



higher education  
& training

Department:  
Higher Education and Training  
REPUBLIC OF SOUTH AFRICA

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# Proposed Development of Further Education Training College (FET) in Graaff-Reinet, Eastern Cape

## DRAFT BASIC ASSESSMENT REPORT

DEA Reference: 14/12/16/3/3/1/1031

PREPARED BY:



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P.O. BOX 1673  
SUNNINGHILL  
2157

147 Bram Fischer Drive  
FERNDALE  
2194

Tel: 011 781 1730  
Fax: 011 781 1731  
Email: [info@nemai.co.za](mailto:info@nemai.co.za)

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**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

(For official use only)

**File Reference Number:**

**Application Number:**

**Date Received:**


Basic assessment report in terms of the Environmental Impact Assessment Regulations, 2010, 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, 2010 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 **1 September 2012**. 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.

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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 on 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?

	NO X
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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**

Proposed Development of Further Education Training College (FET) in Graaf-Reinet, Eastern Cape.

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

Listed activity as described in GN R.544, 545 and 546	Description of project activity
<p><b>Example:</b>  <b>GN R.544 Item 11(3):</b> <i>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.</i></p>	<p><i>A bridge measuring 5 m in height and 10m in length, no wider than 8 meters will be built over the Orange river</i></p>
<p><b>GN R.544 Item 11:</b>                      The construction of:                      (xi) Infrastructure or structures covering 50 square meters or more;                      Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>	<p>The construction of infrastructure within 32 km of a watercourse.</p>
<p><b>GN R.544 Item 18:</b>                      The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from -                      (i) a watercourse;                      but excluding where such infilling, depositing,</p>	<p>The excavation of soil for construction within 32m of a watercourse.</p>

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<p>dredging, excavation, removal or moving</p> <p>(i) is for maintenance purposes undertaken in accordance with a management plan agreed to by the relevant environmental authority; or</p> <p>(ii) occurs behind the development setback line.</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 Regulation 22(2)(h) of GN R.543. 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.

#### a) Site alternatives

Please Note: There is only one proposed site for the project; however, layout alternatives are provided below.

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Graaf-Reinet Campus	32° 15' 53" S	24° 32' 08" E

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<b>Alternative 2</b>
<b>Alternative 3</b>

In the case of linear activities:

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

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.

Please refer to the table below for coordinates of the corners of the site alternatives.

**b) Lay-out alternatives**

<b>Alternative 1 (preferred alternative)</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
Graaf-Reinet Layout A - The site includes less buildings and more available open space.	32° 15' 53" S	24° 32' 08" E
<b>Alternative 2</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
Graaf-Reinet Layout B - The site includes more buildings and less available open space.	32° 15' 53" S	24° 32' 08" E
<b>Alternative 3</b>		

**c) Technology alternatives**

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

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

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

**e) No-go alternative**

If the development does not occur, no new college facility will be built. This will result in a lack of benefit to the local communities both with respect to job opportunities and procurement. Junior practitioners that could potentially take part in the proposed project will not be trained towards professional registration. The necessary elements of educational facilities will not be in place for the intake of students at the start of the 2014 academic year as defined in the tender clarifications. This would result in a lack of the necessary infrastructure required for improving education and skill levels in South Africa. The No-go alternative also results in a loss of job opportunities during construction and operation and an economic loss in terms of procurement.

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

## SITE ALTERNATIVES

There is only one site alternative for the proposed project; therefore Paragraphs 3-13 below will not be repeated.



**3. PHYSICAL SIZE OF THE ACTIVITY**

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

**Alternative:**

- Alternative A1<sup>1</sup> (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Size of the activity:**

26 000 m <sup>2</sup>

or, for linear activities:

**Alternative:**

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

**Length of the activity:**

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b) **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:**

27 200 m <sup>2</sup>

**4. SITE ACCESS**

Does ready access to the site exist?

YES	
X	

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

Describe the type of access road planned:

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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.

**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:

<sup>1</sup> "Alternative A.." refer to activity, process, technology or other alternatives.

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- 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 DWA);
- 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

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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>	YES X		Please explain
The land is vacant. The land makes provision for future educational infrastructure developments.			
<b>2. Will the activity be in line with the following?</b>			
<b>(a) Provincial Spatial Development Framework (PSDF)</b>	YES X		Please explain
The Camdeboo Spatial Development Framework (2008) recognises that the high level of illiteracy in Graaf-Reinet reflects the need for education facilities.			
<b>(b) Urban edge / Edge of Built environment for the area</b>	YES X		Please explain
The proposed development will not affect the Urban Edge.			
<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>	YES X		Please explain
The Camdeboo Local Municipality IDP suggests that local economic development should be achieved through Further and Higher Education and Training. The Camdeboo SDF states that community deserves equable access to education. The integrity of the IDP and SDF will not be compromised by the proposed development.			
<b>(d) Approved Structure Plan of the Municipality</b>	YES X		Please explain
Unknown at this stage. This project is aimed at improving the education status of the local community through the provision of further education colleges in Graaf-Reinet.			

