Litres
	NO

Does the activity require a water use permit from the Department of Water Affairs?

If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

13. ENERGY EFFICIENCY

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

Design measures will completely be environmentally friendly. The following measures will be considered:

- The architectural design must ensure that there is a proper natural flow of air into and outside of the buildings occurs deliberately as ventilation.
- Proper insulation of the ceilings is required because as much as 50% of heat losses in a building can be attributed to a lack of ceilings and ceiling insulation, this will significantly reduce heating and cooling expenses.

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

Power Supply

- Conservation of energy or the usage of renewal and sustainable energy technology must be a priority. This can be in the form of solar panels that generate and store electricity.

Lighting

- Compact fluorescent light bulbs are recommended as compared to ordinary light bulbs .

SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

1. 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 C and indicate the area, which is covered by each copy No. on the Site Plan.

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

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

3. 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:

All specialist reports must be contained in Appendix D.

Property description/physical address:

A Portion of the Remainder of Portion 3 of the Farm Naboomspruit 348 KR.

(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

Current land-use zoning:

Industrial 1

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

Must a building plan be submitted to the local authority?

YES

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 indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection)

1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S2 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S3 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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2. LOCATION IN LANDSCAPE

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

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

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

	Alternative S1:	Alternative S2 (if any):	Alternative S3 (if any):
Shallow water table (less than 1.5m deep)	NO		
Dolomite, sinkhole or doline areas	NO		
Seasonally wet soils (often close to water bodies)	NO		
Unstable rocky slopes or steep slopes with loose soil	NO		
Dispersive soils (soils that dissolve in water)	NO		
Soils with high clay content (clay fraction more than 40%)	NO		
Any other unstable soil or geological feature	NO		
An area sensitive to erosion	NO		

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

4. GROUNDCOVER

Indicate the types of groundcover present on the site:

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

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

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

Please note that the section above was completed with the assistance of an ecological specialist, the Ecology / Biodiversity Impact Assessment study is attached Appendix D1 of this report.

5. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that does 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:

5.1 Natural area	X	5.22 School	
5.2 Low density residential		5.23 Tertiary education facility	
5.3 Medium density residential		5.24 Church	
5.4 High density residential	X	5.25 Old age home	
5.5 Medium industrial ^{AN}		5.26 Museum	
5.6 Office/consulting room		5.27 Historical building	
5.7 Military or police base/station/compound		5.28 Protected Area	
5.8 Spoil heap or slimes dam ^A		5.29 Sewage treatment plant ^A	
5.9 Light industrial	X	5.30 Train station or shunting yard ^N	
5.10 Heavy industrial ^{AN}		5.31 Railway line ^N	X
5.11 Power station		5.32 Major road (4 lanes or more)	
5.12 Sport facilities	X	5.33 Airport ^N	
5.13 Golf course		5.34 Harbour	
5.14 Polo fields		5.35 Quarry, sand or borrow pit	
5.15 Filling station ^H		5.36 Hospital/medical centre	
5.16 Landfill or waste treatment site		5.37 River, stream or wetland	
5.17 Plantation		5.38 Nature conservation area	
5.18 Agriculture		5.39 Mountain, koppie or ridge	
5.19 Archaeological site		5.40 Graveyard	
5.20 Quarry, sand or borrow pit		5.41 River, stream or wetland	
5.21 Dam or Reservoir		5.42 Other land uses (describe): Crèche	X

