

**STOCKPILING ON A PORTION 240 OF THE FARM
ZWARTKOP 356 JR, CITY OF TSWANE, GAUTENG
PROVINCE**

DRAFT BASIC ASSESSMENT REPORT



JULY 2022

REFERENCE NUMBER: GAUT 002/22-23/E3172

PREPARED FOR:

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Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Version 2)

Kindly note that:

1. This **Basic Assessment Report** is the standard report required by GDARD in terms of the EIA Regulations, 2014.
2. This application form is current as of 8 December 2014. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
3. **A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken.**
4. **A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to a Competent Authority (uploaded to the EIA online system) empowered in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended to consider and decide on the application.**
5. A copy (PDF) of the final report and attachments must be uploaded to the EIA online system in at offices of the relevant competent authority, as detailed below.
6. 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.
7. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
8. An incomplete report may lead to an application for environmental authorisation being refused.
9. **Any report that does not contain a titled and dated full colour large scale layout plan of the proposed activities including a coherent legend, overlain with the sensitivities found on site may lead to an application for environmental authorisation being refused.**
10. 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 application for environmental authorisation being refused.
11. The applicant must fill in all relevant sections of this form. Incomplete applications will not be processed. The applicant will be notified of the missing information in the acknowledgement letter that will be sent within 10 days of receipt of the application.
12. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.
13. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
14. Although pre-application meeting with the Competent Authority is optional, applicants are advised to have these meetings prior to submission of application to seek guidance from the Competent Authority.

DEPARTMENTAL DETAILS

Gauteng Department of Agriculture and Rural Development
Attention: Administrative Unit of the of the Environmental Affairs Branch
P.O. Box 8769
Johannesburg
2000

Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch
Ground floor, Umnotho House, 56 Eloff Street, Johannesburg
Email Address: bongani.shabangu@gauteng.gov.za

Administrative Unit telephone number: (011) 240 3052/3052
Department central telephone number: (011) 240 2500

	(For official use only)					
NEAS Reference Number:						
File Reference Number:						
Application Number:						
Date Received:						

If this BAR has not been submitted within 90 days of receipt of the application by the competent authority and permission was not requested to submit within 140 days, please indicate the reasons for not submitting within time frame.

Is a closure plan applicable for this application and has it been included in this report? **YES**

if not, state reasons for not including the closure plan.

Has a draft report for this application been submitted to a competent authority and all State Departments administering a law relating to a matter likely to be affected as a result of this activity? **YES**

Is a list of the State Departments referred to above attached to this report including their full contact details and contact person? **YES**

If no, state reasons for not attaching the list.

Have State Departments including the competent authority commented? **NO**

If no, why?

No comments/issues were received from State Departments on the Background Information Document that was sent on the 14th of June to all stakeholders and I&AP's.

SECTION A: ACTIVITY INFORMATION

1. PROPOSAL OR DEVELOPMENT DESCRIPTION

Project title (must be the same name as per application form):

Stockpiling on A Portion 240 of The Farm Zwartkop 356 JR, City Of Tswane, Gauteng Province

Select the appropriate box

The application is for an upgrade of an existing development

The application is for a new development

Other, specify

Does the activity also require any authorisation other than NEMA EIA authorisation?

 NO

If yes, describe the legislation and the Competent Authority administering such legislation

If yes, have you applied for the authorisation(s)?

	N/A
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If yes, have you received approval(s)? (attach in appropriate appendix)

	N/A
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2. 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:

Title of legislation, policy or guideline:

Administering authority:

Promulgation Date:

National Environmental Management Act, 1998 (Act No. 107 of 1998 as amended).	National & Provincial	29 January 1999
National Environment Management: Air Quality Act 39 of 2004	Provincial	24 February 2005
National Environmental Management: Biodiversity Act, 2004	Provincial	7 June 2004
National Environmental Management: Waste Act 59 of 2008	Provincial	10 March 2009

Description of compliance with the relevant legislation, policy or guideline:

Legislation, policy of guideline	Description of compliance
GNR 327 Listing Notice 1 of 2017 Activity 26	Residential, retail, recreational, tourism, commercial or institutional developments of 1 000 square metres or more, on land previously used for mining or heavy industrial purposes – excluding — (i) where such land has been remediated in terms of part 8 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies; or (ii) where an environmental authorisation has been obtained for the decommissioning of such a mine or industry in terms of this Notice or any previous NEMA notice; or (iii) where a closure certificate has been issued in terms of section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) for such land.

<p>GNR 327 Listing Notice 1 of 2021 Activity 31</p>	<p>The closure of existing facilities, structures, or infrastructure for-</p> <ul style="list-style-type: none"> (i) Any development and related operation activity or activities listed in this Notice; (ii) Any expansion and related operation activities or activities listed in this Notice; (iii) ... <p>(iv) Any phased activity or activities for development and related operation activity or expansion or related operation activities listed in this Notice; or</p> <p>(v) Any activity regardless the time the activity was commenced with, where such activity:</p> <ul style="list-style-type: none"> (a) Is similarly listed to an activity in (i) or (ii) above; and (b) Is still in operation or development is in progress <p>Excluding where-</p> <ul style="list-style-type: none"> (aa) ... (bb) the closure is covered by part 8 of the National Environmental Management: Waste Act, 2008 as decommissioning, in which case the National Environmental Management: Waste Act, 2008 applies; or (cc) such closure forms part of a mining application in which case the requirements of the Financial Provisioning Regulations apply.
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3. ALTERNATIVES

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the 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.

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. **Do not include the no go option into the alternative table below.**

Note: 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.

Please describe the process followed to reach (decide on) the list of alternatives below

The proposed area is over an undisturbed area used for stockpiling next to an existing mining area. The position of the proposed site is ideal due to it being already disturbed without the need to open any natural vegetation therefore this was

deemed the only viable site alternative.

An alternative Site (S2) was assessed for the proposed stockpiling but found not environmentally and practically suitable as it is believed that the impact associated with this site alternative is of higher significance without the need or motivation justifying it.

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, energy, operational or other(provide details of "other")	Description
	N/A - please see above	

In the event that no alternative(s) has/have been provided, a motivation must be included in the table below.

As mentioned earlier, since the proposed area has already been previously used as a stockpile area, the applicant will not explore any other alternatives or disturb any other area.

4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc), impermeable surfaces and landscaped areas:

Proposed activity (**Total environmental (landscaping, parking, etc.) and the building footprint**)

Size of the activity:

15.7 ha

Alternatives: Refer to Section 3 above, no feasible alternatives exist.

Alternative 1 (if any)

Alternative 2 (if any)

Ha/ m²

or, for linear activities:

Proposed activity

Length of the activity:

Alternatives:

Alternative 1 (if any)

Alternative 2 (if any)

m/km

Indicate the size of the site(s) or servitudes (within which the above footprints will occur):

Proposed activity

Size of the site/servitude:

15.7 ha

Alternatives:

Alternative 1 (if any)

Alternative 2 (if any)

Ha/m²

5. SITE ACCESS

Proposal

Does ready access to the site exist, or is access directly from an existing road?

YES

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

m

Describe the type of access road planned:

The applicant will make use of the existing access road currently on site and no new roads will be needed for this activity. Adequate drainage and erosion protection in the form of cut-off berms or trenches will be provided where necessary.

Include the position of the access road on the site plan (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).



Figure 1: Satellite view showing the current access road (yellow line) to the proposed area site.

PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives

Section A 6-8 has been duplicated Number of times
(only complete when applicable)

6. LAYOUT OR ROUTE PLAN

A detailed site or route (for linear activities) plan(s) must be prepared for each alternative site or alternative activity. It must be attached to this document. The site or route plans must indicate the following:

- the layout plan is printed in colour and is overlaid with a sensitivity map (if applicable);
- layout plan is of acceptable paper size and scale, e.g.
 - A4 size for activities with development footprint of 10sqm to 5 hectares;
 - A3 size for activities with development footprint of > 5 hectares to 20 hectares;
 - A2 size for activities with development footprint of >20 hectares to 50 hectares);
 - A1 size for activities with development footprint of >50 hectares);
- The following should serve as a guide for scale issues on the layout plan:
 - A0 = 1: 500
 - A1 = 1: 1000
 - A2 = 1: 2000
 - A3 = 1: 4000
 - A4 = 1: 8000 (±10 000)
- shapefiles of the activity must be included in the electronic submission on the CD's;
- the property boundaries and Surveyor General numbers of all the properties within 50m of the site;
- the exact position of each element of the activity as well as any other structures on the site;
- the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, sewage pipelines, septic tanks, storm water infrastructure;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites (including the relevant buffers as prescribed by the competent authority) including (but not limited thereto):
 - Rivers and wetlands;
 - the 1:100 and 1:50 year flood line;
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the position of the relevant buffer from the bank to be clearly indicated)

FOR LOCALITY MAP (NOTE THIS IS ALSO INCLUDED IN THE APPLICATION FORM REQUIREMENTS)

- the scale of locality map must be 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 locality map and all other maps must be in colour;
- locality map must show property boundaries and numbers within 100m of the site, and for poultry and/or piggery, locality map must show properties within 500m and prevailing or predominant wind direction;
- for gentle slopes the 1m contour intervals must be indicated on the map and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the map;
- areas with indigenous vegetation (even if it is degraded or infested with alien species);
- locality map must show exact position of development site or sites;
- locality map showing and identifying (if possible) public and access roads; and
- the current land use as well as the land use zoning of each of the properties adjoining the site or sites.

7. SITE PHOTOGRAPHS

Colour photographs from the center 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 the appropriate Appendix. It should be supplemented with additional photographs of relevant features on the site, where applicable.

8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 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 to be attached in the appropriate Appendix.

SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

Note: Complete Section B for the proposal and alternative(s) (if necessary)

Instructions for completion of Section B for linear activities

- 1) For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
- 2) Indicate on a plan(s) the different environments identified
- 3) Complete Section B for each of the above areas identified
- 4) Attach to this form in a chronological order
- 5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

Section B has been duplicated for sections of the route times

Instructions for completion of Section B for location/route alternatives

- 1) For each location/route alternative identified the entire Section B needs to be completed
- 2) Each alternative location/route needs to be clearly indicated at the top of the next page
- 3) Attach the above documents in a chronological order

Section B has been duplicated for location/route alternatives times (complete only when appropriate)

Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application

Section B is to be completed and attachments order in the following way

- All significantly different environments identified for Alternative 1 is to be completed and attached in a chronological order; then
- All significantly different environments identified for Alternative 2 is to be completed and attached chronological order, etc.

