

Draft Basic Assessment Report

for

SEFALA LOGISTICS FEEDLOT

Prepared by:

Bucandi Environmental Solutions



Project Manager: H len Prinsloo (*Pr.Sci.Nat.*) Reg. No. 400108/11 (SACNASP)

January 2021

Table of contents

| | |
|--|----|
| Section A: Details of the environmental assessment practitioner and specialist | 3 |
| 1. Name and contact details of environmental assessment practitioner (EAP) | 3 |
| 2. Names and expertise of representatives of the EAP | 3 |
| 3. Names and expertise of specialists | 3 |
| Section B: Activity information | 3 |
| 1. Project title | 3 |
| 2. Project description | 4 |
| 3. Activity description | 4 |
| 4. Feasible and reasonable alternatives | 4 |
| a) Activity alternatives | 5 |
| b) No-go alternative | 5 |
| 5. Activity position | 5 |
| 6. Physical size of the activity | 6 |
| 7. Site Access | 6 |
| a) Activity alternative 1 | 6 |
| b) Activity alternative 2 | 7 |
| c) No-go alternative | 7 |
| 8. Site or route plan | 7 |
| 9. Site photographs | 8 |
| 10. Facility illustration | 8 |
| 11. Activity motivation | 8 |
| a) Socio-economic value of the activity | 8 |
| b) Need and desirability of the activity | 9 |
| 12. Applicable legislation, policies and/or guidelines | 10 |
| 13. Waste, effluent, emission and noise management | 12 |
| a) Solid waste management | 12 |
| b) Liquid effluent | 14 |
| c) Emissions into the atmosphere | 15 |
| d) Generation of noise | 15 |
| 14. Water use | 16 |
| 15. Energy efficiency | 17 |
| Section C: Site/ area/ property description | 18 |
| 1. Gradient of site | 18 |
| 2. Location in landscape | 18 |
| 3. Groundwater, soil and geological stability of the site | 18 |
| 4. Groundcover | 19 |
| 5. Land use character of surrounding area | 20 |
| 6. Cultural/ historical features | 21 |
| Section D: public participation | 23 |
| 1. Advertisement | 23 |
| 2. Content of advertisements and notices | 24 |
| 3. Placement of advertisements and notices | 24 |
| 4. Determination of appropriate process | 24 |
| 5. Comments and response report | 24 |
| 6. Participation by district, local and traditional authorities | 25 |
| 7. Consultation with other stakeholders | 25 |
| Section E: Impact Assessment | 26 |
| 1. Issues raised by interested and affected parties | 26 |

| | |
|--|----|
| 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..... | 26 |
| 3. Proposed monitoring and auditing..... | 30 |
| 4. Environmental impact statement..... | 31 |
| Section F: Recommendation of EAP | 34 |
| Section G: Appendices..... | 35 |



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.

(For official use only)

Provincial Reference Number:
NEAS Ref Number:
Date Received:

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Basic assessment report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 and is meant to streamline applications.
2. This report format is current as of **December 2014**. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
3. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
4. Where applicable **tick** the boxes that are applicable in the report.
5. The use of "not applicable" in the report must be done with circumspection. An incomplete report or that does not meet the requirements in terms of Regulation 19 of the NEMA EIA Regulations, 2014, will be rejected to be revised and be resubmitted.
6. The report must be handed in at offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed reports will be accepted.
8. The signature of the Environmental Assessment Practitioner (EAP) on the report must be an original.
9. The report must be compiled by an independent EAP.
10. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
11. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
12. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

Basic Assessment Report

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

DEPARTMENTAL REFERENCE NUMBER(S)

| | |
|---|--|
| File reference number (EIA): | |
| File reference number (Waste Management Licence): | |

SECTION A: DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER AND SPECIALISTS

1. NAME AND CONTACT DETAILS OF ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

Name and contact details of the EAP who prepared this report:

| | | | |
|-----------------------|---------------------------------|-------|--------------|
| Business name of EAP: | Bucandi Environmental Solutions | | |
| Physical address: | 23 Burger Street, Viljoenskroon | | |
| Postal address: | P. O. Box 317, Viljoenskroon | | |
| Postal code: | 9520 | Cell: | 076 682 4369 |
| Telephone: | | Fax: | 086 551 1894 |
| E-mail: | helen@bucandi.co.za | | |

2. NAMES AND EXPERTISE OF REPRESENTATIVES OF THE EAP

Names and details of the expertise of each representative of the EAP involved in the preparation of this report:

| Name of representative of the EAP | Education qualifications | Professional affiliations | Experience at environmental assessments (yrs) |
|-----------------------------------|---------------------------------|--|---|
| Helen Prinsloo | P.h.D (Conservation Management) | South African Council for Natural Scientific Professionals Reg. No. 400108/11 Pr.Sci.Nat | 15 |

3. NAMES AND EXPERTISE OF SPECIALISTS

Names and details of the expertise of each specialist that has contributed to this report:

| Name of specialist | Education qualifications | Field of expertise | Section/ s contributed to in this basic assessment report | Title of specialist report/ s as attached in Appendix D |
|--------------------|--------------------------|--------------------|---|---|
| | | | | |

SECTION B: ACTIVITY INFORMATION

1. PROJECT TITLE

Describe the project title as provided on the application form for environmental authorization:

Rietvalei 195 construction of a cattle feedlot with capacity for 20 000 cattle.

2. PROJECT DESCRIPTION

Provide a detailed description of the project:

Sefala Logistics is proposing the construction of a cattle feedlot with capacity for 20 000 cattle on Portion 18 of the farm Rietvalei 195 IR situated in the Delmas District within Victor Khanye Local Municipality. The need for a Basic Assessment is triggered by Listing 1; (ACTIVITY NO. 4) The development and related operation of facilities or infrastructure for the concentration of animals for the purpose of commercial production(i) 20 square meters per large stock unit and more than 500 units per facility.