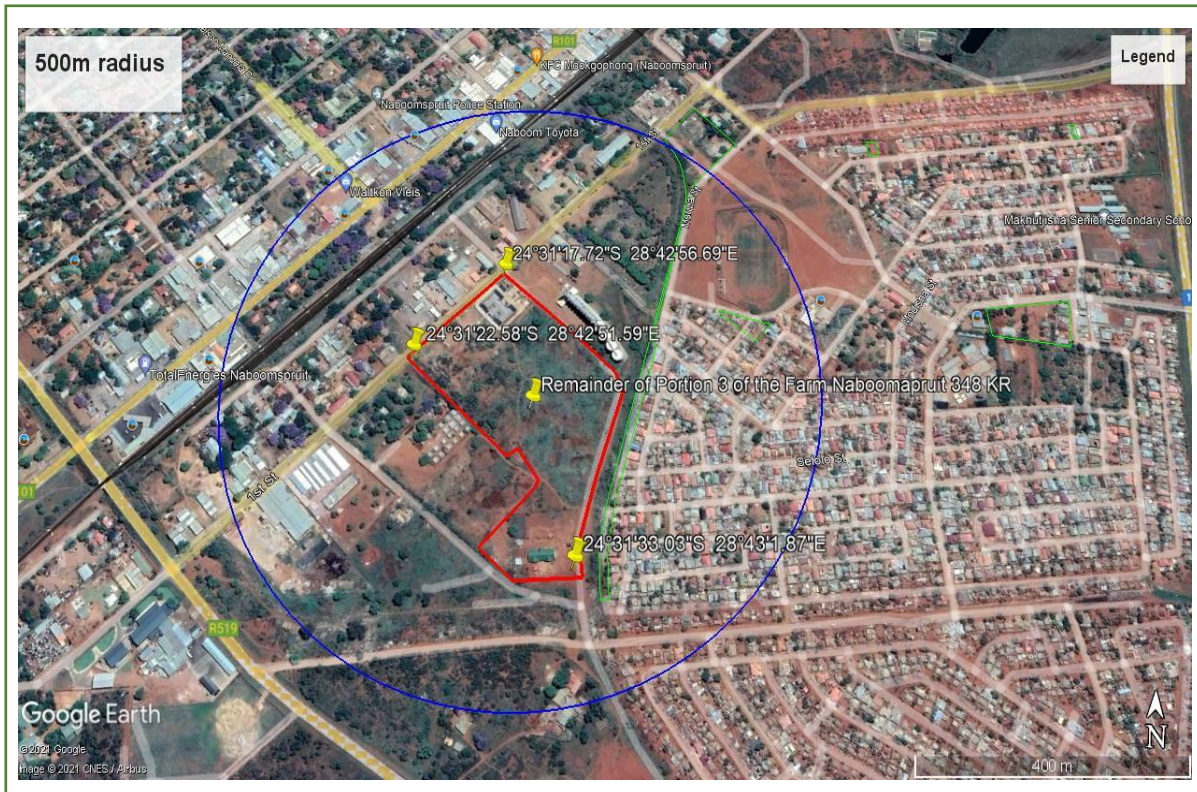


Figure 1: 500m radius of the proposed development site

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

The railway line will not be impacted on by the proposed development.

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

If YES, specify and explain:	Not Applicable
If NO, specify:	Not Applicable

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

If YES, specify and explain:	Not Applicable
If NO, specify:	Not Applicable

6. 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

NO

Archaeological or palaeontological sites, on or close (within 20m) to the site?

If YES,
explain:

If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.

Briefly
explain the
findings of
the specialist:

The examination of historical topographic maps and aerial images showed no structures or stone walled settlements in the study area and the impact footprint is considered to be of low heritage potential. This was confirmed during a site visit and no heritage finds of significance were recorded during the survey. According to the SAHRA paleontological sensitivity map, the study area is of insignificant paleontological significance and no further studies are required for this aspect.

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

NO

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

NO

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the department) at a place conspicuous to the public at the boundary or on the fence of—
 - (i) the site where the activity to which the application relates is or is to be undertaken; and
 - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
 - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
 - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;

- (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
 - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
 - (v) the municipality which has jurisdiction in the area;
 - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
 - (vii) any other party as required by the department;
- (c) placing an advertisement in—
- (i) one local newspaper; or
 - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the department, in those instances where a person is desiring of but unable to participate in the process due to—
- (i) illiteracy;
 - (ii) disability; or
 - (iii) any other disadvantage.

2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—
 - (i) that the application has been submitted to the department in terms of these Regulations, as the case may be;
 - (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
 - (iii) the nature and location of the activity to which the application relates;
 - (iv) where further information on the application or activity can be obtained; and
 - (v) the manner in which and the person to whom representations in respect of the application may be made.

3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be

submitted to the department in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these Regulations.

Advertisements and notices must make provision for all alternatives.