Section B - Section of Route (complete only when appropriate for above)

Section B – Location/route Alternative No. (complete only when appropriate for above)

<p>1. PROPERTY DESCRIPTION Property description: (Including Physical Address and Farm name, portion etc.)</p>	<p>The applicant, Lomez Mining Services (Pty) Ltd, intends to sell the existing stockpiled material as well as stockpile and sell material in future as a commercial product on portion 240 of the Farm Zwartkop 356 JR, City of Tswane, Gauteng Province to various clients in the Road and Infrastructure industries.</p> <p>The above-mentioned area is a site previously used for mining purposes and the area contains existing dolomite stockpiles in which the applicant intends to sell the material as a commercial product. The proposed footprint will be 15.7 ha. The applicant applied for an EA according to National Environmental Management Act, 1998 (Act No 107 Of 1998 NEMA) as well as the Environmental Impact Assessment Regulations of 2014 (as amended) for a stockpile area exceeding 1000 square metres to sell the existing material as a commercial product as well as future use for a temporary storage area for commercial sales.</p> <p>The area is located approximately 1.8 km from the residential area Laudium and 2.8 km from Erasmia. The Zwartkops Raceway borders the site to the</p>
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	<p>west, with the S.W.A.T National Firearms Centre bordering the property of the proposed area to the north. The Department of Defense SA Special Forces Joint Operations Division utilize the bordering property for military purposes, with the Department of Transport's offices and housing infrastructure bordering the proposed property to the south and a conservation area bordering the proposed area to the south-east direction.</p> <p>The property (Portion 240 of the farm Zwartkop 356JR) was previously used for mining purposes with the existing quarry on site used for the winning of mineral resources in the 1960's.</p> <p>The M22 (Quagga Road) and M24 (Alaric road) pass the property respectively to the west and south east.</p>
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2. 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 decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

Proposed site:

	Latitude (S):	Longitude (E):
	Latitude (S)	Longitude (E)
A	25°48'25,333"S	28°6'56,102"E
B	25°48'25,837"S	28°6'58,313"E
C	25°48'29,401"S	28°7'4,508"E
D	25°48'28,019"S	28°7'6,362"E
E	25°48'34,373"S	28°7'11,273"E
F	25°48'39,132"S	28°7'5,7"E
G	25°48'40,108"S	28°6'53,878"E
H	25°48'32,353"S	28°6'50,324"E
I	25°48'31,446"S	28°6'54,097"E
J	25°48'30,838"S	28°6'54,198"E
K	25°48'29,225"S	28°6'57,69"E
L	25°48'25,333"S	28°6'56,102"E



Figure 2: Satellite image of the proposed stockpile area (yellow polygon)

The 21-digit Surveyor General code of each cadastral land parcel

PROPOSAL	T	O	J	R	0	0	0	0	0	0	0	0	0	0	3	5	6	0	0	2	4	0
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3. GRADIENT OF THE SITE

Indicate the general gradient of the site.

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

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

Ridgeline	Plateau	Side slope of hill/ridge	Valley	Plain	Undulating plain/low hills	River front
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5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

a) Is the site located on any of the following?

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

	NO
YES	
	NO
	NO
	NO
	NO
	NO

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

b) are any caves located on the site(s)

	NO
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If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):	Longitude (E):
°	°

c) are any caves located within a 300m radius of the site(s) NO
 If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):	Longitude (E):
°	°

d) are any sinkholes located within a 300m radius of the site(s) NO
 If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):	Longitude (E):
°	°

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

6. AGRICULTURE

Does the site have high potential agriculture as contemplated in the Gauteng Agricultural Potential Atlas (GAPA 4)? NO

Please note: The Department may request specialist input/studies in respect of the above.

7. GROUNDCOVER

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

Indicate the types of groundcover present on the site and include the estimated percentage found on site

Natural veld - good condition % = 20	Natural veld with scattered aliens % = 12	Natural veld with heavy alien infestation % =	Veld dominated by alien species % =	Landscaped (vegetation) % =
Sport field % =	Cultivated land % =	Paved surface (hard landscaping) % =	Building or other structure % =	Bare soil % = 88

Please note: The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site NO

If YES, specify and explain:

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Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site. NO

If YES, specify and explain:

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Are there any special or sensitive habitats or other natural features present on the site? NO

If YES, specify and explain:

According to SANBI's Gauteng C-Plan 3.3 (Terrestrial CBA) map a section of the proposed area falls within an ecological support area. However, this area has been previously disturbed, and no sensitive landscapes remain within the application as it was previously used for mining purposes. A small section 1.9 ha (12% of the application area) has not yet been disturbed and should be regarded as a no-go area.

Was a specialist consulted to assist with completing this section NO

If yes complete specialist details

Christine Fouche has relevant qualifications as indicated below and due to the existing disturbances on site, no further specialists were required.

Name of the specialist: Ms Christine Fouché

Qualification(s) of the specialist: Ms Fouché has a Diploma in Nature Conservation and a B.Sc. in Botany and Zoology

Postal address: Unit MO1, No 37 AECl Site, Baker Square, Paardevlei De Beers Avenue, Somerset West

Postal code: 7130

Telephone: 021 850 8875 Cell: 082 811 8514

E-mail: christine.f@greenmined.co.za Fax:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

If YES list the specialist reports attached below

Signature of specialist: _____ Date: _____

Please note; If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

1. Vacant land	2. River, stream, wetland	3. Nature conservation area	4. Public open space	5. Koppie or ridge
6. Dam or reservoir	7. Agriculture	8. Low density residential	9. Medium to high density residential	10. Informal residential
11. Old age home	12. Retail	13. Offices	14. Commercial & warehousing	15. Light industrial
16. Heavy industrial ^{AN}	17. Hospitality facility	18. Church	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport ^N	23. Train station or shunting yard ^N	24. Railway line ^N	25. Major road (4 lanes or more) ^N
26. Sewage treatment plant ^A	27. Landfill or waste treatment site ^A	28. Historical building	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam ^A	34. Small Holdings	
Other land uses (describe):	The Zwartkops Raceway borders the site to the west, with the S.W.A.T National Firearms Centre bordering the property of the proposed area to the north. An existing open cast pit mined by Exxaro borders the site to the east. The Department of Defence SA Special Forces Joint Operations Division utilize the bordering property for military purposes, with the Department of Transport's offices and housing infrastructure bordering the proposed stockpiling area to the south.			

NOTE: Each block represents an area of 250m X 250m, if your proposed development is larger than this please use the appropriate number and orientation of hashed blocks

NORTH					
	1	25	1	1	8
	8	25	OTHER	31	8
WEST	OTHER	25		1	8
	OTHER	25		1	1
	1	25	OTHER	3	1
SOUTH					
	EAST				

Note: More than one (1) Land-use may be indicated in a block

Please note: The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an “A” and with an “N” respectively.

Have specialist reports been attached
If yes indicate the type of reports below

	NO
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9. SOCIO-ECONOMIC CONTEXT

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

SOCIO-ECONOMIC ENVIRONMENT

(Information extracted from the City of Tshwane Integrated Development Plan - 2021-2026)

The proposed area is located within region 4 of City of Tshwane Metropolitan Municipality that is situated in the south-western portion of the metropolitan area. The region borders on the area of jurisdiction of the City of Johannesburg, the City of Ekurhuleni as well as Mogale City to the west. Region 4 is 489 km² in extent and has 11 wards.

City of Tshwane Metropolitan Municipality which is the fourth biggest municipality in South Africa and second biggest in Gauteng in terms of gross value added by region with gross value add of R497 billion. In 2019, City of Tshwane contributed 28.4 percent to the provincial economy. Moreover, Tshwane accounted for 9.79 percent of the country's economy.

Population structure

City of Tshwane Metropolitan Municipality's male/female split in population was 98.0 males per 100 females in 2019. In 2019, the City of Tshwane Metropolitan Municipality's population consisted of 78.95% African (2.81 million), 16.89% White (601 000), 2.02% Coloured (71 900) and 2.14% Asian (76 000) people.

The largest share of population is within the young working age (25-44 years) age category with a total number of 1.23 million or 34.7% of the total population. The age category with the second largest number of people is the babies and kids (0-14 years) age category with a total share of 24.9%, followed by the older working age (45-64 years) age category with 615 000 people. The age category with the least number of people is the retired / old age (65 years and older) age category with only 243 000 people, as reflected in the population pyramids below.

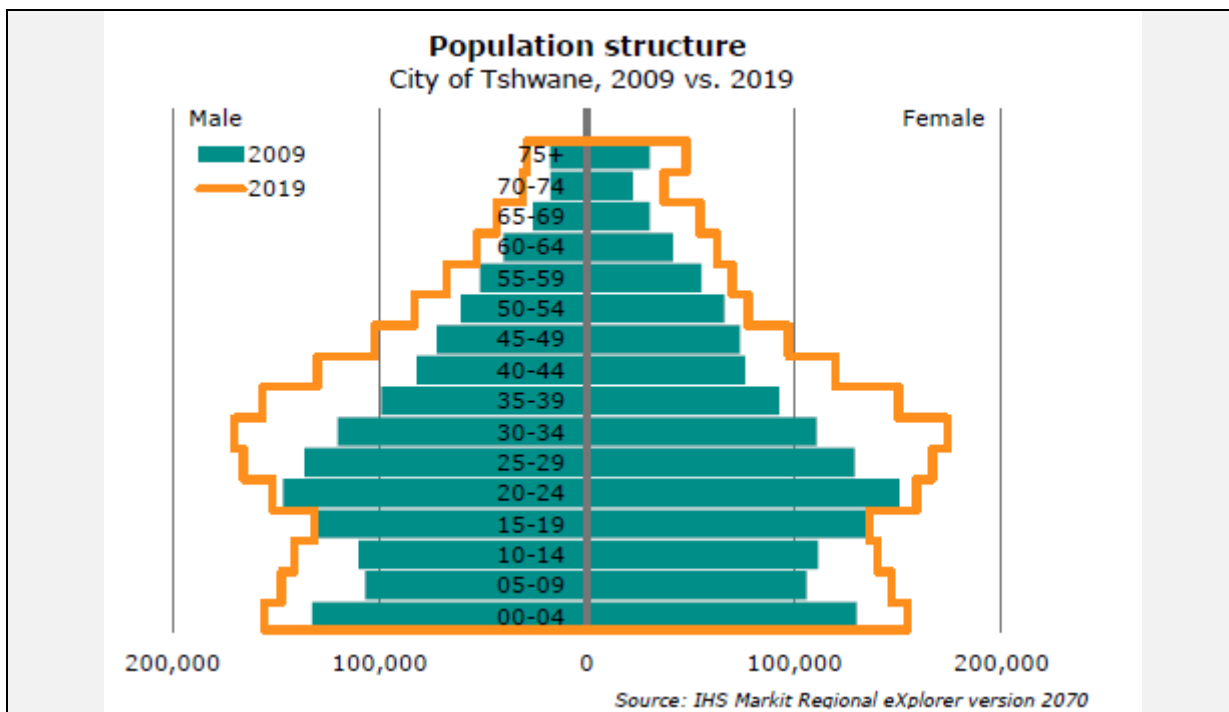


Figure 3: Population structure of City of Tshwane, 2009 vs 2019 (image extracted from the City of Tshwane Integrated Development Plan - 2021-2026)

Education

The number of people without any schooling decreased from 2009 to 2019 with an average annual rate of -1.95%, while the number of people within the 'matric only' category, increased from 586,000 to 876,000. The number of people with 'matric and a certificate/diploma' increased with an average annual rate of 3.29%, with the number of people with a 'matric and a Bachelor's' degree increasing with an average annual rate of 5.47%. Overall improvement in the level of education is visible with an increase in the number of people with 'matric' or higher education.