The project will entail the following:

- Earthworks and clearing of vegetation on the site for erection of infrastructure (pens, hallways, road and parking lot).
- Phase one will see the construction of 80 camps (24m x 60m), each with a capacity to hold 125 head of cattle. The second phase will see an additional phase of 80 pens being constructed.
- All camps will have feeding and water troughs.
- A dirt road will run between the four rows of camps, the gate and the parking lot.

The site will be enclosed with a fence that uses steel poles as posts and steel cable. These cables will be secured using I-bolts and steel clamps. One entrance gate will be constructed to give access to the site.

3. ACTIVITY DESCRIPTION

Describe each listed activity in Listing Notice 1 (GNR 544, 18 June 2010), Listing Notice 3 (GNR 546, 18 June 2010) or Category A of GN 718, 3 July 2009 (Waste Management Activities) which is being applied for as per the project description:

Listing Notice 1 (GNR R327, 4 December 2014 as amended April 2017), (ACTIVITY NO. 4) The development and related operation of facilities or infrastructure for the concentration of animals for the purpose of commercial production(i) 20 square meters per large stock unit and more than 500 units per facility.

4. 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 report. 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

Basic Assessment Report

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.

a) Activity alternatives

| Alternatives | Description |
|--|---|
| Alternative 1 (preferred or only alternative) | Phase one will see the construction of 80 camps (24m x 60m), each with a capacity to hold 125 head of cattle. The second phase will see an additional phase of 80 pens being constructed. Water rights exist on current property. An existing Eskom point is located within 100m of the site with an existing power line running to the existing buildings. One feeding and water troughs will be constructed inside each camp. The site will be enclosed with a fence that uses steel poles as posts and steel cable. These cables will be secured using l-bolts and steel clamps. One entrance gate will be constructed to give access to the site. |
| Alternative 2 | |

b) No-go alternative

If the proposed activity does not go ahead, the site will be used for agriculture

Sections B 5 – 15 below should be completed for each alternative.

5. 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. List alternative sites were applicable.

| Alternative: | Latitude (S): | | | Longitude (E): | | |
|--|---------------|-----|--------|----------------|-----|-------|
| Alternative S1 ¹ (preferred or only site alternative) | 26° | 03' | 02.30" | 28° | 43' | 11.4" |
| Alternative S2 (if any) | 0 | ′ | ″ | 0 | ′ | ″ |
| Alternative S3 (if any) | 0 | ′ | ″ | 0 | ′ | ″ |

In the case of linear activities:

| Alternative: | Latitude (S): | | | Longitude (E): | | |
|--|---------------|---|---|----------------|---|---|
| Alternative S1 (preferred or only route alternative) | | | | | | |
| • Starting point of the activity | 0 | ′ | ″ | 0 | ′ | ″ |
| • Middle point of the activity | 0 | ′ | ″ | 0 | ′ | ″ |
| • End point of the activity | 0 | ′ | ″ | 0 | ′ | ″ |
| Alternative S2 (if any) | | | | | | |
| • Starting point of the activity | 0 | ′ | ″ | 0 | ′ | ″ |
| • Middle point of the activity | 0 | ′ | ″ | 0 | ′ | ″ |

¹ "Alternative S.." refer to site alternatives.

Basic Assessment Report

- End point of the activity

Alternative S3 (if any)

- Starting point of the activity

- Middle point of the activity

- End point of the activity

| | | | | | |
|---|---|---|---|---|---|
| 0 | ‘ | “ | 0 | ‘ | “ |
| | | “ | | | “ |
| 0 | ‘ | “ | 0 | ‘ | “ |
| 0 | ‘ | “ | 0 | ‘ | “ |
| 0 | ‘ | “ | 0 | ‘ | “ |

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

6. PHYSICAL SIZE OF THE ACTIVITY

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

Alternative:

Alternative A1² (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the activity:

| |
|-------------------------|
| 76 700.99m ² |
| m ² |
| m ² |

Length of the activity:

| |
|---|
| m |
| m |
| m |

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:

| |
|--------------------------|
| 364 159.33m ² |
| m ² |
| m ² |

7. SITE ACCESS

a) Activity alternative 1

Does ready access to the site exist?

| | |
|-----|----|
| YES | NO |
| X | |
| | m |

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

Describe the type of access road planned:

The R42 between Delmas (south) and Bronkhorstspuit (north) runs within 5km of the site with a farm road providing access to the site.

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.

² "Alternative A.." refer to activity, process, technology or other alternatives.

Basic Assessment Report

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.

b) Activity alternative 2

Does ready access to the site exist?

| | |
|-----|----|
| YES | NO |
| X | |

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

| | |
|--|---|
| | m |
|--|---|

Describe the type of access road planned:

The R42 between Delmas (south) and Bronkhorstspuit (north) runs within 5km of the site with a farm road providing access to the site.

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.

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.

c) No-go alternative

Does ready access to the site exist?

| | |
|-----|----|
| YES | NO |
| X | |

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

| | |
|--|---|
| | m |
|--|---|

Describe the type of access road planned:

The R42 between Delmas (south) and Bronkhorstspuit (north) runs within 5km of the site with a farm road providing access to the site.

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.

8. 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 report.