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<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></p>	<p>YES X</p>		<p>Please explain</p>
<p>There is no EMF for the area; however, the Camdeboo IDP mentions that the development of education facilities are part of the provincial growth and development plan of Eastern Cape.</p>			
<p><b>(f) Any other Plans (e.g. Guide Plan)</b></p>		<p>NO X</p>	
<p>N/A.</p>			
<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>	<p>YES X</p>		<p>Please explain</p>
<p>The Camdeboo IDP recognises that new education institutions are required and this is therefore considered in future planning initiatives in the area.</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>	<p>YES X</p>		<p>Please explain</p>
<p>The project is needed because education facilities are required for the area in order to enhance education and skills for the community.</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>	<p>YES X</p>		<p>Please explain</p>
<p>Please refer to Appendix J.</p>			
<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></p>	<p>YES X</p>		<p>Please explain</p>
<p>Please refer to Appendix J. The Camdeboo IDP recognises that new education institutions are required and this is therefore considered in future planning initiatives in the area.</p>			

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<p><b>7. Is this project part of a national programme to address an issue of national concern or importance?</b></p>	<p>YES X</p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>Please explain</p>
<p>Enhancing the education and skills of the community is of importance.</p>			
<p><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></p>	<p>YES X</p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>Please explain</p>
<p>The proposed site is located on vacant land in an area where an education facility is necessary. Therefore the location for a new college is favoured as this will add to the various educational institutions in the area.</p>			
<p><b>9. Is the development the best practicable environmental option for this land/site?</b></p>	<p>YES X</p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>Please explain</p>
<p>A number of factors were considered in the selection of the site for the proposed FET college, such as geological conditions, topography, presence of rivers and wetlands, presence of heritage resources, biota, etc.</p>			
<p><b>10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?</b></p>	<p>YES X</p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>Please explain</p>
<p>Negative impacts will mainly be experienced during the construction phase of the project. The Environmental Management Programme (EMPr) attached as Appendix G to this Report makes provision for management as well as mitigation measures to be implemented during both the construction and operational phases of the project. The provision of education to surrounding areas is a necessity thus this benefit outweighs any negative impacts.</p>			
<p><b>11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?</b></p>	<p>YES X</p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>Please explain</p>
<p>It is possible that another education institution could be developed in the area in the future to add to the education of the area.</p>			
<p><b>12. Will any person's rights be negatively affected by the proposed activity/ies?</b></p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>NO X</p>	<p>Please explain</p>
<p>Persons' rights will be positively affected through the provision of education. Negative impacts will mainly occur during the construction phase of the project and are mitigated through the attached EMPr (Appendix G).</p>			
<p><b>13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?</b></p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>NO X</p>	<p>Please explain</p>
<p>The project will not impact the urban edge.</p>			

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<b>14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?</b>	YES X		Please explain
<p><b>SIP 14: Higher education infrastructure</b></p> <ul style="list-style-type: none"> <li>• Infrastructure development for higher education, focusing on lecture rooms, student accommodation, libraries and laboratories, as well as ICT connectivity.</li> <li>• Development of university towns with a combination of facilities from residence, retail to recreation and transport.</li> <li>• Potential to ensure shared infrastructure such as libraries by universities, FETs and other educational institutions.</li> </ul>			
<b>15. What will the benefits be to society in general and to the local communities?</b>	Please explain		
The development will enhance education and skills of the local community as well as provide job opportunities during the construction and operation phase. The project will also benefit the economy through procurement.			
<b>16. Any other need and desirability considerations related to the proposed activity?</b>	Please explain		
N/A			
<b>17. How does the project fit into the National Development Plan for 2030?</b>	Please explain		
The NDP aims to eliminate poverty and reduce inequality by 2030. According to the plan, South Africa can realise these goals by enhancing the capacity of the state, one way to do this is through provision of education for society.			
<b>18. Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.</b>			
This project considers socio-economic factors (heritage, and the value of the project regarding education and skills) along with specialist studies investigating potential effects on terrestrial and aquatic environments. As independent Environmental Assessment Practitioners, our task is to balance the impacts and suggest appropriate mitigation measures with the aim of minimising negative impact and enhancing benefits while promoting sustainable development.			
<b>19. Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.</b>			
The principles of NEMA have been taken into account through the consideration of the aspects and benefits of the FET college in terms of social factors as well as sustainable development. The use of specialists to identify possible impacts and mitigation measures allows for the proposed FET college to go forward in a manner than will have minimal impact on the environment.			