Table 1: Highest level of education: Age 15+ (image extracted from the City of Tshwane Integrated Development Plan - 2021-2026)

	City of Tshwane	Gauteng	National Total	City of Tshwane % of province	City of Tshwane as % of national
No schooling	63,700	229,000	2,060,000	27.9%	3.1%
Grade 0-2	19,500	89,500	638,000	21.8%	3.1%
Grade 3-6	104,000	479,000	3,030,000	21.6%	3.4%
Grade 7-9	249,000	1,200,000	6,130,000	20.8%	4.1%
Grade 10-11	486,000	2,310,000	9,130,000	21.1%	5.3%
Certificate / diploma without matric	13,700	53,100	183,000	25.8%	7.5%
Matric only	876,000	3,580,000	11,400,000	24.5%	7.7%
Matric certificate / diploma	236,000	785,000	2,380,000	30.1%	9.9%
Matric Bachelors degree	232,000	703,000	1,760,000	33.0%	13.2%
Matric Postgrad degree	120,000	349,000	787,000	34.5%	15.3%

Economy

City of Tshwane Metropolitan Municipality employs a total number of 1.21 million people within its metropolitan municipality. The metropolitan municipality that employs the highest number of people relative to the other regions within Gauteng Province is City of Johannesburg metropolitan municipality with a total number of 2.13 million. The metropolitan municipality that employs the lowest number of people relative to the other regions within Gauteng Province is Sedibeng metropolitan municipality with a total number of 244 000 employed people.

In City of Tshwane Metropolitan Municipality the economic sectors that recorded the largest number of employment in 2019 were the community services sector with a total of 284 000 employed people or 23.5% of total employment in the metropolitan municipality. The finance sector with a total of 284 000 (23.4%) employs the second highest number of people relative to the rest of the sectors. The electricity sector with 2 420 (0.2%) is the sector that employs the least number of people in City of Tshwane Metropolitan Municipality, followed by the agriculture sector with 10 400 (0.9%) people employed.

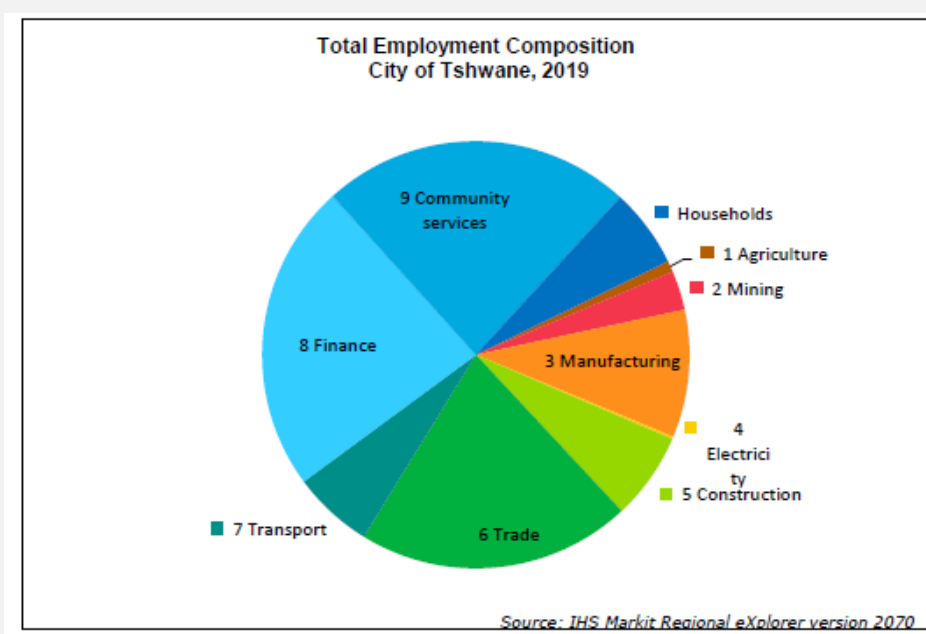


Figure 4: Total Employment Per Broad Economic Sector (image extracted from the City of Tshwane Integrated Development Plan - 2021-2026)

Additional workers to be appointed on this site will be sourced from the local community. Workers will daily be transported to the site. The stockpiled material could be used to generate income as well as provide material to the construction and business industries thereby generating income and directly contributing to the economy of the area

10. CULTURAL/HISTORICAL FEATURES

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-

- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
- (b) the construction of a bridge or similar structure exceeding 50m in length;
- (c) any development or other activity which will change the character of a site-
 - (i) exceeding 5 000 m² in extent; or
 - (ii) involving three or more existing erven or subdivisions thereof; or

- (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
- (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
- (d) the re-zoning of a site exceeding 10 000 m2 in extent; or
- (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

Are there any signs of culturally (aesthetic, social, spiritual, environmental) 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 close (within 20m) to the site?

	NO
--	----

If YES, explain:

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

Will any building or structure older than 60 years be affected in any way?
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

	NO
	NO

If yes, please attached the comments from SAHRA in the appropriate Appendix

SECTION C: PUBLIC PARTICIPATION (SECTION 41)

1. The Environmental Assessment Practitioner must conduct public participation process in accordance with the requirement of the EIA Regulations, 2014.

2. LOCAL AUTHORITY PARTICIPATION

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least thirty (30) calendar days before the submission of the application to the competent authority.

Was the draft report submitted to the local authority for comment? NO

If yes, has any comments been received from the local authority? NO

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

If "NO" briefly explain why no comments have been received or why the report was not submitted if that is the case.

A Background Information Document was sent via email on the 14th of June 2022 to all stakeholders and I&AP's to provide their comments and concerns regarding this project.

In accordance with the timeframes stipulated in the EIA Regulations, 2014 (as amended) the Draft Basic Assessment Report (DBAR) will also be distributed for comment and perusal to the I&AP's and stakeholders. Another 30-day commenting period, will be allowed for perusal of the documentation and submission of comments. The comments received on the DBAR will be incorporated into the Final Basic Assessment Report (FBAR) for decision making to GDARD.

3. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the activity, site or property, such as servitude holders and service providers, should be informed of the application at least **thirty (30) calendar days** before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders? NO

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

If "NO" briefly explain why no comments have been received

No comments were received on the Background Information Document that was sent on the 14th of June to all stakeholders and I&AP's.

4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS

The Environmental Assessment Practitioner must ensure that the public participation process is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. 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 flawed.

The EAP must record all comments and respond to each comment of the public / interested and affected party before the application report is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

5. APPENDICES FOR PUBLIC PARTICIPATION

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below

- Appendix 1 – Proof of site notice **(attached as Appendix D1)**
- Appendix 2 – Written notices issued as required in terms of the regulations **(attached as Appendix D2)**
- Appendix 3 – Proof of newspaper advertisements **(attached as Appendix D3)**
- Appendix 4 – Communications to and from interested and affected parties **(attached as Appendix D4)**
- Appendix 5 – Minutes of any public and/or stakeholder meetings **N/A – no PPP meeting was requested.**
- Appendix 6 - Comments and Responses Report **(attached as Appendix D5)**
- Appendix 7 –Comments from I&APs on Basic Assessment (BA) Report **not yet applicable**
- Appendix 8 –Comments from I&APs on amendments to the BA Report **N/A**
- Appendix 9 – Copy of the register of I&APs **(attached as Appendix D6)**

SECTION D: RESOURCE USE AND PROCESS DETAILS

Note: Section D is to be completed for the proposal and alternative(s) (if necessary)

Instructions for completion of Section D for alternatives

- 1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed
- 4) Each alternative needs to be clearly indicated in the box below
- 5) Attach the above documents in a chronological order

Section D has been duplicated for alternatives times (complete only when appropriate)

Section D Alternative No. (complete only when appropriate for above)

1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

Solid waste management

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

YES	<input type="text"/>
	m ³

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

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

The proposed project will continue activities on the existing stockpile area, making use of the existing site offices (storage containers), access roads and weighbridge. Therefore, no construction phase will be implemented. Due to the nature of the project, the small scale of the proposed operation, and the fact that no permanent infrastructure will be established, very little to no general waste will be generated. Should any emergency vehicle repairs be done all spills must be disposed of in a 200 litre closed container/bin found inside the emergency service area

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

Since no construction phase will be implemented, no construction solid waste will be generated. However, any waste generated during the activity, will be contained in a sealable refuse bin that will be removed from site and incorporated in an approved waste disposal system of the contractor.

Will the activity produce solid waste during its operational phase?

YES	<input type="text"/>
	0.5 m ³

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

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

As mentioned earlier, the small scale of the project will generate very little waste. Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., will be stored in a container at a collecting point and collected on a regular basis and disposed of at a recognized landfill site. Specific precautions shall be taken to prevent refuse from being dumped on or in the vicinity of the area. No waste will be disposed of, buried, burned or treated on the site.

Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/disposing of the solid waste to be generated by this activity? NO

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

Note: 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, 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 relevant legislation? NO
 If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility? NO
 If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

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

Liquid effluent (other than domestic sewage)

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? NO

If yes, what estimated quantity will be produced per month? m³
 If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity(ies)?