The site or route plans must indicate the following:

- 1.1. the scale of the plan which must be at least a scale of 1:500;
- 1.2. the property boundaries and numbers/ erf/ farm numbers of all adjoining properties of the site;
- 1.3. the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 1.4. the exact position of each element of the application as well as any other structures on the site;
- 1.5. 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;
- 1.6. walls and fencing including details of the height and construction material;
- 1.7. servitudes indicating the purpose of the servitude;

Basic Assessment Report

- 1.8. sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - rivers, streams, drainage lines or wetlands;
 - the 1:100 year flood line (where available or where it is required by DWA);
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation including protected plant species (even if it is degraded or infested with alien species);
- 1.9. 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
- 1.10. the positions from where photographs of the site were taken.

9. SITE PHOTOGRAPHS

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

10. FACILITY ILLUSTRATION

A detailed illustration of the facility must be provided at a scale of 1:200 and attached to this report as Appendix C. The illustrations must be to scale and must represent a realistic image of the planned activity/ies.

11. ACTIVITY MOTIVATION

a) Socio-economic value of the activity

i. Activity alternative 1

| | | |
|---|-----------------|----|
| What is the expected capital value of the activity on completion? | R 40 000 000.00 | |
| What is the expected yearly income that will be generated by or as a result of the activity? | R180 000 000.00 | |
| Will the activity contribute to service infrastructure? | YES X | NO |
| Is the activity a public amenity? | YES X | NO |
| How many new employment opportunities will be created in the development phase of the activity? | 50 | |
| What is the expected value of the employment opportunities during the development phase? | R 525 000.00 | |
| What percentage of this will accrue to previously disadvantaged individuals? | 95% | |
| How many permanent new employment opportunities will be created during the operational phase of the activity? | 20 | |
| What is the expected current value of the employment opportunities during the first 10 years? | R 7 250 000.00 | |
| What percentage of this will accrue to previously disadvantaged individuals? | 90% | |

Basic Assessment Report

What percentage of this will accrue to previously disadvantaged individuals?

90%

ii. No-go alternative

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

R0

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

R0

Will the activity contribute to service infrastructure?

YES

NO

X

Is the activity a public amenity?

YES

NO

X

How many new employment opportunities will be created in the development phase of the activity?

0

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

R0

What percentage of this will accrue to previously disadvantaged individuals?

0%

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

0

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

R0

What percentage of this will accrue to previously disadvantaged individuals?

0%

b) Need and desirability of the activity

i. Activity alternative 1

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

Internationally production of cattle has increased significantly over the past few years in line with increased consumer demands for production of cattle and expectations are that consumer demand will continue to increase. Due to overcrowding of present facilities, lack of additional facilities and therefore the potential for increased biological risk, suppliers have embarked on a process of establishing new facilities in order to overcome these problems and ensure the long term sustainability and viability of the industry

Indicate any benefits that the activity will have for society in general:

The socio-economic value of the project will indirectly have a positive impact on the immediate area as well as cater for the increasing demand for cattle products in Mpumalanga and nationally. At least 50 temporary employment opportunities will be created during the development and construction phase. At least 20 people will be permanently employed during the operational phase of the activity. Contractors are employed during the construction phase and additional employment opportunities are therefore created.

Indicate any benefits that the activity will have for the local communities where the activity will be located:

The socio-economic value of the project will indirectly have a positive impact on the immediate area as well as cater for the increasing demand for cattle products in Mpumalanga and nationally. At least 50 temporary employment opportunities will be created during the development and construction phase. At least 20 people will be permanently employed during the operational phase of the activity. Contractors are employed during the construction phase and additional employment opportunities are therefore created.

ii. **No-go activity**

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

Agriculture contributes to local economy and national food security.

Indicate any benefits that the activity will have for society in general:

Agriculture contributes to local economy and national food security.

Indicate any benefits that the activity will have for the local communities where the activity will be located:

None since the existing workforce will be used.

12. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are relevant to the application as contemplated in the EIA regulations, if applicable:

i. **Activity alternative 1**

| Title of legislation, policy or guideline | Applicability to the project | Administering authority | Date |
|--|---|---|------|
| National Environmental Management Act, Act No. 107 of 1998. | Sefala Logistics is proposing the construction of a cattle feedlot with capacity for 20 000 cattle on Portion 18 of the farm Rietvalei 195 IR situated in the Delmas District within Victor Khanye Local Municipality | Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs | 1998 |
| Listing 1 of regulation 327 promulgated under Chapter 5 of the National Environmental Management Act (NEMA, Act 107 of 1998) in Government Gazette 38282. Listed activity 4(i) | Water use will be registered with the Department of Water Affairs | | 1998 |
| National Water Act, Act No. 36 of 1998. | A copy of the BAR will be sent to the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs | Department of Water Affairs | 1998 |
| Conservation of Agricultural Resources Act, Act No. 43 of 1983 | | Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs | 1983 |

Basic Assessment Report

| | | | |
|--|--|---|------|
| Heritage Act, Act No 25 of 1999. | The site will be investigated to see if any action is necessary in terms of the Heritage Act. Only applicable to facilities containing abattoirs. | South African Heritage Resources Act | 1999 |
| Meat Safety Act, Act 40 of 2000 Poultry Regulations, Reg. 153 published on 24 February 2006 in GN 8402. | Activity does not trigger a Listed Activity | Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs | 2000 |
| National Environmental Management: Waste Act, Act No. 59 of 2008 Listed Activities Reg. 921 published on 29 November 2013 in GN 37083 | The regulations were taken into account during the design of the activity and process in order to adhere to the Act. | Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs | 2008 |
| Occupational Health and Safety Act, Act 85 of 1993 | | | 2016 |
| Noise regulation, 2003 | | | 1993 |
| Environmental regulations for workplaces, 1987 | | | 2003 |
| Facility regulations, 1990 | | | 1987 |
| General Health and Safety Regulations, 1986 | | | 1990 |
| Electrical Installation Regulations, 2009. | | | 1986 |
| Electrical Machinery Regulations, 1988. | | | 2009 |
| Construction Regulations, 2014 | | | 1988 |
| | | | 2014 |

ii. No-go alternative

| | | |
|--|--------------------------|-------|
| Title of legislation, policy or guideline: | Administering authority: | Date: |
| None | N/A | N/A |

13. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT**a) Solid waste management****i. Activity alternative 1**

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

| | |
|-----|----|
| YES | NO |
| √ | |

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

| |
|---------|
| 26.67m3 |
|---------|

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

Waste is expected to be limited to packaging materials (shrink wrap, cardboard) and litter generated by the construction staff. Waste will be recycled as far as possible. Non-recyclable waste will be sorted into different types and disposed of at a suitably licensed waste disposal facility

Where will the construction solid waste be disposed of? (provide details of landfill site)

Construction phase solid waste will be disposed of at the nearest licensed waste disposal site (nearest municipal landfill site). Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed hazardous waste disposal facility (e.g. WasteTech).

Will the activity produce solid waste during its operational phase?

| | |
|-----|----|
| YES | NO |
| √ | |

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

| |
|-------|
| 212m3 |
|-------|

How will the solid waste be disposed of? (provide details of landfill site)

Operational phase solid waste (general) will be disposed of at the nearest licensed waste disposal site (nearest municipal landfill site). Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed hazardous waste disposal facility (e.g. WasteTech).

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

Manure Removal

Approximately 3 330 tons of cattle manure will be produced monthly. The manure is swept into piles on a weekly basis and removed from the camps on a monthly basis. All the manure will be utilised in the crop production as fertilizer and on lands where grazing occurs. The balance will be stockpiled and processed for the sale to farmers and nurseries in the area.

Disposal of Mortalities

Approximately 8 dead cattle will be produced per cycle. The carcasses are removed on a daily basis and is collected by a predator farmer. A letter showing agreement will be included in the FBAR.

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 the further requirements of the application.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

| | |
|-----|----|
| YES | NO |
| | √ |

If yes, contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application.

Is the activity that is being applied for a solid waste handling or treatment facility?

| | |
|-----|----|
| YES | NO |
| | √ |

If yes, contact the Mpumalanga Department Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application

ii. **No-go alternative:**

| | | |
|--|------------------|---------|
| Will the activity produce solid construction waste during the construction/initiation phase? | YES | NO √ |
| If YES, what estimated quantity will be produced per month? | 0 m ³ | |

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

| |
|----------------------------------|
| No solid waste will be produced. |
|----------------------------------|

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

| |
|----------------------------------|
| No solid waste will be produced. |
|----------------------------------|

Will the activity produce solid waste during its operational phase?

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

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

| | | |
|----------------------------------|-----------------|---------|
| | YES | NO √ |
| | 0m ³ | |
| No solid waste will be produced. | | |

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

| |
|----------------------------------|
| No solid waste will be produced. |
|----------------------------------|

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

| |
|----------------------------------|
| No solid waste will be produced. |
|----------------------------------|

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 the further requirements of the application.

| | | |
|--|-----|---------|
| Can any part of the solid waste be classified as hazardous in terms of the relevant legislation? | YES | NO √ |
|--|-----|---------|

If yes, contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

If yes, contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application.

b) Liquid effluent

i. Activity alternative 1

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

| | |
|-----|---------|
| YES | NO ✓ |
|-----|---------|

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

| | |
|----------------|--|
| m ³ | |
|----------------|--|

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

| | |
|-----|---|
| Yes | ✓ |
|-----|---|

If yes, contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

| | |
|-----|---------|
| YES | NO ✓ |
|-----|---------|

If yes, provide the particulars of the facility:

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

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

Rainwater will be diverted around the site to be kept clean. All water hat is used or rainwater that falls within the site will be collected in drainage ditches and directed into two evaporation dams. From there, after a period of settling, the clean water will be pumped into a "clean water dam". This water will be re-used for dust control and for watering of crops on the farm.

ii. No-go alternative:

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

| | |
|-----|------|
| YES | NO ✓ |
|-----|------|

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

| | |
|----------------|--|
| m ³ | |
|----------------|--|

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

| | |
|-----|---------|
| YES | NO ✓ |
|-----|---------|

If yes, contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

| | |
|-----|---------|
| YES | NO ✓ |
|-----|---------|

If YES, provide the particulars of the facility:

| | | | |
|-----------------|-----|-------|-----|
| Facility name: | N/A | | |
| Contact person: | N/A | | |
| Postal address: | N/A | | |
| Postal code: | N/A | | |
| Telephone: | N/A | Cell: | N/A |

E-mail: Fa√:

c) Emissions into the atmosphere

i. Activity alternative 1

Will the activity release emissions into the atmosphere?

| | |
|-----|---|
| YES | √ |
|-----|---|

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

| | |
|-----|----|
| YES | NO |
| | √ |

If yes, contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

| |
|--|
| Dust and methane gas will be generated by the presence of cattle in the feedlot. The applicant is located in a remote area and this should not cause any discomfort to neighbours. |
|--|

ii. No-go alternative:

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

| | |
|-----|----|
| YES | NO |
| | √ |

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

| | |
|-----|----|
| YES | NO |
| | √ |

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

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

| |
|--|
| No emissions will be released by the activity. |
|--|

d) Generation of noise

i. Activity alternative 1

Will the activity generate noise?