4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the department to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in these Regulations and be attached to this application. The comments and response report must be attached under Appendix E.

6. AUTHORITY PARTICIPATION

Please note that a complete list of all organs of state and or any other applicable authority with their contact details must be appended to the basic assessment report or scoping report, whichever is applicable.

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input.

NAME OF AUTHORITY INFORMED:	COMMENTS RECEIVED (YES OR NO)
Limpopo Department of Economic Development, Environment and Tourism	No
Waterberg District Municipality	No
Modimolle - Mookgophong Local Municipality	No
Department of Water and Sanitation	No
Department of Public Works and Rural Development	No
Department of Agriculture and Rural Development	No

South African Heritage Resource Agency

No

7. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that subregulation to the extent and in the manner as may be agreed to by the department.

Proof of any such agreement must be provided, where applicable.

Has any comment been received from stakeholders?

NO

If “YES”, briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

This report is still on a draft phase, therefore no comments have been received from the stakeholders as yet, however all the comments received will be included in the final basic assessment report.

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. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

This document is still in the draft phase, no issues were raised that needed to be addressed by the EAP, however, all the comments received from stakeholders, interested and affected parties will be included in the Comments and Response report that will be attached as an appendix on the final basic assessment report.

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report as Annexure E):

There are no issues raised so far that must be addressed by the practitioner

2. 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

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) 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.

Alternative (preferred alternative)

PLANNING AND DESIGN PHASE	
Direct Impacts	Proposed Mitigation
<ul style="list-style-type: none"> Poor Design- Structural failures 	<ul style="list-style-type: none"> Ensure compliance with the industry standards No-go areas must be determined and demarcated and agreed upon by contractors, engineers and ECO before any construction activities can occur onsite
Indirect Impacts	Proposed Mitigation
<ul style="list-style-type: none"> Disregard of legislative requirement 	<ul style="list-style-type: none"> Ensure compliance with relevant legislation and legal standards
Cumulative Impacts	Proposed Mitigation
No cumulative impacts are foreseen for the planning and design phase	N/A
CONSTRUCTION PHASE	
Direct Impacts	Proposed Mitigation
Loss of vegetation and faunal habitat, specifically the secondary woodland areas from construction of the township	<ul style="list-style-type: none"> Marula trees must not be removed. Where avoidance is impossible, a permit must be applied for. No collection of firewood, protected species or medicinal flora species must be allowed. Prevent impact of construction activities from extending into neighboring demarcated lands and fence construction camp and area. Avoid unnecessary loss of indigenous trees.
Increased risk of dust and erosion from clearing of vegetation and earth moving vehicles and dust from the transportation of construction material (i.e. sand)	<ul style="list-style-type: none"> All vehicles must be along existing lines or tracks. Erosion protection measures must be implemented on the site to reduce erosion and sedimentation of the receiving environment.

	<p>Measures could include:</p> <ul style="list-style-type: none"> ○ Sediment traps ○ Sandbags ○ Bunding around soil stockpiles <ul style="list-style-type: none"> ● Avoid translocation of top soil stockpiles from one place to another. ● Adequate dust control strategies should be applied to minimise dust disposition, they can include periodic spraying of roads with water, cover trucks to prevent dust emission during transportation. ● Material loads shall be suitably covered and secured during transportation ● The location of stockpiles shall take into consideration the prevailing wind directions and locations of sensitive receptors.
Waste collection services	<ul style="list-style-type: none"> ● The local municipality should be responsible for connecting and disposing solid waste, if the municipality is not able to provide this service, then a private company will need to be appointed by the development owners for the service.
Soil contamination and degradation	<ul style="list-style-type: none"> ● Spillages of fuels, oils and other potentially harmful chemicals must be cleaned up immediately and contaminants properly drained and disposed of using proper solid/ hazardous waste facilities. Any contaminated soil must be removed and the affected area rehabilitated. ● No vehicles, machinery or equipment with leaks or causing spills may be allowed to operate on the construction site.
Potential noise impact from the use of construction equipment	<ul style="list-style-type: none"> ● Limit construction activities to day time hours ● Construction personnel must wear personal protective equipment where appropriate ● All machineries to be utilised on the site must be fitted with mufflers and must be maintained in good working conditions in order to minimize noise. ● The contractor shall warn all local community that could be affected by the noise generation from construction activities
Increase in stormwater runoff resulting from construction activities	<ul style="list-style-type: none"> ● Temporary cut off drains and berms may be required to capture stormwater and promote