**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:

<b>Title of legislation, policy or guideline</b>	<b>Administering authority</b>	<b>Date</b>
Constitution of the Republic of South Africa (No. 108 of 1996)	National and Provincial	18 December 1996
National Environmental Management Act (No. 107 of 1998)	National: Department of Environmental Affairs (DEA)  Provincial: Gauteng Department of Agriculture and Rural Development (GDARD)	27 November 1998
Environmental Impact Assessment Regulations, 2010, promulgated in terms of Section 24(5) of NEMA.	National and Provincial	02 August 2010
National Water Act (No. 36 of 1998)	National and Provincial	26 August 1998
National Environmental Management: Biodiversity Act, 2004 (No. 10 of 2004)	National and Provincial	07 June 2004
National Environmental Management Waste Act (Act 59 of 2008)	National and Provincial	10 March 2009
National Heritage Resources Act (No. 25 of 1999)	National and Provincial	28 April 1999
Occupational Health & Safety Act (No. 85 of 1993)	National and Provincial	23 June 1993
South African Schools Act (No. 84 of 1996)	National and Provincial	6 November 1996
The Basic Education Laws Amendment Act (No. 15 of 2011)	National and Provincial	19 September 2011
Higher Education Amendment Act (No. 39 of 2008)	National and Provincial	04 February 2009
Further Education and Training Colleges Amendment Act (No. 1 of 2013)	National and Provincial	18 March 2013

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

**a) Solid waste management**

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

YES
X

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

Displaced solid material might be produced. The volume cannot be determined at this stage.

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

Disposed at nearest landfill site.

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

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### Municipal landfill sites.

Will the activity produce solid waste during its operational phase?

	NO X
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If YES, what estimated quantity will be produced per month?

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

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

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

*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?

	NO X
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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?

	NO X
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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 X
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If YES, what estimated quantity will be produced per month?

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

	NO X
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*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 X
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If YES, provide the particulars of the facility:

**Facility name:**

**Contact person:**

**Postal address:**

**Postal code:**

**Telephone:**

**E-mail:**

**Cell:**

**Fax:**



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



### 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
X

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

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:

Types of emissions include exhaust emissions and dust associated with construction phase activities. Concentration of emissions is predicted to be minimal. The EMPr prescribes mitigation measures to minimise impacts related to dust.

### d) Waste permit

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

NO
X

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
X

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

NO
X

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:

An increase in noise levels is expected during the construction phase due to construction vehicles and machinery. Mitigation measures included in the Environmental Management Programme (EMPr) attached as Appendix G to this Report.

## 13. WATER USE

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

Municipal	
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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:

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

<input type="checkbox"/>	NO
<input checked="" type="checkbox"/>	X

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

### 14. ENERGY EFFICIENCY

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

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

## LAYOUT ALTERNATIVES

There are two layout alternatives for the proposed project. Paragraph 3 will only be repeated. Paragraphs 4-13 below will not be repeated because the information is the same as above for the site alternative.

**3. PHYSICAL SIZE OF THE ACTIVITY**

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

**Alternative:**

- Alternative A1<sup>2</sup> (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Size of the activity:**

26 000 m <sup>2</sup>
26 000 m <sup>2</sup>

or, for linear activities:

**Alternative:**

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

**Length of the activity:**

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b) **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:**

26 000 m <sup>2</sup>
26 000 m <sup>2</sup>

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<sup>2</sup> "Alternative A.." refer to activity, process, technology or other alternatives.

**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.

Please note that this section will just be completed once for the entire site as there is only one site alternative.

Section B Copy No. (e.g. A): N/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  
X

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>	Eastern Cape
<b>District Municipality</b>	Cacadu
<b>Local Municipality</b>	Camdeboo
<b>Ward Number(s)</b>	4
<b>Farm name and number</b>	Erf 1864, Graaf-Reinet
<b>Portion number</b>	Remaining extent
<b>SG Code</b>	C02900020000186400000

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:**

The land is currently vacant and in an urban/built-up area.

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? NO  
X

## SITE ALTERNATIVES

There is only one site alternative for the proposed project; therefore Paragraphs 1-6 below will not be repeated.

**1. GRADIENT OF THE SITE**

Indicate the general gradient of the site.

**Alternative S1:**

Flat <input checked="" type="checkbox"/>	
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**Alternative S2 (if any):**

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**Alternative S3 (if any):**

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**2. LOCATION IN LANDSCAPE**

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

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

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

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

	Alternative S1:	Alternative S2 (if any):	Alternative S3 (if any):
Shallow water table (less than 1.5m deep)	YES <input checked="" type="checkbox"/>		
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			

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

### 5. SURFACE WATER

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

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

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

No evidence of any wetland or watercourses was noted on site or in the adjacent area. Please see Appendix D1.



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### 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:

	Hospital/medical centre	
Medium density residential	School	
		River, stream or wetland
	Major road (4 lanes or more) <sup>N</sup>	
Military or police base/station/compound		
	Sport facilities	

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

The impact expected on the N9 would possibly be an increase in traffic on the road. However, the impact is expected to be low.