| | |
|-----|----|
| YES | NO |
| | √ |

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

| | |
|-----|----|
| YES | 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 noise in terms of type and level:

| |
|--|
| Low levels of noise will be generated by the cattle present. Since there will not be machinery in operation at the site, this noise will be minimal. |
|--|

ii. No-go alternative

Will the activity generate noise?

| | |
|-----|----|
| YES | NO |
| | √ |

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

| | |
|-----|----|
| YES | NO |
| | √ |

Describe the noise in terms of type and level:

| |
|---|
| Low levels of noise will be produced during cultivation of the fields |
|---|

14. WATER USE**i. Activity alternative 1**

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

| | | | | | |
|-----------|-------------|------------------|-------------------------------|-------|------------------------------------|
| municipal | water board | Groundwater X | river, stream, dam or lake | other | the activity will not use water |
|-----------|-------------|------------------|-------------------------------|-------|------------------------------------|

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

419 375
litres

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

| | |
|----------|----|
| YES √ | NO |
|----------|----|

If YES, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this report.

| |
|--|
| The owner of the property is in possession of a General authorisation. |
|--|

ii. No-go alternative:

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

| | | | | | |
|-----------|-------------|-------------|----------------------------------|-------|---|
| Municipal | Water board | Groundwater | River, stream, dam or lake | Other | The activity will not use water X |
|-----------|-------------|-------------|----------------------------------|-------|---|

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:

0 litres

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

| | |
|-----|---------|
| YES | NO √ |
|-----|---------|

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

15. ENERGY EFFICIENCY

i. Activity alternative 1

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

Energy efficient light bulbs will be used throughout.

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

None

ii. No-go alternative

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

None

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

None

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

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

- Subsections 1 - 6 below must be completed for each alternative.

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 |
|------|----------------|------------------|-------------|-----------------|-------------|---------------------|

2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site (**Please cross the appropriate box**).

Alternative S1 (preferred site):

| | | | | | | | | |
|-----------|---------|-----------------------------------|------------------|----------------|------------|----------------------------------|------|---------------|
| Ridgeline | Plateau | Side slope of hill/mountain | Closed valley | Open valley | Plain √ | Undulating plain/low hills | Dune | Sea- front |
|-----------|---------|-----------------------------------|------------------|----------------|------------|----------------------------------|------|---------------|

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Has a specialist been consulted for the completion of this section?

| | |
|-----|---------|
| YES | NO X |
|-----|---------|

If YES, please complete the following:

| | | | |
|-------------------------------------|--|-------|--|
| Name of the specialist: | | | |
| Qualification(s) of the specialist: | | | |
| Postal address: | | | |
| Postal code: | | | |
| Telephone: | | Cell: | |
| E-mail: | | Fax: | |

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?

| | |
|-----|---------|
| YES | NO X |
|-----|---------|

If YES,
specify and
explain:

| |
|--|
| |
|--|

Are there any special or sensitive habitats or other natural features present on any of the alternative sites?

| | |
|-----|---------|
| YES | NO X |
|-----|---------|

If YES,
specify and
explain:

| |
|--|
| |
|--|

Basic Assessment Report

| | | |
|--|-----|---------|
| Are any further specialist studies recommended by the specialist? | YES | NO X |
| If YES, specify: <div style="border: 1px solid black; height: 20px; width: 100%;"></div> | | |
| If YES, is such a report(s) attached in <u>Appendix D</u> ? | YES | NO X |

| | |
|--------------------------------|---|
| Signature of specialist: _____ | Date: <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
|--------------------------------|---|

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

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

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

4. GROUND COVER

| | | |
|---|-----|---------|
| Has a specialist been consulted for the completion of this section? | YES | NO X |
|---|-----|---------|

If YES, please complete the following:

| | |
|-------------------------------------|---|
| Name of the specialist: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Qualification(s) of the specialist: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Postal address: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Postal code: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |

Basic Assessment Report

| | | | |
|---|---|---|---|
| Telephone: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> | Cell: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| E-mail: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> | Fax: | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
| Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites? | | YES | NO |
| If YES, specify and explain: | | <div style="border: 1px solid black; height: 40px; width: 100%;"></div> | |
| Are there any special or sensitive habitats or other natural features present on any of the alternative sites? | | YES | NO |
| If YES, specify and explain: | | <div style="border: 1px solid black; height: 40px; width: 100%;"></div> | |
| Are any further specialist studies recommended by the specialist? | | YES | NO |
| If YES, specify: | | <div style="border: 1px solid black; height: 20px; width: 100%;"></div> | |
| If YES, is such a report(s) attached in <u>Appendix D</u> ? | | YES | NO |

| | |
|--------------------------------|---|
| Signature of specialist: _____ | Date: <div style="border: 1px solid black; height: 20px; width: 100%;"></div> |
|--------------------------------|---|

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

Alternative S1 (preferred site):

| | | | | |
|--|---|--|--|-----------|
| 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.

5. LAND USE CHARACTER OF SURROUNDING AREA

Cross the land uses and/or prominent features that currently occur within a 500m radius of the site and give a description of how this influences the application or may be impacted upon by the application:

Alternative S1 (preferred site):

| Land use character | YES | NO X | Description |
|---------------------------------|-----|------|-------------|
| Natural area | YES | NO X | |
| Low density residential | YES | NO X | |
| Medium density residential | YES | NO X | |
| High density residential | YES | NO X | |
| Informal residential | YES | NO X | |
| Retail commercial & warehousing | YES | NO X | |