Will the activity produce any effluent that will be treated and/or disposed of on site? NO
 If yes, what estimated quantity will be produced per month? 0.5m³

If yes describe the nature of the effluent and how it will be disposed.
 Any effluents containing oil, grease or other industrial substances will not be **treated or disposed on site** but will be collected if accidental spillages occur in a suitable receptacle and removed from the site, either for resale or for appropriate disposal at a recognized facility

Note that if effluent is to be treated or disposed on site 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? YES

If yes, provide the particulars of the facility:
 Facility name: B-ONE HIRE
 Contact person: Sharon
 Postal address: 9 Theron St, Lyttelton, Centurion,
 Postal code: 0157
 Telephone: 0861 008 009 Cell: 071 609 2244
 E-mail: sharon@b-one.co.za Fax:

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

Liquid effluent (domestic sewage)

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system? NO
 If yes, what estimated quantity will be produced per month? m³

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity(ies)? NO

Will the activity produce any effluent that will be treated and/or disposed of on site? NO
 If yes describe how it will be treated and disposed off.

Ablution facilities will be provided in the form of a chemical toilet/s but will not be **treated and/or disposed** of on site. The chemical toilet will be anchored (to prevent blowing/falling over) and shall be serviced at least once a week for the duration of the activities by a registered liquid waste handling contractor.

Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

	NO
	NO

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

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

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

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2. WATER USE

Indicate the source(s) of water that will be used for the activity

municipal	Directly from water board	groundwater	river, stream, dam or lake	other	the activity will not use water
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Any water required for the implementation of the project will be bought from a registered source and transported to on site. Roads will be sprayed with water or an environmentally friendly dust-allaying agent that contains no pcb's (e.g. Das products) if dust is generated above acceptable limits.

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:

	liters
--	--------

If Yes, please attach proof of assurance of water supply, e.g. yield of borehole, in the appropriate Appendix

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

	NO
--	----

If yes, list the permits required

--

If yes, have you applied for the water use permit(s)?

--	--

If yes, have you received approval(s)? (attached in appropriate appendix)

--	--

3. POWER SUPPLY

Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source

Generators

If power supply is not available, where will power be sourced from?

The proposed project will make use of generators to supply minimal electricity to the containers that will be present on site for office use.

4. ENERGY EFFICIENCY

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

N/A

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

N/A

SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts as well as the impacts of not implementing the activity (Section 24(4)(b)(i)).

1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

No comments/issues were received on the Background Information Document that was sent on the 14th of June to all stakeholders and I&AP's.

Summary of response from the practitioner to the issues raised by the interested and affected parties (including the manner in which the public comments are incorporated or why they were not included)

(A full response must be provided in the Comments and Response Report that must be attached to this report):

As mentioned earlier, no comments were received on the Background Information Document that was sent on the 14th of June to all stakeholders and I&AP's. Therefore, no responses could be generated by the environmental practitioner

2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

Briefly describe the methodology utilised in the rating of significance of impacts

Please see the description of the methodology below

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

Methodology for the assessment of the potential environmental, social and cultural impacts

DEFINITIONS AND CONCEPTS:

Environmental significance:

The concept of significance is at the core of impact identification, evaluation and decision-making. The concept remains largely undefined and there is no international consensus on a single definition. The following common elements are recognised from the various interpretations:

- Environmental significance is a value judgement
- The degree of environmental significance depends on the nature of the impact
- The importance is rated in terms of both biophysical and socio-economic values
- Determining significance involves the amount of change to the environment perceived to be acceptable to affected communities.

Significance can be differentiated into impact magnitude and impact significance. Impact magnitude is the measurable change (i.e. intensity, duration and likelihood). Impact significance is the value placed on the change by different affected parties (i.e. level of acceptability) (DEAT (2002) Impact Significance, Integrated Environmental Management, Information Series 5).

The concept of risk has two dimensions, namely the consequence of an event or set of circumstances, and the likelihood of particular consequences being realised (Environment Australia (1999) Environmental Risk Management).

Impact

The positive or negative effects on human well-being and / or the environment.

Consequence

The intermediate or final outcome of an event or situation OR it is the result, on the environment, of an event.

Likelihood

A qualitative term covering both probability and frequency.

Frequency

The number of occurrences of a defined event in a given time or rate.

Probability

The likelihood of a specific outcome measured by the ratio of a specific outcome to the total number of possible outcomes.

Environment

Surroundings in which an organisation operates, including air, water, land, natural resources, flora, fauna, humans and their interrelation (ISO 14004, 1996).

Methodology that will be used

The environmental significance assessment methodology is based on the following determination:

Environmental Significance = Overall Consequence x Overall Likelihood

Determination of Overall Consequence

Consequence analysis is a mixture of quantitative and qualitative information and the outcome can be positive or negative. Several factors can be used to determine consequence. For the purpose of determining the environmental significance in terms of consequence, the following factors were chosen: **Severity/Intensity, Duration and Extent/Spatial Scale**. Each factor is assigned a rating of 1 to 5, as described in the tables below.

Determination of Severity / Intensity

Severity relates to the nature of the event, aspect or impact to the environment and describes how severe the aspects impact on the biophysical and socio-economic environment.

Table 1 will be used to obtain an overall rating for severity, taking into consideration the various criteria.

Rating of Severity:

Type of criteria	Rating				
	1	2	3	4	5
Quantitative	0-20%	21-40%	41-60%	61-80%	81-100%
Qualitative	Insignificant / Non-harmful	Small / Potentially harmful	Significant/ Harmful	Great/ Very harmful	Disastrous Extremely harmful
Social/ Community response	Acceptable / I&AP satisfied	Slightly tolerable / Possible objections	Intolerable/ Sporadic complaints	Unacceptable / Widespread complaints	Totally unacceptable / Possible legal action
Irreversibility	Very low cost to mitigate/ High potential to mitigate impacts to level of insignificance/ Easily reversible	Low cost to mitigate	Substantial cost to mitigate/ Potential to mitigate impacts/ Potential to reverse impact	High cost to mitigate	Prohibitive cost to mitigate/ Little or no mechanism to mitigate impact Irreversible
Biophysical (Air quality, water quantity and	Insignificant change / deterioration or disturbance	Moderate change / deterioration or disturbance	Significant change / deterioration or disturbance	Very significant change / deterioration or disturbance	Disastrous change / deterioration or disturbance

quality, production, and flora)	waste fauna					
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Determination of Duration

Duration refers to the amount of time that the environment will be affected by the event, risk or impact, if no intervention e.g. remedial action takes place.

Rating of Duration:

Rating	Description
1	Up to ONE MONTH
2	ONE MONTH to THREE MONTHS (QUARTER)
3	THREE MONTHS to ONE YEAR
4	ONE to TEN YEARS
5	Beyond TEN YEARS

Determination of Extent/Spatial Scale

Extent or spatial scale is the area affected by the event, aspect or impact.

Rating of Extent / Spatial Scale:

Rating	Description
1	Immediate, fully contained area
2	Surrounding area
3	Within Business Unit area of responsibility
4	Within the farm/neighboring farm area
5	Regional, National, International

Determination of Overall Consequence

Overall consequence is determined by adding the factors determined above and summarized below, and then dividing the sum by 3.

Example of calculating Overall Consequence

Consequence	Rating
Severity	Example 4
Duration	Example 2
Extent	Example 4
SUBTOTAL	10
TOTAL CONSEQUENCE: (Subtotal divided by 3)	3.3

Determination of Likelihood:

The determination of likelihood is a combination of Frequency and Probability. Each factor is assigned a rating of 1 to 5, as described below and in tables 6 and 7.

Determination of Frequency

Frequency refers to how often the specific activity, related to the event, aspect or impact, is undertaken.

Rating of Frequency:

Rating	Description
1	Once a year or once/more during operation
2	Once/more in 6 Months
3	Once/more a Month
4	Once/more a Week
5	Daily

Determination of Probability

Probability refers to how often the activity or aspect has an impact on the environment.

Rating of Probability

Rating	Description
1	Almost never / almost impossible
2	Very seldom / highly unlikely
3	Infrequent / unlikely / seldom
4	Often / regularly / likely / possible
5	Daily / highly likely / definitely

Overall Likelihood

Overall likelihood is calculated by adding the factors determined above and summarised below, and then dividing the sum by 2.

Example of calculating Overall Likelihood

Consequence	Rating
Frequency	Example 4
Probability	Example 2
SUBTOTAL	6
TOTAL LIKELIHOOD (Subtotal divided by 2)	3

Determination of Overall Environmental Significance:

The multiplication of overall consequence with overall likelihood will provide the environmental significance, which is a number that will then fall into a range of **LOW**, **LOW-MEDIUM**, **MEDIUM**, **MEDIUM-HIGH** or **HIGH**, as shown in the table below.

Determination of Overall Environmental Significance

Significance or Risk	Low	Low-Medium	Medium	Medium-High	High
Overall Consequence X Overall Likelihood	1 - 4.9	5 - 9.9	10 - 14.9	15 – 19.9	20 - 25

Qualitative description or magnitude of Environmental Significance

This description is qualitative and is an indication of the nature or magnitude of the Environmental Significance. It also guides the prioritisations and decision making process associated with this event, aspect or impact.

Description of Environmental Significance and related action required

Significance	Low	Low-Medium	Medium	Medium-High	High
Impact Magnitude	Impact is of very low order and therefore likely to have very little real effect. Acceptable.	Impact is of low order and therefore likely to have little real effect. Acceptable.	Impact is real, and potentially substantial in relation to other impacts. Can pose a risk to company	Impact is real and substantial in relation to other impacts. Pose a risk to the company. Unacceptable	Impact is of the highest order possible. Unacceptable. Fatal flaw.
Action Required	Maintain current management measures. Where possible improve.	Maintain current management measures. Implement monitoring and evaluate to determine potential increase in risk. Where possible improve	Implement monitoring. Investigate mitigation measures and improve management measures to reduce risk, where possible.	Improve management measures to reduce risk.	Implement significant mitigation measures or implement alternatives.

Based on the above, the significance rating scale has been determined as follows:

High	Of the highest order possible within the bounds of impacts which could occur. In the case of negative impacts, there would be no possible mitigation and / or remedial activity to offset the impact at the spatial or time scale for which it was predicted. In the case of positive impacts, there is no real alternative to achieving the benefit.
Medium-High	Impacts of a substantial order. In the case of negative impacts, mitigation and / or remedial activity would be feasible but difficult, expensive, time-consuming or some combination of these. In the case of positive impacts, other means of achieving this benefit would be feasible, but these would be more difficult, expensive, time-consuming or some combination of these.
Medium	Impact would be real but not substantial within the bounds of those, which could occur. In the case of negative impacts, mitigation and / or remedial activity would be both feasible and fairly easily possible, In case of positive impacts; other means of achieving these benefits would be about equal in time, cost and effort.
Low-Medium	Impact would be of a low order and with little real effect. In the case of negative impacts, mitigation and / or remedial activity would be either easily achieved or little would be required, or both. In case of positive impacts alternative means for achieving this benefit would likely be easier, cheaper, more effective, less time-consuming, or some combination of these.
Low	Impact would be negligible. In the case of negative impacts, almost no mitigation and or remedial activity would be needed, and any minor steps, which might be needed, would be easy, cheap and simple. In the case of positive impacts, alternative means would almost all likely be better, in one or a number of ways, than this means of achieving the benefit
Insignificant	There would be a no impact at all – not even a very low impact on the system or any of its parts.