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



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



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

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

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Buffer area of the SKA?	<input checked="" type="checkbox"/>	NO X
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If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A.

The site falls within a Critical Biodiversity Area. Refer to Appendix A3.

## LAYOUT ALTERNATIVES

There are two layout alternatives for the proposed project. However, Paragraphs 1-6 will not be repeated because the information is the same as above for the site alternative.

**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  
X

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:

No heritage resources were found within the servitude of the proposed development. See Appendix D3.

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

NO  
X

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

NO  
X

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.

Level of unemployment:

19% Unemployment Rate.

Economic profile of local municipality:

Industry	Camdeboo Local Municipality
Agriculture, forestry and fishing	3%
Mining and quarrying	0%
Manufacturing	9%
Electricity, gas and water	1%
Construction	3%
Wholesale and retail trade, catering and accommodation	20%
Transport, storage and communication	7%
Finance, insurance, real estate and business services	18%

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	Community, social and personal services	10%
	General government	28%
	Total	100%

Level of education:

No Schooling	Some Primary	Completed Primary	Some Secondary	Grade 12/Std 10	Higher	Unspecified	Not Applicable	Total
6%	26%	7%	28%	12%	5%	0%	16%	100%

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

What is the expected capital value of the activity on completion?

R 100 000 000

What is the expected yearly income that will be generated by or as a result of the activity?

R 46 647 431

Will the activity contribute to service infrastructure?

YES

X

Is the activity a public amenity?

YES

X

How many new employment opportunities will be created in the development and construction phase of the activity/ies?

275

What is the expected value of the employment opportunities during the development and construction phase?

R 5 000 000

What percentage of this will accrue to previously disadvantaged individuals?

75%

How many permanent new employment opportunities will be created during the operational phase of the activity?

29

What is the expected current value of the employment opportunities during the first 10 years?

R 50 198 746-07

What percentage of this will accrue to previously disadvantaged individuals?

75% or more

## 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.

Refer to Appendix D4: Biodiversity Information.

## BASIC ASSESSMENT 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)		<b>CBA 1:</b> Areas important for the conservation of biodiversity in Gauteng.

The site falls within a CBA. Refer to Appendix D2: Ecological Survey.

- 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	5%	Very few indigenous species were recorded on site.
Near Natural (includes areas with low to moderate level of alien invasive plants)	5%	Site was severely degraded.
Degraded (includes areas heavily invaded by alien plants)	85%	Due to the levels of disturbances such as anthropogenic disturbance, it is unsurprising that most of the plant species observed are weeds or alien invasive plant species.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	5%	The site is slightly transformed from roads and urban impacts.

- 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.

Vegetation Type	Ecosystems Status
Camdeboo Escarpment Thicket	Vulnerable

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Terrestrial Ecosystems		Aquatic Ecosystems					
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)		Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)		Estuary		Coastline	
	Least Threatened						

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

The Camdebo Escarpment Thicket is found in Eastern Cape Province. It occurs in south-sloping face of the Great Escarpment, forming an arc from Bruintjieshoogte in the east via the Coetzeeberg Mountains and Graaff-Reinet (including Spandaukop and the isolated Rooiberg) to Kamdebooberg and Aberdeen in the west (Mucina and Rutherford, 2006).

The conservation status of this vegetation type is classified as Least threatened with a conservation target of 19%. Unfortunately, only about 5% of this vegetation type is formally protected in the Karoo Natute Reserve and a further 15% is conserved in private conservation areas such as Samara Private Game Reserve, Asanta Sana Game Reserve, Rupert Game Farm, Buchanon Game Farm, Hoeksfontein Game Farm and Glen Harry Game Reserve. Camdebo Escarpment Thicket has been transformed by only about 1%, by means of cultivation, but this vegetation type has been subjected to degradation through grazing by domestic goats in many places (Mucina and Rutherford, 2006).

## SECTION C: PUBLIC PARTICIPATION

### 1. ADVERTISEMENT AND NOTICE

Publication name	Graaff-Reinet Advertiser	
Date published	04 October 2013	
Site notice position	<b>Latitude</b>	<b>Longitude</b>
	32°15'53"S	24°32'10"E
	32°15'55"S	24°32'05"E
	32°15'56"S	24°32'01"E
Date placed	02 October 2013	

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

Please refer to Appendix E1(i) for the proof of advertisement. Please refer to Appendix E1(ii) for the proof of site notices.

### 2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 54(2)(e) and 54(7) of GN R.543.

## BASIC ASSESSMENT REPORT

Key stakeholders (other than organs of state) identified in terms of Regulation 54(2)(b) of GN R.543:

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)
Sherlie Madolo	Nederduitse Gereformeerde Kerk.– Graaff-Reinet	(049) 892 2422
C. Potgieter (Lieutenant Colonel)	Graaff-Reinet Police Station	(049) 807 1123

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.