Basic Assessment Report

| | | | |
|--|-------|------|---|
| Light industrial | YES | NO X | |
| Medium industrial | YES | NO X | |
| Heavy industrial | YES | NO X | |
| Power station | YES | NO X | |
| Office/consulting room | YES | NO X | |
| Military or police base/station/compound | YES | NO X | |
| Spoil heap or slimes dam | YES | NO X | |
| Quarry, sand or borrow pit | YES | NO X | |
| Dam or reservoir | YES | NO X | |
| Hospital/medical centre | YES | NO X | |
| School/ creche | YES | NO X | |
| Tertiary education facility | YES | NO X | |
| Church | YES | NO X | |
| Old age home | YES | NO X | |
| Sewage treatment plant | YES | NO X | |
| Train station or shunting yard | YES | NO X | |
| Railway line | YES | NO X | |
| Major road (4 lanes or more) | YES | NO X | |
| Airport | YES | NO X | |
| Harbour | YES | NO X | |
| Sport facilities | YES | NO X | |
| Golf course | YES | NO X | |
| Polo fields | YES | NO X | |
| Filling station | YES | NO X | |
| Landfill or waste treatment site | YES | NO X | |
| Plantation | YES | NO X | |
| Agriculture | YES X | NO | The site is surrounded by agricultural fields |
| River, stream or wetland | YES | NO X | |
| Nature conservation area | YES | NO X | |
| Mountain, hill or ridge | YES | NO X | |
| Museum | YES | NO X | |
| Historical building | YES | NO X | |
| Protected Area | YES | NO X | |
| Graveyard | YES | NO X | |
| Archaeological site | YES | NO X | |
| Other land uses (describe) | YES | NO X | |

6. CULTURAL/ HISTORICAL FEATURES

Alternative S1 (preferred site):

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 palaeontological sites, on or within 20m of the site?

| | |
|-----|---------|
| YES | NO ✓ |
|-----|---------|

If YES, contact a specialist recommended by AMAFA to conduct a heritage impact assessment. The heritage impact assessment must be attached as an appendix to this report.

Briefly explain the recommendations of the specialist:

N/A

Basic Assessment Report

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

| | |
|-----|---------|
| YES | NO √ |
| YES | NO √ |

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

If YES, please submit the necessary application to AMAFA and attach proof thereof to this report.

SECTION D: 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 competent authority) 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 local and district municipality which has jurisdiction in the area;
 - (vi) any organ of state having jurisdiction in respect of any aspect of the activity (as identified in the application form for the environmental authorization of this project); and
 - (vii) any other party as required by the competent authority;
- (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 metropolitan or district 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 competent authority, 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 an application for environmental authorization has been submitted to the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs in terms of the EIA Regulations, 2014;(ii)
 - (iii) a brief project description that includes the nature and location of the activity to which the application relates;
 - (iv) where further information on the application can be obtained; and
 - (iv) 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 competent authority 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 the EIA regulations.

Advertisements and notices must make provision for all alternatives.

4. DETERMINATION OF APPROPRIATE PROCESS

The EAP must ensure that the public participation process is according to that prescribed in chapter 6 regulation 41 of the EIA Regulations, 2014, but may deviate from the requirements of subregulation 54(2) in the manner agreed by the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs as appropriate for this application. 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 competent authority 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 this application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations (in the EIA Regulations, 2014) and be attached as Appendix E to this report.

6. PARTICIPATION BY DISTRICT, LOCAL AND TRADITIONAL AUTHORITIES

District, local and traditional authorities (where applicable) are all 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. The planning and the environmental sections of the local authority must be informed of this application and provided with an opportunity to comment.

Has any comment been received from the district municipality?

| | |
|-----|----|
| YES | NO |
| | X |

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

| |
|--|
| |
|--|

Has any comment been received from the local municipality?

| | |
|-----|----|
| YES | NO |
| | X |

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

| |
|--|
| |
|--|

Has any comment been received from a traditional authority?

| | |
|-----|----|
| YES | NO |
| | X |

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

| |
|--|
| |
|--|

7. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

| | |
|-----|----|
| YES | NO |
| | X |

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

| |
|--|
| |
|--|

SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the 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. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

None

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 as Appendix E to this report):

N/A

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

| Activity | Impact summary | Significance | Proposed mitigation |
|--|-----------------------------------|--------------|--|
| Alternative A 1 (preferred alternative) | | | |
| | Direct impacts: | | |
| | Positive impacts | High | None |
| | Air quality and disturbance | Low | Dust control by means of watering if necessary. Vehicles to be regularly serviced and well-tuned. Operations to be undertaken during working hours only. |
| | Surface and groundwater pollution | Low | Machinery should be properly maintained at all times. Servicing of machinery should take place only in specific demarcated and protected areas. Measures should be taken for the proper disposal of oils, grease, oil filters, rags, etc. |
| | Sewage and domestic waste | Low | Proper ablution facilities should be provided i.e. chemical toilets at appropriate locations on site if necessary or existing facilities must be used. Workers should be made aware of the risk of soil water contamination. Domestic waste should be disposed of in |

Basic Assessment Report

| Activity | Impact summary | Significance | Proposed mitigation |
|----------|---|--------------|---|
| | | | appropriate containers, and removed to the Middelburg municipal waste-disposal site as part of existing waste management system. |
| | Soil compaction, loss of fertility and increased erosion | Low | Appropriate measures should be taken to reduce the risk of erosion from unprotected slopes i.e. Diversion berms, ponding pools, and not exceeding angles of repose of stockpiled material. All unprotected slopes should be Rehabilitated concurrent with construction. |
| | Fires | Low | Cooking and heating fires permitted only in designated areas with appropriate safety measures. Adequate firefighting equipment should be available, as prescribed by the relevant safety standards and legislation. |
| | Disturbance of fauna | Low | Only small animals occur in this area e.g. small rodents and reptiles. The area is surrounded by similar habitat and fauna is expected to move voluntarily to surrounding areas. No fauna found on the site will be killed |
| | Safety | Low | Access to the construction site to be controlled at all times. |
| | Aesthetics | Low | If needed, an additional line of trees will be planted to minimise visual impact. |
| | Indirect impacts: None | | |
| | Cumulative impacts: None | | |
| | Operational Phase | | |
| | Manure | Low | All the manure will be utilised in the crop production as fertilizer and on lands where grazing occurs. The balance will be stockpiled and |