OPERATIONAL PHASE

Visual intrusion associated with the stockpiled material and vehicles transporting the material

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	4	1	2.3	3	5	4	9.2				

Work opportunities to local residents (Positive Impact)

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
4	4	5	4.6	5	5	5	23				

Weed and invader plant infestation of the area

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	1	2.6	4	2	3	7.8				

Loss of material due to ineffective storm water handling

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	1	2.6	4	3	3.5	9.1				

Dust nuisance from stockpiled material and vehicles transporting the material

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
4	4	2	3.3	5	4	4.5	14.9				

Degradation of access roads

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
4	4	3	3.6	4	4	4	14.4				

Noise nuisance caused by vehicles

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
4	4	2	3.3	4	4	4	13.2				

Contamination of area with hydrocarbons or hazardous waste materials

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	2	3	4	3	3.5	10.5				

Overloading of trucks impacting road infrastructure

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	2	3	4	3	3.5	10.5				

Soil erosion

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
4	5	1	3.3	4	5	4.5	14.9				

DECOMMISSIONING PHASE

Visual intrusion associated with the rehabilitation of the area

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	3	1	2.3	2	2	2	4.6				

Dust nuisance caused during sloping and landscaping activities

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	1	2.6	4	2	3	7.8				

Noise nuisance caused by machinery

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	2	2	2.3	4	2	3	6.9				

Contamination of area with hydrocarbons or hazardous waste materials

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	2	1	2	4	2	3	6				

Infestation of the area by weed and invader plants

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	1	2.6	4	3	3.5	9.1				

Table 2: iv) Impacts to be mitigated in their respective phases

Proposal

POTENTIAL IMPACTS:	SIGNIFICANCE RATING OF IMPACTS (POSITIVE OR NEGATIVE):	PROPOSED MITIGATION:	SIGNIFICANCE RATING OF IMPACTS AFTER MITIGATION:	RISK OF THE IMPACT AND MITIGATION NOT BEING IMPLEMENTED
OPERATIONAL PHASE:				
Visual intrusion associated with the stockpiled material and vehicles transporting the material	Low - Medium (negative)	<ul style="list-style-type: none"> ■ The site needs to have a neat appearance and be kept in good condition at all times. ■ Upon closure the site needs to be rehabilitated and sloped to insure that the visual impact on the aesthetic value of the area is kept to a minimum. ■ All activities must take place within the boundaries of the site. 	Low - Medium (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented
Weed and invader plant infestation of the area	Low - Medium (negative)	<ul style="list-style-type: none"> ■ A weed and invader plant control management plan must be implemented at the site to ensure eradication of all listed invader plants in terms of Conservation of 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented

		<p>Agricultural Act (Act No 43 1983).</p> <ul style="list-style-type: none"> ■ Management must take responsibility to control declared invader or exotic species on the rehabilitated areas. The following control methods can be used: ■ "The plants can be uprooted, felled or cut off and can be destroyed completely." ■ "The plants can be treated with an herbicide that is registered for use in connection therewith and in accordance with the directions for the use of such an herbicide." ■ The temporary stockpiles needs to be kept free of weeds. 		
Loss of material due to ineffective storm water handling	Low – Medium (negative)	<ul style="list-style-type: none"> ■ Storm water must be diverted around the stockpile areas and access roads to prevent erosion and loss of material. ■ Runoff water must also be diverted around the stockpile areas with trenches and contour structures to prevent erosion of the work areas. 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.

		<ul style="list-style-type: none">■ The activities must be conducted only in accordance with the Best Practice Guideline that relates to storm water management, erosion and sediment control and waste management, developed by the Department of Water Affairs (DWA), and any other conditions which that Department may impose:■ Clean water (e.g. rainwater) must be kept clean and be routed to a natural watercourse by a system separate from the dirty water system. You must prevent clean water from running or spilling into dirty water systems.■ Dirty water must be collected and contained in a system separate from the clean water system.■ Dirty water must be prevented from spilling or seeping into clean water systems.■ The storm water management plan must apply for the entire life cycle of the activities and over different hydrological cycles (rainfall patterns).		
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		<ul style="list-style-type: none"> The statutory requirements of various regulatory agencies and the interests of stakeholders must be considered and incorporated into the storm water management plan. 		
Dust nuisance from stockpiled material and vehicles transporting the material	Low – Medium (negative)	<ul style="list-style-type: none"> The liberation of dust into the surrounding environment must be effectively controlled by the use of, inter alia, water spraying and/or other dust-allaying agents. The site manager must ensure continuous assessment of all dust suppression equipment to confirm its effectiveness in addressing dust suppression. Speed on the access roads must be limited to 40km/h to prevent the generation of excess dust. Roads must be sprayed with water or an environmentally friendly dust-allaying agent that contains no PCB's (e.g. DAS products) if dust is generated above acceptable limits. 	Low – Medium (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.

		<ul style="list-style-type: none"> All stockpiles must thoroughly be soaked to ensure dust suppression on the site. 		
Degradation of access roads	Medium (negative)	<ul style="list-style-type: none"> Newly constructed access roads (if applicable) must be adequately maintained so as to minimise dust, erosion or undue surface damage. Storm water should be diverted around the access roads to prevent erosion. Erosion of access road: Vehicular movement must be restricted to existing access routes to prevent crisscrossing of tracks through undisturbed areas. Rutting and erosion of the access road caused as a result of the activities should be repaired by the applicant. 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.
Noise nuisance caused by vehicles	Medium (negative)	<ul style="list-style-type: none"> The applicant must ensure that employees and staff conduct themselves in an acceptable manner while on site. 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.

		<ul style="list-style-type: none"> All vehicles must be equipped with silencers and maintained in a road worthy condition in terms of the Road Transport Act. 		
Overloading of trucks impacting road infrastructure	Medium (negative)	<ul style="list-style-type: none"> A weighing devise must be installed at the proposed area to prevent overloading. Proof of load weights must be filed and be available for auditing by relevant officials. 	Low – Medium (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.
Contamination of area with hydrocarbons or hazardous waste materials	Medium (negative)	<ul style="list-style-type: none"> No processing area or waste pile may be established within 100m of the edge of any river channel or other water bodies. Should any emergency vehicle repairs be done all spills must be disposed of in a 200 litre closed container/bin found inside the emergency service area. Any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and removed 	Low (negative))	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.

		<p>from the site, either for resale or for appropriate disposal at a recognised facility.</p> <ul style="list-style-type: none"> ■ Spills must be cleaned up immediately to the satisfaction of the Regional Manager by removing the spillage together with the polluted soil and by disposing of them at a recognised facility. ■ Suitable covered receptacles must be available at all times and conveniently placed for the disposal of waste. ■ Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., must be stored in a container with a closable lid at a collecting point and collected on a regular basis and disposed of at a recognised landfill site. Specific precautions should be taken to prevent refuse from being dumped on or in the vicinity of the area. ■ Biodegradable refuse generated must be handled as indicated above. 		
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Soil erosion	Medium (negative)	<ul style="list-style-type: none"> ■ The necessary measures will be put in place to limit erosion from the stockpiles and to divert storm water away. ■ Runoff water will be diverted around the site with trenches and contour structures to prevent erosion of the work areas. ■ Adequate drainage and erosion protection in the form of cut-off berms or trenches will be provided where necessary. ■ The area should be landscaped and profiled with acceptable contours and erosion control measures. 	Low - medium (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.
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3. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

Proposal

POTENTIAL IMPACTS:	SIGNIFICANCE RATING OF IMPACTS(POSITIVE OR NEGATIVE):	PROPOSED MITIGATION:	SIGNIFICANCE RATING OF IMPACTS AFTER MITIGATION:	RISK OF THE IMPACT AND MITIGATION NOT BEING IMPLEMENTED
Visual intrusion associated with the rehabilitation of the area	Low (negative)	<ul style="list-style-type: none"> ■ The site needs to have a neat appearance and be kept in good condition at all times. ■ Upon closure the site needs to be rehabilitated and sloped to insure that the visual impact on the aesthetic value of the area is kept to a minimum. ■ All activities must take place within the boundaries of the site 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented
Dust nuisance caused during sloping and landscaping activities	Low – Medium (negative)	<ul style="list-style-type: none"> ■ The liberation of dust into the surrounding environment must be effectively controlled by the use of, inter alia, water spraying and/or other dust-allaying agents. ■ The site manager must ensure continuous assessment of all dust suppression equipment to confirm its effectiveness in addressing dust suppression. 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.

		<ul style="list-style-type: none"> ■ Speed on the access roads must be limited to 40km/h to prevent the generation of excess dust. ■ Roads must be sprayed with water or an environmentally friendly dust-allaying agent that contains no PCB's (e.g. DAS products) if dust is generated above acceptable limits. ■ All stockpiles must thoroughly be soaked to ensure dust suppression on the site. 		
Noise nuisance caused by machinery	Low – Medium (negative)	<ul style="list-style-type: none"> ■ The applicant must ensure that employees and staff conduct themselves in an acceptable manner while on site. ■ All vehicles must be equipped with silencers and maintained in a road worthy condition in terms of the Road Transport Act. 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.
Contamination of area with hydrocarbons or hazardous waste materials	Low – Medium (negative)	<ul style="list-style-type: none"> ■ No processing area or waste pile may be established within 100m of the edge of any river channel or 	Low (negative)	The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.