Please refer to Appendix E2(i) for I&AP (Key Stakeholders) Notification, Appendix E2(ii) for Landowner Notification, and Appendix E2(iii) for Adjacent Property Notification.

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

Summary of main issues raised by I&APs	Summary of response from EAP

Any issues raised by interested and affected parties (I&APs) are incorporated in a Comments and Responses Report which is attached as Appendix E3.

### 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.

All comments received to date are incorporated in a Comments and Responses Report which is attached as Appendix E3.

### 5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/ Organ of State	Contact person (Title, Name and Surname)	Tel No	Fax No	e-mail	Physical address
DEA	Toinette Van der Merwe	(012) 395 1782	-	Tvandermerwe@environment.gov.za	Department of Environmental Affairs Fedsure Forum Building (cnr Pretorius



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					and Van der Walt Streets), 4th Floor South Tower, 315 Pretorius Street, Pretoria, 0002
DEDEA	Mr. Leon Els	(041) 508 5808/00	(041) 508 5867	leon.els@deaet.ecape.gov.za	Cnr Belmont Terrace & Castle Hill, Central Port Elizabeth
Regional DWA office	Landile Jack	(043) 701 0291	None.	jackL@dwa.gov.za	Ocean Terrace Building, Moore Street, Quigney, East London
SAHRA	Ms Mmabatho Ramagoshi	(021) 462 4502	(021) 462 4509	info@sahra.org.za	111 Harrington Street, Cape Town
Cacadu District Municipality	Aretha Plata	(041) 508 7139	None	None	32 Govan Mbeki Avenue (Standard Bank building), Eastern Cape
Camdeboo Local Municipality	Mr Monde Langbooi	(049) 807 5850	(049) 892 2166	danielse@camdeboo.gov.za	12 Church Square, Graaff-Reinet
Camdeboo Local Municipality	Clr Andrew Desmond Gradwell	(049) 807 5700	(049) 892 2166	None	12 Church Square, Graaff-Reinet

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

The Proof of Delivery to Authorities of the Draft BAR will be available in the Final BAR.

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.

Please refer to Appendix E5.

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

No public meetings were requested therefore no minutes are available. Please refer to the Receipt of Acknowledgement in Appendix E6.

## SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

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

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

**Please note: The Significance value of the impacts provided below represents the overall impact score (Please refer to Impact Assessment in Appendix F which describes this fully). The Significance in the table below refers to the overall impact rating BEFORE the proposed mitigations. Please refer to Appendix F for the overall impact scores AFTER the proposed mitigations.**

#### Site Alternative:

Activity	Impact summary	Significance	Proposed mitigation
<b>Alternative 1 (preferred alternative)</b>			
<b>PRE-CONSTRUCTUION PHASE</b>			
Flora	<b>Direct impacts:</b> Loss of flora	Medium	Search and rescue: A qualified and / or appropriately experienced Botanist or an experienced person who knows specific vegetation types well should mark any Red data species recorded ( <i>Drimia altissima</i> ), species of conservation importance ( <i>Cotyledon papillaris</i> ) and other medicinal plants. A permit for either removing or transplanting these plants will be required from ECPTA before any construction commences.  Site Preparation : <ul style="list-style-type: none"> <li>• During site preparation, topsoil and subsoil are stripped separately from each other and must be stored separately from spoil</li> </ul>

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<p>material for use in the rehabilitation phase. It should be protected from wind and rain, as well as contamination from diesel, concrete or wastewater.</p> <ul style="list-style-type: none"> <li>Records of all environmental incidents must be maintained and a copy of these records must be made available to authorities on request throughout the project execution.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
Fauna	<b>Direct impacts:</b> Loss of fauna	Medium	<p>Search and Rescue</p> <ul style="list-style-type: none"> <li>A qualified and / or appropriately experienced Zoologist or an experienced person who knows the animals in the region well will identify any possible Red Data fauna on site and the necessary permits to relocate fauna will be obtained if avoidance is not possible.</li> <li>Training of construction workers to recognise threatened animal species will reduce the probability of fauna being harmed unnecessarily.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
	<b>Direct impacts:</b> Loss of fauna	Medium	<p>Site Preparation :</p> <ul style="list-style-type: none"> <li>During site preparation special care must be taken during the clearing of the works area to minimise damage or disturbance of possibly roosting and nesting sites.</li> <li>Before construction commences, barricading</li> </ul>