Basic Assessment Report

| Activity | Impact summary | Significance | Proposed mitigation |
|----------|------------------------------------|--------------|---|
| | | | processed for the sale to farmers and nurseries in the area. |
| | Carcasses | Low | The carcasses are removed on a daily basis and collected by a contractor. |
| | Indirect impacts: None | | |
| | Cumulative impacts: None | | |

| Alternative: S 1 | | | |
|------------------|--|------|--|
| | Direct impacts: | | |
| | Positive impacts | High | None |
| | Air quality and disturbance | Low | Dust control by means of watering if necessary. Vehicles to be regularly serviced and well-tuned. Operations to be undertaken during working hours only. |
| | Surface and groundwater pollution | Low | Machinery should be properly maintained at all times. Servicing of machinery should take place only in specific demarcated and of oils, grease, oil filters, rags, etc. |
| | Sewage and domestic waste | Low | Proper ablution facilities should be provided i.e. chemical toilets at appropriate locations on site if necessary or existing facilities must be used. Workers should be made aware of the risk of soil water contamination. Domestic waste should be disposed of in appropriate containers, and removed to the nearest municipal waste-disposal site. |
| | Soil compaction, loss of fertility and increased erosion | Low | Appropriate measures should be taken to reduce the risk of erosion from unprotected slopes i.e. diversion berms, ponding pools, and not exceeding angles of repose of stockpiled material. All unprotected |

Basic Assessment Report

| | | | |
|--|------------------------------------|-----|--|
| | | | slopes should be rehabilitated concurrent with construction. |
| | Fires | Low | Cooking and heating fires permitted only in designated areas with appropriate safety measures. Adequate firefighting equipment should be available, as prescribed by the relevant safety standards and legislation. |
| | Disturbance of fauna | Low | Only small animals occur in this area e.g. small rodents and reptiles. The area is surrounded by similar habitat and fauna is expected to move voluntarily to surrounding areas. No fauna found on the site will be killed |
| | Safety | Low | Access to the construction site to be controlled at all times. |
| | Aesthetics | Low | If needed, an additional line of trees will be planted to minimise visual impact. |
| | Manure | Low | All the manure will be utilised in the crop production as fertilizer and on lands where grazing occurs. The balance will be stockpiled and processed for the sale to farmers and nurseries in the area. |
| | Carcasses | Low | The carcasses are removed on a daily basis and collected by a contractor. |
| | Indirect impacts: None | | |
| | Cumulative impacts: None | | |

| No-go option | | | |
|--------------|------------------------------------|-----|------|
| | Direct impacts: | | |
| | Positive impacts | Low | None |
| | Air quality and disturbance | Low | None |
| | Surface and groundwater pollution | Low | None |
| | Sewage and domestic waste | Low | None |
| | Soil compaction, loss of fertility | Low | None |

Basic Assessment Report

| | | | |
|--|------------------------------------|-----|------|
| | and increased erosion | | |
| | Fires | Low | None |
| | Disturbance of fauna | Low | None |
| | Safety | Low | None |
| | Aesthetics | Low | None |
| | Manure | Low | None |
| | Carcasses | Low | None |
| | Indirect impacts: None | | |
| | Cumulative impacts: None | | |

3. PROPOSED MONITORING AND AUDITING

For each phase of the project and for each alternative, please indicate how identified impacts and mitigation will be monitored and/or audited.

Alternative S1 (preferred site)

Muzi Twala manager of the cattle feedlot and a representative of Sefala Logistics is responsible for implementation of the mitigation measures and will allocate tasks to individuals. Appropriate mechanisms as outlined in the proposed mitigation measures will become a part of standard operating procedures of the farm. The management steps will be implemented on an ongoing basis. Compliance monitoring will take place by means of regular environmental audits.

Auditing will take place according to the following guidelines

CONSTRUCTION PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

OPERATIONAL PHASE

Internal auditing to be conducted every three months.

External auditing to be conducted every six months.

DECOMMISSIONING PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

Alternative A1 (preferred alternative)

Muzi Twala manager of the cattle feedlot and a representative of Sefala Logistics is responsible for implementation of the mitigation measures and will allocate tasks to individuals. Appropriate mechanisms as outlined in the proposed mitigation measures will become a part of standard operating procedures of the farm. The management steps will be implemented on an ongoing basis. Compliance monitoring will take place by means of regular environmental audits.

Auditing will take place according to the following guidelines

CONSTRUCTION PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

OPERATIONAL PHASE

Internal auditing to be conducted every three months.

External auditing to be conducted every six months.