		<p>other water bodies.</p> <ul style="list-style-type: none"> ■ Should any emergency vehicle repairs be done all spills must be disposed of in a 200 litre closed container/bin found inside the emergency service area. ■ Any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and removed from the site, either for resale or for appropriate disposal at a recognised facility. ■ Spills must be cleaned up immediately to the satisfaction of the Regional Manager by removing the spillage together with the polluted soil and by disposing of them at a recognised facility. ■ Suitable covered receptacles must be available at all times and conveniently placed for the disposal of waste. ■ Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., must be stored in a container with a closable lid at 		
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		<p>a collecting point and collected on a regular basis and disposed of at a recognised landfill site. Specific precautions should be taken to prevent refuse from being dumped on or in the vicinity of the stockpile area.</p> <ul style="list-style-type: none"> ■ Biodegradable refuse generated must be handled as indicated above. 		
<p>Infestation of the reinstated area with invader plant species.</p>	<p>Low – Medium (negative)</p>	<ul style="list-style-type: none"> ■ A weed and invader plant control management plan must be implemented at the site to ensure eradication of all listed invader plants in terms of Conservation of Agricultural Act (Act No 43 1983). ■ Management must take responsibility to control declared invader or exotic species on the rehabilitated areas. The following control methods can be used: <ul style="list-style-type: none"> ■ "The plants can be uprooted, felled or cut off and can be destroyed completely." ■ "The plants can be treated with an herbicide that is registered for use 	<p>Low (negative)</p>	<p>The significance rating of this impact will only increase (negative) if no mitigation measures are implemented.</p>

		<p>in connection therewith and in accordance with the directions for the use of such an herbicide.</p> <ul style="list-style-type: none">■ "The stockpiles needs to be kept free of weeds.		
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During the impact assessment process the following potential impacts were identified of each main activity in each phase. An initial significance rating was determined for each potential impact should the mitigation measures proposed in this document not be implemented on-site. The impact assessment process then continued in identifying mitigation measures to address the impact that the proposed activity may have on the surrounding environment.

The significance rating was again determined for each impact using the methodology as explained under vi) Methodology Used in Determining and Ranking the Significance. The impact ratings listed below was determined for each impact after bringing the proposed mitigation measures into consideration and therefore represents the final layout/activity proposal.

OPERATIONAL PHASE

Visual intrusion associated with the stockpiled material and vehicles transporting the material

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
1	3	1	1.6	3	4	3.5	5.8				

Work opportunities to local residents (Positive Impact)

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
4	4	5	4.6	5	5	5	23				

Weed and invader plant infestation of the area

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	3	1	2	2	2	2	4				

Loss of material due to ineffective storm water handling

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	3	1	2.3	2	2	2	4.6				

Dust nuisance from stockpiled material and vehicles transporting the material

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	2	1	1.6	3	3	3	5				

Degradation of access roads

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	2	1	2	2	2	2	4				

Noise nuisance caused by vehicles

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	2	1	2	2	3	2.5	5				

Overloading of trucks impacting road infrastructure

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	4	2	2.6	2	3	2.5	6.5				

Contamination of area with hydrocarbons or hazardous waste materials

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	2	1	1.6	2	3	2.5	4.2				

Soil erosion

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	5	1	2.6	2	5	3.5	9.1				

DECOMMISSIONING PHASE

Visual intrusion associated with the rehabilitation of the area

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	3	1	2.3	2	2	2	4.6				

Dust nuisance caused during sloping and landscaping activities

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	1	1	1.6	3	1	2	3.2				

Noise nuisance caused by machinery

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	1	1	1.3	2	2	2	2.6				

Contamination of area with hydrocarbons or hazardous waste materials

			Consequence				Significance				
Severity	Duration	Extent		Probability	Frequency	Likelihood	Low	Low-Medium	Medium	Medium-High	High
							1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	1	1	1.3	2	2	2	2.6				

Infestation of the area by weed and invader plants

			Consequence			Likelihood	Significance				
							Low	Low-Medium	Medium	Medium-High	High
Severity	Duration	Extent		Probability	Frequency		1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	1	1	1.6	3	1	2	3.2				

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

N/A

Where applicable indicate the detailed financial provisions for rehabilitation, closure and ongoing post decommissioning management for the negative environmental impacts.

N/A

4. CUMULATIVE IMPACTS

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

The cumulative impacts associated with the proposed area could be the following:

- Additional traffic on the local roads during operational phase,
- The influx of people into the area during operational phase,
- Increase in dust and noise generation.

Additional traffic on the local roads during operational phase.

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	4	2	2.6	2	5	3.5	9.1				

The influx of people into the area during operational phase.

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	4	2	2.6	2	5	3.5	9.1				

Additional water supply to the area.

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
2	4	1	2.3	2	4	3	6.9				

Increase in dust and noise generation.

			Consequence			Likelihood	Significance				
Severity	Duration	Extent		Probability	Frequency		Low	Low-Medium	Medium	Medium-High	High
						1 - 4.9	5 - 9.9	10 - 14.9	15 - 19.9	20 - 25	
Rating: Medium			Site Layout Alternative 1			Degree of Mitigation: None					
3	4	2	3	2	4	3	9				

5. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposal 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.

<u>ENVIRONMENTAL IMPACT STATEMENT</u>			
Proposed area			
<u>TYPE OF IMPACT</u>	<u>DURATION</u>	<u>LIKELIHOOD</u>	<u>SIGNIFICANCE</u>
<p><u>Operational phase:</u></p> <ul style="list-style-type: none"> ➤ Visual intrusion associated with the stockpiled material and vehicles transporting the material ➤ Work opportunities to local residents (Positive Impact) ➤ Weed and invader plant infestation of the area. ➤ Loss of material due to ineffective storm water handling. ➤ Dust nuisance from stockpiled material and vehicles transporting the material ➤ Degradation of access roads ➤ Noise nuisance caused by vehicles ➤ Overloading of trucks impacting road infrastructure ➤ Contamination of area with hydrocarbons or hazardous waste materials ➤ Soil Erosion 	<p>Duration of site operational phase (>1 month)</p>	<p>Possible</p> <p>Definite</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p>	<p>Low Medium Concern</p> <p>High (+)</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Medium Concern</p> <p>Low Concern</p> <p>Low Medium Concern</p> <p>Low Concern</p> <p>Low Medium Concern</p>
<p><u>Decommissioning and closure phase:</u></p> <ul style="list-style-type: none"> ➤ Visual intrusion associated with the rehabilitation of the area ➤ Dust nuisance caused during sloping and landscaping activities. ➤ Noise nuisance caused by machinery. ➤ Contamination of area with hydrocarbons or hazardous waste materials ➤ Infestation of the reinstated area with invader plant species. 	<p>Duration of decommissioning phase (±2 months)</p>	<p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p>	<p><u>SIGNIFICANCE</u></p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p>
<p><u>Cumulative Impacts</u></p> <ul style="list-style-type: none"> ➤ Additional traffic on the local roads during operational phase. ➤ The influx of people into the area during operational phase. 	<p>Duration of site operational phase (>1 month)</p>	<p>Low Possibility</p> <p>Low Possibility</p>	<p><u>SIGNIFICANCE</u></p> <p>Low Medium Concern</p> <p>Low Medium Concern</p>

ENVIRONMENTAL IMPACT STATEMENT

Proposed area

<ul style="list-style-type: none"> ■ Additional water supply to the area. ■ Increase in dust and noise generation. 		<p align="center">Low Possibility</p> <p align="center">Low Possibility</p>	<p align="center">Low Medium Concern</p> <p align="center">Low Medium Concern</p>
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6. IMPACT SUMMARY OF THE PROPOSAL OR PREFERRED ALTERNATIVE

For proposal:

Operational phase:

- Visual intrusion associated with the stockpiled material and vehicles transporting the material **Low Medium Concern**
- Work opportunities to local residents (Positive Impact) **High (+)**
- Loss of material due to ineffective storm water handling **Low Concern**
- Weed and invader plant infestation of the area **Low Concern**
- Dust nuisance from the stockpiled material and vehicles transporting the material **Low Medium Concern**
- Degradation of access roads **Low Concern**
- Noise nuisance caused by vehicles **Low Medium Concern**
- Overloading of trucks impacting road infrastructure **Low Medium Concern**
- Contamination of area with hydrocarbons or hazardous waste materials **Low Concern**
- Soil erosion **Low Medium Concern**

Decommissioning and closure phase:

- Visual intrusion associated with the rehabilitation of the area **Low Concern**
- Dust nuisance caused during sloping and landscaping activities **Low Concern**
- Noise nuisance caused by machinery **Low Concern**
- Contamination of area with hydrocarbons or hazardous waste materials **Low Concern**
- Infestation of the area by weed and invader plants **Low Concern**

Cumulative Impacts:

- Additional traffic on the local roads during operational phase **Low Medium Concern**

- The influx of people into the area during operational phase **Low Medium Concern**
- Additional water supply to the area **Low Medium Concern**
- Increase in dust and noise generation **Low Medium Concern**

Having assessed the significance of impacts of the proposal and alternative(s), please provide an overall summary and reasons for selecting the proposal or preferred alternative.

The applicant, Lomeza Mining Services (Pty) Ltd, intends to stockpile and sell current and future material as a commercial product on portion 240 of the Farm Zwartkop 356 JR, City of Tswane, Gauteng Province to various clients in the Road and Infrastructure industries.

The above-mentioned area is a site previously used for mining purposes, therefore the proposed area has already been disturbed. Thus, the applicant will not explore any other site alternatives or disturb any other area.

7. SPATIAL DEVELOPMENT TOOLS

Indicate the application of any spatial development tool protocols on the proposed development and the outcome thereof.

According to the Metropolitan Spatial Development Framework 2021 (MSDF), region 4 is one of the more affluent regions in Tshwane. Its strategic location along the border with Johannesburg means that it has progressively developed further towards the south as the growing attraction to the convenience and economic sense of its location has grabbed the attention of many investors. Highveld Technopark is one development that is testament to this.

Other predominant land uses of strategic significance include the Swartkop and Waterkloof military airports, Centurion CBD, Sunderland Ridge industrial area, N1 corridor (commercial development), Louwardia commercial and industrial area, and Samrand. The Gautrain station in Centurion has added impetus to development in and around the area.

Apart from infrastructure requirements and development trends, the low densities are also influenced by the underlying dolomite in the area. Vacant areas in the suburban environment have developed extensively over time. There still exists an opportunity to extend residential developments in the westerly direction (Monavoni and surrounds). Though well serviced, the provision of bulk services is lagging behind the rapid population growth. Existing infrastructure requires upgrading and maintenance.

In light of the above, the proposed development can be considered to align with the MSDF for the most part. The proposed activities will contribute to the upgrading and maintenance of the existing infrastructure by increasing the availability of the commercial product. Thus, the proposed development may be considered to align with the MSDF.

8. RECOMMENDATION OF THE 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 as bound by professional ethical standards and the code of conduct of EAPASA).

YES	
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If "NO", indicate the aspects that require further assessment 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:

The management objectives listed in the EMPr (attached as Appendix F) under Part 7 *Mechanisms for Monitoring Compliance with and Performance Assessment the Environmental Management Programme and Reporting thereon*, should be considered for inclusion in the environmental authorization which includes the following:

Visual characteristics

- Contain activities to the boundaries of the permitted area.
- Ensure that the site have a neat appearance and is kept in good condition at all times.
- Rehabilitate and level the site upon closure to ensure that the visual impact on the aesthetic value of the area is kept to a minimum.