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			measures to be utilised should not restrict the movement of the fauna in the area.
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
CONSTRUCTION PHASE			
Soil	<b>Direct impacts:</b> <ul style="list-style-type: none"> <li>• Possible erosion on steep slopes and loss of top soil. Compaction of top soil through construction activities.</li> <li>• An increased sediment load within the watercourses may impact on the water quality and habitat quality of the watercourses.</li> </ul>	Medium	<ul style="list-style-type: none"> <li>• Stabilisation of cleared areas to prevent and control erosion will be actively managed. The method chosen (e.g. watering, planting, retaining structures, commercial anti-erosion compounds) will be selected according to the site-specific conditions. Construction employees to be restricted to approved access roads and walk ways.</li> <li>• Adequate measures to be implemented for soil erosion and soil contamination as a result of hydrocarbon spills which in turn will impact vegetation on site.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
Flora	<b>Direct impacts:</b> Soil contamination, vegetation loss and vegetation disturbance due to fuel and chemical spills.	Medium	<ul style="list-style-type: none"> <li>• Employ on site personnel responsible for preventing and controlling potential soil pollution through fuel and oil leaks and spills.</li> <li>• Make sure construction vehicles are maintained and serviced to prevent oil and fuel leaks. Emergency on-site maintenance should be done over appropriate drip trays and all oil or fuel must be disposed of according to waste regulations. Drip-trays must be placed under vehicles and equipment when not in use.</li> </ul>

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
	<b>Direct impacts:</b> Vegetation and habitat disturbance due to the accidental introduction of alien species.	Medium	<ul style="list-style-type: none"> <li>Promote awareness of all personnel.</li> <li>After construction programme, monitoring and control of alien weeds and invaders through hand removal; slashing (annuals) or chemical control (perennials). Chemical control may only be done upon approval from the Environmental Control Officer.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
	<b>Direct impacts:</b> Vegetation and habitat disturbance due to pollution and littering during construction phase.	Low	<ul style="list-style-type: none"> <li>Employ personnel on site responsible for preventing and controlling of litter. Promote housekeeping with daily clean-ups on site.</li> <li>Before construction commences, construction workers should be educated with regards to littering, <i>ad hoc</i> veld fires, and dumping.</li> <li>No fires are allowed on site.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
	<b>Direct impacts:</b> Damage to plant life outside of the proposed development area	Low	Construction activities should be restricted to the footprint area. All workers must be trained before construction commences.
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
Fauna	<b>Direct impacts:</b> Disturbance to animals	Low	<ul style="list-style-type: none"> <li>Animals residing within the designated area shall not be unnecessarily disturbed.</li> <li>Before construction starts,</li> </ul>

## BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<p>construction workers must be educated with regards to littering and poaching.</p> <ul style="list-style-type: none"> <li>The Contractor and his/her employees shall not bring any domestic animals onto site.</li> <li>Toolbox talks should be provided to contractors regarding disturbance to animals. Particular emphasis should be placed on talks regarding snakes.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
	<b>Direct impacts:</b> Allow for safe animal passage through and specifically out of the construction site.	Low	Construction areas must be demarcated but should allow for the migration of small faunal species out of the construction zone. Fencing types must be selected for minimal disturbance to animal movement corridors (e.g. palisade fencing is preferable to diamond-mesh fencing).
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
Air	<b>Direct impacts:</b> <ul style="list-style-type: none"> <li>Dust from movement of construction vehicles and machinery as well as bare surface areas.</li> <li>Vehicles and construction machinery's emissions.</li> <li>Smoke from uncontrolled fires.</li> </ul>	Low	<ul style="list-style-type: none"> <li>Dust abatement measures to be implemented for construction activities.</li> <li>Vehicles not to travel faster than 30km on servitude road.</li> <li>Bare areas (i.e. siphon sections) must be watered to minimise dust.</li> <li>No uncontrolled fires to be allowed on site.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
Noise	<b>Direct impacts:</b> Noise associated with	Low	<ul style="list-style-type: none"> <li>The provisions of SANS 10103 will apply to all areas</li> </ul>

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<p>construction activities (e.g. vehicle movement, demolition work, generators).</p>		<p>within audible distance of residents.</p> <ul style="list-style-type: none"> <li>• Construction activities generating output levels of 55 dB or more will be confined to normal working hours.</li> <li>• Construction work to be restricted to approved working hours.</li> <li>• Construction machinery (especially silencers) to be maintained and kept in working condition.</li> <li>• No loud music to be played on servitude or at construction camp site.</li> </ul>
	<p><b>Indirect impacts:</b> None.</p>	<p>None.</p>	<p>None.</p>
	<p><b>Cumulative impacts:</b> None.</p>	<p>None.</p>	<p>None.</p>
<p>Aesthetics</p>	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Visual alterations to the area.</li> <li>• Visual impact associated with construction camp/s</li> <li>• Adverse impacts on the landscape character and sense of place of the affected area.</li> </ul>	<p>Low</p>	<ul style="list-style-type: none"> <li>• Construction camp to be positioned so as to minimize its visual impacts.</li> <li>• Sound housekeeping practices to be enforced.</li> <li>• Damage to the natural environment should be minimised.</li> <li>• Vegetation should be cut only if absolutely necessary.</li> <li>• The clearing of all sites should be kept to a minimum and surrounding vegetation should as far as possible be left intact.</li> </ul>
	<p><b>Indirect impacts:</b> None.</p>	<p>None.</p>	<p>None.</p>
	<p><b>Cumulative impacts:</b> None.</p>	<p>None.</p>	<p>None.</p>
<p>Safety and Security</p>	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Development of FET College</li> <li>• Uncontrolled access to servitude.</li> <li>• Construction employees getting</li> </ul>	<p>Medium</p>	<ul style="list-style-type: none"> <li>• Construction methodology to make provision for development of FET College.</li> <li>• Compliance with Occupational Health and Safety Act (Act No. 85 of 1993).</li> <li>• Contractor to provide an</li> </ul>