DECOMMISSIONING PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

4. 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 S1 (preferred alternative)

| Impact no: (As described in paragraphs 3 and 4 above) | Extent | Duration | Intensity | Probability | Significance | |
|--|------------------------------|-------------------------|-----------------------|------------------------------------|-----------------------|-----------|
| | Site Regional National | Short Medium Long | Low Medium High | Improbable Probable Definite | Low Medium High | |
| | | | | | Unmitigated | Mitigated |
| CONSTRUCTION PHASE | | | | | | |
| 1. Positive impacts | Site and Regional | Short | Low | Definite | High | High |
| 2. Air quality and disturbance | Site | Short | Medium | Definite | Medium | Low |
| 3. Surface and ground water | Site | Short | Low | Improbable | Low | Low |
| 4. Uncontrolled sewage and domestic waste | Site | Short | High | Improbable | High | Low |
| 5. Soil compaction, loss of fertility and increased erosion | Site | Long | Medium | Probable | High | Low |
| 6. Fires | Site and Regional | Short | High | Improbable | High | Low |
| 7. Disturbance of fauna | Site | Long | High | Definite | Low | Low |
| 8. Safety | Site | Short | High | Probable | High | Low |
| 9. Aesthetics | Site and Regional | Long | Low | Definite | Low | Low |
| OPERATIONAL PHASE | | | | | | |
| 1. Sewage, waste and litter | Site | Long | High | Definite | High | Low |
| 2. Chicken manure | Site | Long | High | Definite | High | Low |
| 3. Wash water and possible pollution of water | Site and Regional | Long | High | Improbable | High | Low |
| 4. Carcasses | Site | Long | High | Definite | High | Low |
| 5. Air pollution | Site and Regional | Long | Medium | Improbable | Medium | Low |

Basic Assessment Report

| | | | | | | | |
|---------------------|-------------------|------|--------|----------|------|------|--|
| 6. Positive impacts | Site and Regional | Long | Medium | Definite | High | High | |
|---------------------|-------------------|------|--------|----------|------|------|--|

Alternative A 1 (preferred alternative)

| Impact no: (As described in paragraphs 3 and 4 above) | Extent | Duration | Intensity | Probability | Significance | |
|--|------------------------------|-------------------------|-----------------------|------------------------------------|-----------------------|-----------|
| | Site Regional National | Short Medium Long | Low Medium High | Improbable Probable Definite | Low Medium High | |
| | | | | | Unmitigated | Mitigated |
| CONSTRUCTION PHASE | | | | | | |
| 1. Positive impacts | Site and Regional | Short | Low | Definite | High | High |
| 2. Air quality and disturbance | Site | Short | Medium | Definite | Medium | Low |
| 3. Surface and ground water | Site | Short | Low | Improbable | Low | Low |
| 4. Uncontrolled sewage and domestic waste | Site | Short | High | Improbable | High | Low |
| 5. Soil compaction, loss of fertility and increased erosion | Site | Long | Medium | Probable | High | Low |
| 6. Fires | Site and Regional | Short | High | Improbable | High | Low |
| 7. Disturbance of fauna | Site | Long | High | Definite | Low | Low |
| 8. Safety | Site | Short | High | Probable | High | Low |
| 9. Aesthetics | Site and Regional | Long | Low | Definite | Low | Low |
| OPERATIONAL PHASE | | | | | | |
| 1. Sewage, waste and litter | Site | Long | High | Definite | High | Low |
| 2. Chicken manure | Site | Long | High | Definite | High | Low |
| 3. Wash water and possible pollution of water | Site and Regional | Long | High | Improbable | High | Low |
| 4. Carcasses | Site | Long | High | Definite | High | Low |
| 5. Air pollution | Site and Regional | Long | Medium | Improbable | Medium | Low |
| 6. Positive impacts | Site and Regional | Long | Medium | Definite | High | High |

Alternative A2

No-go alternative (compulsory)

| Impact no: (As described in paragraphs 3 and 4 above) | Extent | Duration | Intensity | Probability | Significance | |
|--|------------------------------|-------------------------|-----------------------|------------------------------------|-----------------------|-----------|
| | Site Regional National | Short Medium Long | Low Medium High | Improbable Probable Definite | Low Medium High | |
| | | | | | Unmitigated | Mitigated |
| CONSTRUCTION PHASE | | | | | | |
| 1. Positive impacts | Site | Short | Low | Improbable | High | High |
| 2. Air quality and disturbance | Site | Short | Medium | Definite | Medium | Medium |
| 3. Surface and ground water | Site | Short | Low | Improbable | Low | Low |
| 4. Uncontrolled sewage and domestic waste | Site | Short | High | Improbable | Low | Low |
| 5. Soil compaction, loss of fertility and increased erosion | Site | Medium | Medium | Definite | Low | Low |
| 6. Fires | Site and Regional | Short | High | Improbable | High | Low |
| 7. Disturbance of fauna | Short | Long | High | Definite | Low | Low |
| 8. Safety | Site | Short | High | Improbable | Low | Low |
| 9. Aesthetics | Site and Regional | Short | Low | Definite | Low | Low |
| OPERATIONAL PHASE | | | | | | |
| 1. Sewage, waste and litter | Site | Long | High | Improbable | Low | Low |
| 2. Chicken manure | Site | N/A | High | Improbable | High | Low |
| 3. Wash water and possible pollution of water | Site and Regional | N/A | High | Improbable | High | Low |
| 4. Carcasses | Site | N/A | High | Improbable | High | Low |
| 5. Air pollution | Site and Regional | Short | Medium | Definite | Medium | Medium |
| 6. Positive impacts | Site and Regional | Long | Medium | Improbable | High | High |

SECTION F. RECOMMENDATION OF EAP

Is the information contained in this report and the documentation attached hereto in the view of the EAPr sufficient to make a decision in respect of this report?

If "NO", please contact the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs regarding the further requirements for your report.

| | |
|----------|----|
| YES X | NO |
| | |

If "YES", please attach the Final EMPr as Appendix F to this report and 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:

| |
|---|
| Mitigation and management measures as described in Section E should be considered for inclusion in any authorisation that may be granted. |
|---|

SECTION G: APPENDICES

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: Public Participation ✓

Appendix F: Final Environmental Management Programme (EMPr) ✓

Appendix G: Other information ✓

Appendix H: Details of EAP ✓