Groundcover

- All invasive plant species that germinate within the boundary of the layer facility must be controlled in terms of NEM:BA, 2004 and CARA, 1983.
- Invasive plant species must be managed in accordance with the guidelines of the EMPr throughout the operation phase of the project.
- Management must take responsibility to control declared invader or exotic species on the rehabilitated areas. The following control methods can be used:
 - "The plants can be uprooted, felled or cut off and can be destroyed completely."
 - "The plants can be treated with an herbicide that is registered for use in connection therewith and in accordance with the directions for the use of such an herbicide."

Erosion & Stormwater monitoring:

- Divert runoff water with trenches and contour structures to prevent erosion of the work areas.
- Adequate drainage and erosion protection in the form of cut-off berms or trenches will be provided where necessary.
- Grade or landscape eroded areas.

Air Quality

- Control the liberation of dust into the surrounding environment by the use of; inter alia, straw, water spraying and/or environmentally friendly dust-allaying agents that contains no PCB's (e.g., DAS products).
- Ensure continuous assessment of all dust suppression equipment to confirm its effectiveness in addressing dust suppression.

- Limit speed on the haul roads to 40 km/h to prevent the generation of excess dust.
- Minimise areas devoid of vegetation.
- Flatten and cover loads to prevent spillage and windblown dust during transportation.
- Take weather conditions into consideration upon commencement of daily operations. Limit operations during very windy periods to reduce airborne dust and resulting impacts.
- Ensure dust generating activities comply with the National Dust Control Regulations, GN No R827 promulgated in terms of NEM:AQA, 2004 and ASTM D1739 (SANS 1137:2012).
- Implement best practice measures during the transporting of material from site to minimize potential dust impacts.

Monitoring of Roads

- Divert storm water around the access road to prevent erosion.
- Restrict vehicular movement to the existing access road to prevent crisscrossing of tracks through undisturbed areas.
- Repair rutting and erosion of the access road caused as a direct result of the activities.
- Prevent the overloading of the truck by installing a weighing device and file proof of load weights for auditing purposes.
- Speed on the access road must be limited to 40 km/h for operational/decommissioning vehicles.

Noise Ambiance

- All operational/decommissioning related vehicles must be equipped with silencers and maintained in a road worthy condition in terms of the National Road Traffic Act, 1996 (Act No 93 of 1996).
- Best practice measures shall be implemented in order to minimize potential noise impacts.
- The Applicant must ensure that employees, and staff conduct themselves in an acceptable manner while on site.
- No loud music may be allowed on site.

Waste monitoring

- Should any emergency vehicle repairs be done all spills must be disposed of in a 200 litre closed container/bin found inside the emergency service area. If emergency repairs are needed on equipment, drip trays must be present.
- The Applicant must have at least one spill kit available on site, and at least one employee must be trained in the use of it.
- Any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and

removed from the site, either for resale or for appropriate disposal at a recognized facility.

- Hazardous waste must be contained in a 200 litre closed container/bin to be removed by a registered hazardous waste handling contractor to a suitable registered landfill site.
- Should any spillage occur, the contaminated soil must, within the first hour of occurrence, be collected in a suitable receptacle and removed to the hazardous waste storage area where it must be incorporated into the existing waste handling system. Proof of safe disposal must be filed.
- All chemicals must be stored according to the storage instructions stipulated on the safety data sheet or at least within a bunded area, on an impermeable surface, that is access controlled.
- Drip trays must be used under all stationary machinery. The Applicant must ensure the drip trays are sealed and properly managed at all times.
- Suitable covered receptacles must be available at all times and conveniently placed for the disposal of waste.
- Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., must be stored in a container with a closable lid at a collecting point to be collected at least once a month and disposed of at a recognized landfill site. Specific precautions must be taken to prevent refuse from being dumped on or in the vicinity of the layer facility. Proof of disposal must be available for auditing purposes.
- Biodegradable refuse must be handled as indicated above.
- Re-use or recycling of waste products must be encouraged on site.
- Employees must make use of the ablution facility at the site.

Monitoring of health and safety aspects

- Workers must have access to the correct personal protective equipment (PPE) as required by law.
- All operations must comply with the OHSAS, 1993 (as amended).

Monitoring and audits of overall site compliance aspects

- Site Manager to ensure day-to-day compliance with the guidelines as stipulated in the EMPR.
- Compliance to be monitored by the independent Environmental Control Officer during the annual environmental audit.
- The holder of an environmental authorisation (EA) should submit an environmental audit report (EAR) to the relevant competent authority at intervals as indicated in the EA.

9. THE NEEDS AND DESIREBILITY OF THE PROPOSED DEVELOPMENT (as per notice 792 of 2012, or the updated version of this guideline)

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
How were ecological integrity considerations taken into account?	According to Mucina and Rutherford, 2006 the area is classified as Carletonville Dolomite Grassland (Gh 15). The natural vegetation of the surrounding area is a transitional type between typical grassland of the high inland plateau and the bushveld of the lower inland plateau. The following grass species dominate the area:	Desirable
How will this development disturb or enhance ecosystems and/or result in the loss or protection of biological diversity?	<ul style="list-style-type: none"> ■ Trachypogon spicatus Giant Spear Grass ■ Diheteropogon amplexans Broad-leaf Bluestern ■ Schizachyrium sanguineum Red Autumn Grass ■ Tristichya leucothrix Hairy Trident Grass ■ Panicum natalense Natal Panicum ■ Digitaria tricholaenoides Purple Finger Grass <p>Various forbs and succulents are also found in the area, with woody vegetation occurring as sheltered islands within the grassland.</p> <p>The vegetation of the property has to a large extent been altered due to the impact of the previous mining activities on the property. The areas left un-rehabilitated upon closure of the mining activities were largely invaded by weeds and invader plants. Pennisetum setaceum also known as Fountain Grass established on the disturbed areas with exotic trees such as <i>Eucalyptus</i> spp. (Gum Trees), <i>Ligustrum sinense</i> (Privet), <i>Melia azedarach</i> (Seringa) and <i>Schinus molle</i> (Pepper Tree) also growing on site. The indigenous vegetation of the area consists of grass representing the above mentioned as well as <i>Searsia lancea</i> (Karee Trees). Some Aloe species were also identified on site. Due to</p>	

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
	<p>the subsurface nature of bulbs the possibility of their occurrence cannot be excluded. If any finds are made such plants must be replanted to a demarcated area.</p> <p>The vegetation of the proposed area represents the vegetation as described above, if the Aloes are protected or moved to an area representing its current position the proposed activities should not have a negative impact on the vegetation of the area.</p> <p>It is proposed that the applicant remove as little vegetation as possible. This will lessen the area that needs to be managed for erosion and weed invasion purposes as well as reduce the impact that the proposed activity will have on the vegetation.</p>	
How will this development pollute and/or degrade the biophysical environment?	Due to the small nature of the project and the area being previously disturb, the proposed activities will have relatively little impact on the vegetation and fauna around it provided that the mitigation measures are adhered to. Therefore, should the applicant adhere to the mitigation measures proposed in this report it is believed that the impact on the biophysical environment is of acceptable significance.	Desirable
What waste will be generated by this development?	<p>The general waste to be generated at the site will mainly consist of paper, plastic, tin, and/or glass from the office area. All general waste will be contained in sealable refuse bins that will be placed at the office area until it is transported to a recognised general waste landfill site. A recognized contractor will service the chemical toilets and be responsible for the removal of the sewerage to a registered sewerage handling facility.</p> <p>As mentioned earlier, hazardous waste may result from accidental spillages/breakdowns. Such contaminated areas will immediately (within two hours of occurrence) be cleaned and the contaminated soil will be contained in a designated hazardous waste container until it is removed from site by a registered hazardous waste handling contractor to an approved facility. No waste will be disposed of, buried, burned or treated on the site.</p>	Highly Desirable
How will this development disturb or enhance	The natural topography of the proposed area comprises of slightly undulating plains dissected by prominent rocky chert ridges. The	Desirable

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
landscapes and/or sites that constitute the nation's cultural heritage?	<p>vegetation consists of species-rich grasslands forming a complex mosaic pattern dominated by many species. The elevation loss over the entire proposed footprint to be 1444m over 820 meters.</p> <p>Due to the disturbed nature of the site no sites of archaeological or cultural importance were identified during the site inspection. Consultation with the interested and affected parties also did not identify any potential area of concern. As the proposed activity will entail the stockpiling of material, the activity is not anticipated to have a negative impact on any archaeological or cultural aspects. The war graves found in the vicinity of Alaric road is more than a kilometre away and will not be affected by the proposed activity.</p>	
How will this development use and/or impact on non-renewable natural resources?	The nature of the activity will result in a demand increase of the stockpile material, which will result in the use of existing stockpiled material without having to open a new mine and disturb natural areas. This will increase the availability of the product to various clients in the Road and Infrastructure industries thereby generating income and directly contributing to the economy of the area.	Desirable
How will this development use and/or impact on renewable natural resources and the ecosystem of which they are part?	It is proposed that approximately 30 000 litres of water will be needed per day during the dry months to manage dust emissions from the proposed operation. As mentioned earlier, the applicant will strive to manage dust generation through alternative suppression methods to restrict water use to the absolute minimum. Presently, it is proposed that water will be bought and transported to site. The applicant will be encouraged to consider the use of non-potable water for the activities. The use of solar power should also be considered as an alternative power source to the offices and/or workshops.	Desirable
How were a risk-averse and cautious approach applied in terms of ecological impacts?	If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that ecological impacts should be fully mitigated.	Desirable
How will the ecological impacts resulting from this development impact on people's environmental right?	Should the activities be approved the potential visual-, dust-, and noise impacts associated with the proposed activity will be of low-medium significance. If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that no environmental rights of the surrounding residents/public will be affected by the ecological impacts associated with the proposed activity.	Highly Desirable

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
Describe the linkages and dependencies between human wellbeing, livelihoods and ecosystem services applicable to the area in question and how the development's ecological impacts will result in socio-economic impacts.	If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that the activities will not affect the physical, psychological, cultural or social needs of the community in a negative manner nor will it impact negatively on the socio-economic status of the area.	Desirable
Based on all of the above, how will this development positively or negatively impact on ecological integrity objectives/targets/considerations of the area?		
Considering the need to secure ecological integrity and a healthy biophysical environment, describe how the alternatives identified, resulted in the selection of the "best practicable environmental option" in terms of ecological considerations		

2. PROMOTING JUSTIFIABLE ECONOMIC AND SOCIAL DEVELOPMENT

What is the socio-economic context of the area?