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	injured.		<p>Occupational Health and Safety Management Plan to the Construction Manager for approval prior to the commencement of works in terms of the Construction Regulations (2003).</p> <ul style="list-style-type: none"> <li>• Proper supervision of employees at all times. Employees to be clearly identifiable.</li> <li>• Employees to remain within the servitude and no loitering to be allowed.</li> <li>• Access into and out of the servitude must only be via existing access roads from local public roads.</li> <li>• Contractor to prepare and submit, for approval, a rescue procedure for employees in the case of an injury.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
Waste Management	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Use of veld/ riparian areas for ablution purposes.</li> <li>• Land, air and water pollution through poor waste management practises.</li> </ul>	Medium	<ul style="list-style-type: none"> <li>• Sufficient ablution facilities to be provided at the Construction Camp and along construction servitude. Ablution facilities to be maintained.</li> <li>• No ablution facilities to be positioned within riparian areas.</li> <li>• Suitable litter receptacles to be positioned strategically across the site at all working areas.</li> <li>• Contractor to submit waste management plan prior to commencement. Such plan to be approved by ECO and enforced by contractor.</li> <li>• Waste must be separated at source (e.g. containers for glass, paper, metals, plastics, organic waste and hazardous wastes).</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b>	None.	None.



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Activity	Impact summary	Significance	Proposed mitigation
	None.		
Socio-Economic Aspects	<b>Direct impacts:</b> Education Provision	N/A	The provision of education is a positive impact therefore no mitigation measures are required.
	<b>Indirect impacts:</b> Job Creation	N/A	Employment creation is a positive impact therefore no mitigation measures are required.
	<b>Cumulative impacts:</b> None.	None.	None.
Heritage Resources	<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>• Damage to archaeological sites.</li> <li>• Damage to graves.</li> </ul>	Medium	<ul style="list-style-type: none"> <li>• Should remains and/or artefacts be discovered on the site during earthworks, all work will cease in the area affected and the Contractor will immediately inform the Construction Manager.</li> <li>• Should any heritage resources be exposed during excavation or be found on site, the relevant heritage resource agency (SAHRA) must be informed and a registered heritage specialist must be called to site for inspection.</li> <li>• No person may, without a permit issued by SAHRA or a provincial heritage resources authority – <ul style="list-style-type: none"> <li>○ Destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;</li> <li>○ Destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery</li> </ul> </li> </ul>

## BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<ul style="list-style-type: none"> <li>○ administered by a local authority or;</li> <li>○ Bring onto or use at a burial ground or grave referred to in above any excavation equipment, or any equipment which assists in the detection or recovery of metals.</li> </ul>
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
OPERATION PHASE			
Flora	<b>Direct impacts:</b> The proposed development may affect biodiversity through the encroachment of exotic vegetation following soil disturbance, in addition the maintenance of the area would disturb naturalised species within the area.	Low	Encroachment of alien vegetation should be monitored regularly and controlled; the area must be kept clear of all invader plants as per the Conservation of Agricultural Resources Act, 1983 (Act No 43 of 1983). Rehabilitation measures must be employed until such a time as indigenous species are established.
	<b>Indirect impacts:</b> None.	None.	None.
	<b>Cumulative impacts:</b> None.	None.	None.
DECOMMISSIONING PHASE			
Please note that no decommissioning and closure phase is expected to take place as the college is a permanent feature. However, if decommissioning will be undertaken a separate Basic Assessment Report inclusive of a site decommissioning Environmental Management Programme should be developed and implemented.			
<b>No-go option</b>			
The 'No-Go' alternative means that the proposed development will not take place and the area will retain its status quo. This will result in lack of infrastructure to provide education and skills, loss of job opportunities and the economy will not benefit from procurement.			
<b>Alternative 2</b>			
<b>Alternative 3</b>			

**Layout Alternatives:**

Environmental Impacts identified for the development of Graaf-Reinet layout A or B will be identical and include: soil; flora; fauna; air; noise; aesthetics; safety and security; waste management; socio-economic aspects; and Heritage resources. Therefore there is no environmental impact difference between these two alternatives.

The impacts identified above for Site Alternatives can be applied for these layout alternatives. Adequate implementation of mitigation measures are provided in the Environmental Management Programme (please refer to Appendix G attached).