	infiltration.
Potential health injuries to construction personnel as a result of construction work	<ul style="list-style-type: none"> The contractor must ensure that all construction personnel are provided with adequate PPE for use where appropriate.
Disturbance of heritage resources from construction activities	<ul style="list-style-type: none"> SAHRA must immediately be alerted in case evident or artefacts, paleontological fossils, additional graves or heritage resources are discovered during the course of development.
Air quality impact: emissions from construction vehicles and generation of dust as a result of earthworks, as well as the delivery and mixing of construction materials	<ul style="list-style-type: none"> Ensure that cleared (excavated) areas and unpaved surfaces are sprayed with water (obtained from an approved source) to minimise dust generation. Approved soil stabilizers may be utilised to limit dust generation. Ensure that construction vehicles travelling on unpaved roads do not exceed a speed limit of 40 km/hour Adequate dust control strategies should be applied to minimise dust deposition, for example: Periodic spraying of the entrance road and environmentally friendly dust control measures (e.g. mulching and wetting) where and when dust is problematic
Indirect Impacts	Proposed Mitigation
Socio-economic impact: the community may benefit from the proposed development in the form of the provision of jobs in the construction phase of the development	<ul style="list-style-type: none"> Ensure that local industries are utilised as suppliers, where applicable/practical Enhance the use of local labour and local skills as far as reasonably possible. Ensure that an equitable percentage allocation is provided for local labour employment.
Air Quality Impact: emissions from construction vehicles and generation of dust as a result of earthworks, as well as the delivery and mixing of construction materials	<ul style="list-style-type: none"> Ensure that dust suppressants (obtained from an approved source) are used on cleared (excavated) areas and unpaved surfaces to minimise dust generation.
Cumulative Impacts	Proposed Mitigation
Spillages of oil, lubricants and fuel from construction vehicles, plant and machinery has the potential to contaminate soil and underground water.	<ul style="list-style-type: none"> All construction vehicles, plant, machinery and equipment must be properly maintained to prevent leaks
OPERATIONAL PHASE	
Direct Impacts	Proposed Mitigation
Visual impacts will increase during the operation phase due	<ul style="list-style-type: none"> The layout of the township must be maintained

to development and lighting	<p>as per the layout plan.</p> <ul style="list-style-type: none"> • Compact fluorescent light bulbs are recommended as compared to ordinary light bulbs .
Lack of road maintenance will lead to a deterioration in the internal and access roads	<ul style="list-style-type: none"> • Road maintenance must be done regularly by the Modimolle-Mookgophong Municipality
Risk of fire explosion	<ul style="list-style-type: none"> • Adequate firefighting training must be given to staff. • Ensure that relevant signage e.g. no smoking, is displayed in potentially dangerous areas and is abided by.
Socio-economic impact: skills development opportunities and economic spin off activities will also occur during the operational phase.	<ul style="list-style-type: none"> • Enhance the use of local labour and local skills as far as reasonably possible. • Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained. • Ensure that goods and services are sourced from the local community as far as possible
Indirect Impacts	Proposed Mitigation
Impact on the surrounding community in terms of visibility and great environment	<ul style="list-style-type: none"> • Ensure that surrounding gardens are well maintained. The planting of indigenous vegetation is encouraged. • Use water sparingly in maintaining gardens.
Cumulative Impacts	Proposed Mitigation
Infrastructure and services	Integrity of services and infrastructure should be ensured to prevent a negative impact on the surrounding residential area.
Decommissioning and Closure Phase	
<p>At this stage decommissioning is not foreseen in the near future. At the time it might become applicable, an Environmental Impact Assessment must be undertaken in terms of Listed Activity No 31 (i) of R326 of the National Environmental Management Act, 1998 (Act No 107 of 1998), as amended; or else compliance with the environmental legislation requirements applicable at that time must take place.</p>	

3. ENVIRONMENTAL IMPACT STATEMENT

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

Alternative A (preferred alternative)

From the impact assessment of the biophysical and socio-economic aspects discussed in this report, it is evident that the proposed township establishment is suitable for the site assessed. It should however be noted that this is only if the development is planned and managed in accordance with the mitigation measures described in this report, the specialist studies (especially the mitigation measures as supplied in the ecological, heritage, wetland, geotechnical, civil engineering services and electrical studies) and in the Environmental Management Plan (EMP). Furthermore, this project will also create employment opportunity for local residents.