Question	Response	Level of Desirability
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1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
What is the socio-economic context of the area?	<i>Please refer to Section B (9) - Socio-economic Environment.</i>	Highly Desirable
Considering the socio-economic context, what will the socio-economic impacts be of the development, and specifically also on the socio-economic objectives of the area?	Should this application be approved, the applicant will be able to, <ul style="list-style-type: none"> ■ Provide employment opportunities. ■ The local community/businesses will benefit from the availability of the commercial product in the Road and Infrastructure industries. ■ It will also diversify the income of the property as well as potential employees and clients.. 	Highly Desirable
How will this development address the specific physical, psychological, developmental, cultural and social needs and interests of the relevant communities?	If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that the proposed activities will not affect the physical, psychological, cultural or social needs of the community in a negative manner nor will it impact negatively on the socio-economic status of the area.	Highly Desirable
Will the development result in equitable impact distribution, in the short- and long-term?	The activities propose to operate in a socially and economically sustainable manner during both the short- and long term.	Highly Desirable
In terms of location, describe how the placement of the proposed development will contribute to the area.	As mentioned above the proposed area is over a disturbed area previously used for mining purposes. This was deemed the only viable site alternative for the applicant due to it being an existing stockpile area.	Highly Desirable
How were a risk-averse and cautious approach applied	No negative socio-economic impacts could, at this stage, be identified that cannot be managed through the implementation of mitigation	Highly Desirable

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
in terms of socio-economic impacts?	measures.	
How will the socio-economic impacts resulting from this development impact on people's environmental right?	The activity may have an impact on the visual characteristics of the surrounding environment and may potentially affect air quality and possibly the noise ambiance of the study area. However, should the activity be approved the potential visual-, dust-, and noise impacts associated with the proposed activity will be of low significance. If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that no environmental rights of the surrounding residents/public will be affected by the socio-economic impacts associated with the proposed activity	Highly Desirable
Considering the linkages and dependencies between human wellbeing, livelihoods and ecosystem services, describe the linkages and dependencies applicable to the area in question and how the development's socio-economic impacts will result in ecological impacts?	As mentioned above should the proposed activity be approved the potential visual-, dust-, and noise impacts associated with the proposed activity will be of low significance. If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that no environmental rights of the surrounding residents/public will be affected by the socio-economic impacts associated with the proposed activity.	Highly Desirable
What measures were taken to pursue the selection of the "best practicable environmental option" in terms of socio-economic considerations?	<i>Please refer to section B (2) - Impacts that may result from the construction and operational Phase</i>	Highly Desirable
What measures were taken to pursue environmental justice so that adverse environmental impacts shall not be distributed in such a manner as to unfairly discriminate against any person, particularly vulnerable and disadvantaged persons?		

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
<p>What measures were taken to pursue equitable access to environmental resources, benefits and services to meet basic human needs and ensure human wellbeing, and what special measures were taken to ensure access thereto by categories of persons disadvantaged by unfair discrimination?</p>	<p>The site will (if approved) operate in accordance with, amongst others, the following:</p> <ul style="list-style-type: none"> ■ Financial Provision Regulations, 2015 – to ensure compliance in terms of rehabilitation; ■ NEM:AQA, 2004 – to ensure air quality related compliance; ■ NEM:BA, 2004 – to ensure biodiversity related compliance; ■ NEM:WA, 2008 – to ensure waste related compliance; ■ NEMA, 1998 (as amended) – to ensure environmental related compliance. 	<p>Highly Desirable</p>
<p>What measures were taken to ensure that the responsibility for the environmental health and safety consequences of the development has been addressed throughout the development's life cycle?</p>		
<p>Considering the interests, needs and values of all the interested and affected parties, describe how the development will allow for opportunities for all the segments of the community that is consistent with the priority needs of the local area.</p>	<p>As mentioned earlier, should this application be approved, the applicant will be able to,</p> <ul style="list-style-type: none"> ■ Provide employment opportunities. ■ The local community/businesses will benefit from diversification of resources which will result in competitive product costs. ■ It will also diversify the income of the property as well as potential employees and clients. 	<p>Highly Desirable</p>
<p>What measures have been taken to ensure that current and/or future workers will be informed of work that potentially might be harmful to human health or</p>	<p>The operation of the stockpile site will be in accordance with the specifications of the relevant acts. Site management will have daily discussions with the operators as well as contractors regarding the work to be performed and the environment in which the work will take</p>	<p>Highly Desirable</p>

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
the environment or of dangers associated with the work, and what measures have been taken to ensure that the right of workers to refuse such work will be respected and protected.	place. Grievances/concerns can be lodged during the daily site meetings.	
Describe how the development will impact on job creation in terms of, amongst other aspects?	<p>As mentioned earlier, should this application be approved, the applicant will be able to,</p> <ul style="list-style-type: none"> ■ Provide employment opportunities. ■ The local community/businesses will benefit from the availability of the commercial product in the Road and Infrastructure industries. ■ It will also diversify the income of the property as well as potential employees and clients. 	Highly Desirable
What measures were taken to ensure that the environment will be held in public trust for the people, that the beneficial use of environmental resources will serve the public interest, and that the environment will be protected as the people's common heritage.	Should this application be approved the activities will operate under a valid Environmental Authorization issued by the GDARD, compliance of the site with the approval conditions can be reported on as per the departmental specifications and also be managed in accordance with all the environmental related legislations.	Highly Desirable
Are the mitigation measures proposed realistic and what long-term environmental legacy and managed burden will be left.	It is believed that the mitigation measures proposed in this document is realistic and can be implemented (when needed) by the proposed activities. If the proposed mitigation measures, as proposed in this document, is implemented, the residual impact on the environment is of low significance.	Highly Desirable

1. SECURING ECOLOGICAL SUSTAINABLE DEVELOPMENT AND USE OF NATURAL RESOURCES

How will this development impact on the ecological integrity of the area?

Question	Response	Level of Desirability
<p>What measures were taken to ensure that the costs of remedying pollution, environmental degradation and consequent adverse health effects and of preventing, controlling or minimising further pollution environmental damage or adverse health effects will be paid for by those responsible for harming the environment.</p>	<p>This site has previously been disturbed and no new area will be opened. If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that the activities will not cause adverse health effects and environmental damage should this application be approved, seeing that there are no other rated activities in the vicinity. The activities will operate under a valid Environmental Authorization issued by the GDARD, compliance of the site with the approval conditions can be reported on as per the departmental specifications and also be managed in accordance with all the environmental related legislations.</p>	<p>Highly Desirable</p>
<p>Considering the need to secure ecological integrity and a healthy bio-physical environment, describe how the alternatives identified, resulted in the selection of the best practicable environmental option in terms of socio-economic considerations</p>	<p>The area is a site previously used for mining purposes; therefore the proposed area has already been disturbed. Thus, the applicant will not explore any other site alternatives or disturb any other area.</p>	<p>Highly Desirable</p>
<p>Describe the positive and negative cumulative socio-economic impacts bearing in mind the size, scale, scope and nature of the project in relation to its location and other planned developments in the area.</p>	<p>If the proposed mitigation measures, as proposed in this document, is implemented, it is believed that the activities will not cause a cumulative socio-economic impact should this application be approved, seeing that there are no other rated activities in the vicinity.</p>	<p>Highly Desirable</p>

10. THE PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED
(CONSIDER WHEN THE ACITIVTY IS EXPECTED TO BE CONCLUDED)

20 years

11. ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) (must include post construction monitoring requirements and when these will be concluded.)

If the EAP answers "Yes" to Point 7 above then an EMP is to be attached to this report as an Appendix

EMPr attached

SECTION F: APPENDIXES

The following appendixes must be attached as appropriate (this list is inclusive, but not exhaustive):

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix A: Site plan(s) – *(must include a scaled layout plan of the proposed activities overlain on the site sensitivities indicating areas to be avoided including buffers)* – **Attached as Appendix A**

Appendix B: Photographs – **Attached as Appendix B**

Appendix C: Facility illustration(s) **N/A Layout plan attached as Appendix C**

Appendix D: Route position information **N/A**

Appendix E: Public participation information – **Attached as Appendix D**

Appendix F: Water use license(s) authorisation, SAHRA information, service letters from municipalities, water supply information. **N/A**

(As mentioned earlier, the applicant will strive to manage water use to the absolute minimum. Presently, it is proposed that water will be bought and transported to site. The contractor will be encouraged to consider the use of non-potable water for the activities. The use of solar power should also be considered as an alternative power source to the offices and/or workshops.)

Appendix G: Specialist reports **N/A - Due to the existing disturbances on site, no further specialists were required.**

Appendix H: EMPr – **Attached as Appendix F**

Appendix I: Other information **Appendix G - CV and Experience Record of EAP**

CHECKLIST

To ensure that all information that the Department needs to be able to process this application, please check that:

- ✓Where requested, supporting documentation has been attached;
- ✓All relevant sections of the form have been completed.

APPENDIX A

SITE PLAN



APPENDIX B

SITE PHOTOGRAPHS



APPENDIX C

LAYOUT MAP



APPENDIX D1
PROOF OF SITE NOTICE



APPENDIX D2

**WRITTEN NOTICES ISSUED AS
REQUIRED IN TERMS OF THE
REGULATIONS**



APPENDIX D3
PROOF OF NEWSPAPER
ADVERTISEMENTS



APPENDIX D4
COMMUNICATIONS TO AND FROM
INTERESTED AND AFFECTED
PARTIES



APPENDIX D5

COMMENTS AND RESPONSE REPORT



APPENDIX D6

COPY OF THE REGISTER OF I&APS



APPENDIX E

(As mentioned earlier, the applicant will strive to manage water use to the absolute minimum. Presently, it is proposed that water will be bought and transported to site. The contractor will be encouraged to consider the use of non-potable water for the activities. The use of solar power should also be considered as an alternative power source to the offices and/or workshops.

The general waste to be generated at the site will mainly consist of paper, plastic, tin, and/or glass from the office area. All general waste will be contained in sealable refuse bins that will be placed at the office area until it is transported to a recognised general waste landfill site.

A recognized contractor will service the chemical toilets and be responsible for the removal of the sewerage to a registered sewerage handling facility.

Hazardous waste may result from accidental spillages/breakdowns. Such contaminated areas will immediately (within two hours of occurrence) be cleaned and the contaminated soil will be contained in a designated hazardous waste container until it is removed from site by a registered hazardous waste handling contractor to an approved facility. No waste will be disposed of, buried, burned or treated on the site.)



APPENDIX F
ENVIRONMENTAL MANAGEMENT
PROGRAMME REPORT



APPENDIX G
CV AND EXPERIENCE RECORD OF
EAP