A complete impact assessment in terms of Regulation 22(2)(i) of GN R.543 must be included as Appendix F.

Please see 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.

**Site Alternative:**

**Alternative A (preferred alternative)**

Most of the potential impacts on the environment will take place during the construction phase. As a result, with the proposed mitigations enforced, disturbance to the area can be reduced.

Two positive impacts have been identified for this project. The first positive impact is provision of education to the local communities. The second positive indirect impact is the socio-economic effects resulting from job creation.

All negative impacts identified for the construction phase of the proposed development can be minimized provided that the proposed mitigation measures provided in this Basic Assessment Report, the Environmental Management Programme (please refer to Appendix G attached), the Ecological Study and the Wetland Assessment and Delineation (please refer to Appendix D attached) are adequately implemented during the construction and operation phases of the project.

The terrestrial vegetation will however be negatively impacted on although such impacts are manageable and restricted to the construction phase. The EMP must be strictly enforced for the project in order to mitigate the identified possible impacts associated to it.

The environmental consequences associated with the project's potential impacts are not considered significant if appropriately managed during the construction and operation phases of the project.

**Alternative B**

[REDACTED]

**Alternative C**

[REDACTED]

**No-go alternative (compulsory)**

The 'No-Go' alternative means that the proposed development will not take place and the area will retain its status quo. This will result in lack of infrastructure to provide education and skills, loss of job opportunities and the economy will not benefit from procurement.

**Layout Alternatives:**

**Alternative A (preferred alternative)**

The proposed FET College in Layout Option A is the preferred option due to the following reasons:

- Option A will develop a smaller area of land thus decrease potential impacts on the environment thus less land will be transformed and developed.

**Alternative B**

Layout Option B is not preferred due to the following reasons:

- Option B will develop a larger area of land thus increase potential impacts on the environment thus more land will be transformed and developed.

**Alternative C**

[REDACTED]

**No-go alternative (compulsory)**

The 'No-Go' alternative means that the proposed development will not take place and the area will retain its status quo. This will result in lack of infrastructure to provide education and skills, loss of job opportunities and the economy will not benefit from procurement.

**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 X	
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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).

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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.

Based on the information contained in this report, and taking into account the outcome of the impact assessment, opinions and recommendations included in the specialist studies as well as all supporting documentation, it is the recommendation of the practitioner that Environmental Authorisation be granted by the Department of Environmental Affairs (DEA).

The following pertinent conditions for inclusion in the Environmental Authorisation are recommended:

- Appointment of an Environmental Control Officer to monitor compliance with the Environmental Authorization and the approved Environmental Management Programme;
- All mitigation measures provided in the Ecological Assessment (please refer to Appendix D attached) to be adhered to;
- Construction camp to be established in an already disturbed area;
- Vegetation removal to be kept to a minimum;
- 'No go' area to be demarcated;
- To manage the handling, use and storage of hazardous substances on site (i.e. fuel and oil);
- Rehabilitation to be undertaken post construction where required;
- Only indigenous vegetation to be utilized during rehabilitation;
- Minimise noise during construction; and
- Preventative measures avoiding contaminated runoff from the construction area, must be implemented throughout the construction phase.

Is an EMPr attached?

YES X	
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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.

Please refer to Appendix H for EAP details.

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

Please refer to Appendix I for Specialist Declarations.

## BASIC ASSESSMENT REPORT

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

Please refer to the Municipality Letter in Appendix J.

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NAME OF EAP

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SIGNATURE OF EAP

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DATE

## SECTION F: APPENDIXES

The following appendixes must be attached:

### Appendix A: Maps

*Appendix 1: Locality Map*

*Appendix 2: Site or Route Plan*

*Appendix 3: Sensitivity Map*

### Appendix B: Photographs

### Appendix C: Facility illustration(s)

### Appendix D: Specialist reports (including terms of reference)

*Appendix 1: Wetland Investigation Letter*

*Appendix 2: Ecological Survey*

*Appendix 3: Heritage Letter for Exemption*

*Appendix 4: Biodiversity information*

### Appendix E: Public Participation

*Appendix 1 – Proof of Notification*

*Appendix i – Proof of newspaper advertisement*

*Appendix ii – Proof of Site Notice*

*Appendix 2 – Proof of BID Notification*

*Appendix i – Proof of I&AP (Key Stakeholders) Notification*

*Appendix ii – Proof of Landowner Notification*

*Appendix iii – Proof of Adjacent Property Notification*

*Appendix 3 – Comments and Responses Report*

*Appendix 4 – Proof of I&AP (Authorities or Organs of State) Notification*

*Appendix 5 – List of I&APs*

*Appendix 6 - Correspondence and Minutes*

### Appendix F: Impact Assessment

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

### Appendix H: Details of EAP and expertise

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

### Appendix J: Additional Information

*Appendix 1 – Municipality Letter*