THE SOCIO-ECONOMIC ENVIRONMENT

During Construction Phase:

The proposed development will have a positive impact on the economy due to the employment opportunities more especially to the surrounding community. It will be beneficial to the community as they will have access to improved housing with better infrastructure service provisions.

During Operational Phase:

The proposed development will have a positive impact on the socio-economic environment during the operational phase due to permanent employment opportunities that may arise from the complimentary businesses.

THE BIOPHYSICAL ENVIRONMENT

During Construction Phase:

The biophysical environment will be affected by construction activities that could result in vegetation removal, noise and dust. However, there are mitigation measures put in place to prevent the impacts as indicated on the Environmental Management Plan.

During Operational Phase:

All negative impacts that are likely to occur in this phase are not of significance as there are mitigation measures that are already put in place to control and protect the environment.

Results of the impact assessment:

None of the impacts identified are regarded as adverse impacts that cannot be mitigated to acceptable levels and therefore Leago Environmental Solutions is of the opinion that there are no “permanent flaws” associated with the proposed township establishment. Based on the results of the specialist reports, the proposed township establishment’s impacts that are brought about can be mitigated.

No-go alternative (compulsory)

The no-go alternative is not seen as a reasonable / feasible alternative as this will place the Modimolle-Mookgophong Local Municipality in such a position that it will not be able to provide residents with proper housing resulting in informal settlements caused by land invasions.

Alternative B

Alternative C

For more alternatives please continue as alternative D, E, etc.

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):

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 department in respect of the application:

The EAP recommends that the implementation and strict adherence to the Environmental Management Plan, (EMP) forms part of the conditions of the Environmental Authorisation for the development. The EAP also recommends that all mitigation measures as described in this Basic Assessment Report and specialist study reports be included as part of the conditions of the authorisation granted for the development. Furthermore, the developer should accept responsibility for appointing service providers that comply with the legislative requirements of the country and who have standing agreements with the necessary authorities where required.

The following measures/ plans must also be required as part of the approval:

- Communication or awareness must be undertaken by the project team to ensure maximum participation and compliance to the EMP.
- The EMP attached and the mitigation measures related to it must be adhered to at all times and the appointed Environmental Compliance Officer (ECO) must ensure that the developer complies with the EMP.
- An ECO must be appointed to monitor compliance with the authorization and develop compliance reports to be submitted to the Department during the construction phase.
- All of the recommendations in the specialist reports that are included as a part of this application should be implemented & strictly adhered to in order to counteract adverse and cumulative impacts to the biophysical & social environments.

Is an EMP attached?

YES

The EMP must be attached as Appendix F.

SECTION F: APPENDIXES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Comments and responses report

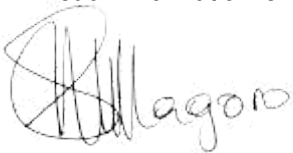
Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

SECTION G: DECLARATION BY THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

I, **Mankaleme Martina Magoro** declare that I –

- (a) act as the independent environmental practitioner in this application;
- (b) do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014;
- (c) do not have and will not have a vested interest in the proposed activity proceeding;
- (d) have no, and will not engage in, conflicting interests in the undertaking of the activity;
- (e) undertake to disclose, to the competent authority, any material information that has or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;
- (f) will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- (g) will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the Department in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the Department may be attached to the report without further amendment to the report;
- (h) will keep a register of all interested and affected parties that participated in a public participation process; and
- (i) will provide the Department with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.



Signature of the Environmental Assessment Practitioner:

Leago Environmental Solutions

Name of company:

15 June 2022

Date: