



# mineral resources & energy

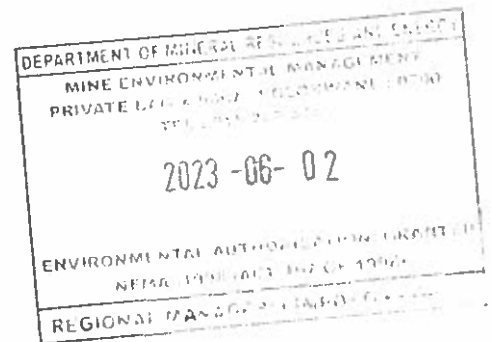
Department  
Minerals Resources and Energy  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 9467, Polokwane, 0700, Tel: 015 287 4700, Fax: 086 710 1045  
DMR Building, 101 Dorp Street, Polokwane, 0699

**Enquiries:** Ms. Mphaphuli R.R. Ref: LP30/5/1/2/3/2/1 (182) EM  
**E-Mail Address:** Reshoketswe.Mphaphuli@dmre.gov.za  
**Sub-Directorate:** Mine Environmental Management

**BY HAND**

General Manger  
Anglo American Platinum Rustenburg Platinum Mines (Pty) Ltd-Mototolo  
PostNet 45  
Private Bag X20097  
Lydenburg  
1120



For attention: Johan van Tonder  
CC: Corrie Retief

E-mail: johan.vantonder@angloamerican.co.za  
E-mail: Corrie.Retief@cesnet.co.za

**ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AS AMENDED (NEMA) AND THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGULATIONS, 2014 FOR MINING ASSOCIATED INFRASTRUCTURAL ACTIVITIES ON THE REMAINING EXTENT & PORTION 0 OF THE FARM MALOKELA 370 KT AND REMAINING EXTENT & PORTION 7 OF THE FARM THORNCLIFFE 374 KT WITHIN SEKHUKHUNE DISTRICT MUNICIPALITY: LIMPOPO REGION.**

With reference to the abovementioned application, please be advised that the Department has decided to **grant** environmental authorisation in terms of National Environmental Management Act (Act 107 of 1998). The environmental authorisation and reasons for the decision are attached herewith.

In terms of regulation 4 (2) of the Environmental Impact Assessment Regulations of 2014, you are instructed to notify all registered interested and affected parties, in writing within 14 (Fourteen) calendar days, from the date of the Department's decision in respect of your application and the relevant provisions regarding the lodgement of appeal must be provided for in terms of the National Appeal Regulations of 2014.

Should you wish to appeal any aspect of the decision, you must submit the appeal to the Minister of Forestry, Fisheries and the Environment and a copy of such appeal to the Department of Mineral Resources and Energy (Limpopo Regional Office), within 20 days from the date of notification, and such appeal must be lodged as prescribed in by Chapter 2 of the National Appeal Regulations of 2014, by means of the methods as per prescribed below:

**Appeal to the Department of Forestry, Fisheries, and the Environment**

**Attention** : Directorate Appeals and Legal Review  
**Email** : [appeals@dfre.gov.za](mailto:appeals@dfre.gov.za)  
**By post** : Private Bag X 447, **PRETORIA**, 0001  
**By hand** : Environmental House, Corner Steve Biko and Soutpansberg Street, Arcadia, **Pretoria**, 0083

**Copy of the lodged appeal to the Department of Mineral Resources and Energy**

**Attention** : Regional Manager: Limpopo Region  
**By facsimile** : (015) 297 7230  
**E-mail** : [Thivhulawi.Kolani@dmre.gov.za](mailto:Thivhulawi.Kolani@dmre.gov.za)  
**By post** : Private Bag X 9467, **POLOKWANE**, 0700  
**By hand** : DMR Building, 101 Dorp Street, **Polokwane**, 0699

Should you decide to appeal, you must comply with the National Appeal Regulation of 2014 in relation to notification of all registered interested and affected, and a copy of the official appeal form can be obtained from the Department of Forestry, Fisheries and the Environment.

Yours faithfully,

*M.M. Malapane*

**CHIEF DIRECTOR: MINERAL AND PETROLEUM REGULATION  
NORTHERN REGIONS  
DATE: 02.06.2023**





# mineral resources & energy

Department  
Minerals Resources and Energy  
REPUBLIC OF SOUTH AFRICA

Private Bag X 9467, Polokwane, 0700, Tel: 015 287 4700, Fax: 086 710 1045  
DMR Building, 101 Dorp Street, Polokwane, 0699

## ENVIRONMENTAL AUTHORISATION

**Reference number:** LP30/5/1/2/3/2/1 (182) EM

**Last amended:** First issue

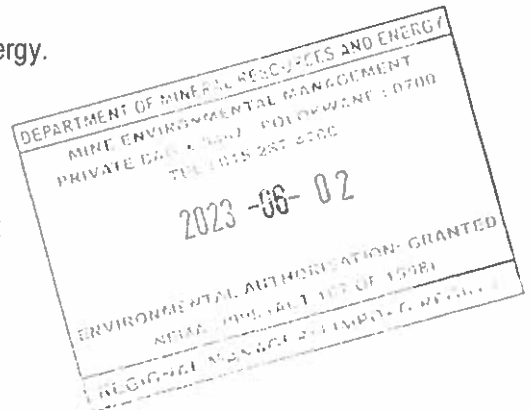
**Holder of authorisation:** Anglo American Platinum (Rustenburg Platinum Mines (Pty) Ltd-Mototolo)

**Location of activity:** On remaining extent & portion 0 of the Farm Malokela 370 KT and remaining extent & portion 7 of the Farm Thorncliffe 374 KT within Sekhukhune District Municipality: Limpopo Region.

## DECISION

### ACRONYMS

<b>NEMA:</b>	The National Environmental Management Act, 1998 (Act 107 of 1998), as amended
<b>EIA:</b>	Environmental Impact Assessment.
<b>DEPARTMENT:</b>	Department of Mineral Resources and Energy.
<b>EA:</b>	Environmental Authorisation.
<b>IEA</b>	Integrated Environmental Authorisation.
<b>EMPr:</b>	Environmental Management Programme
<b>BAR:</b>	Basic Assessment Report
<b>S&amp;EIR:</b>	Scoping and Environmental Impact Report
<b>I&amp;AP:</b>	Interested and Affected Parties
<b>ECO:</b>	Environmental Control Officer
<b>LIHRA:</b>	Limpopo Heritage Resource Agency
<b>SAHRA:</b>	South African Heritage Resources Agency
<b>EIA REGULATIONS:</b>	EIA Regulations, 2014
<b>MPRDA:</b>	Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002), as amended
<b>NEMA:WA:</b>	National Environmental Management: Waste Act, 2008 (Act 59 of 2008), as amended.



The Department is satisfied, on the basis of information availed to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake **NEMA EIA** listed activity (ies) specified below. Details regarding the basis on which the Department reached this granting decision are set out in **Annexure "1 and 2"** of this environmental authorisation.

## ACTIVITY APPLIED FOR

By virtue of the powers conferred on it by NEMA, the Department hereby Grant an application for EA by **Anglo American Platinum (Rustenburg Platinum Mines (Pty) Ltd-Mototolo)** with the following contact details –

PostNet 45  
Private Bag X20097  
Lydenburg  
1120

**Tel No:** 082 943 1297

to undertake the following activities listed in the NEMA EIA Regulation.

### **NEMA: LISTED ACTIVITIES:**

#### **Listed in the EIA Regulations R. 983 of 2014 as: -**

**Activity 11** "The development of facilities or infrastructure for the transmission and distribution of electricity—  
(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or  
(ii) inside urban areas or industrial complexes with a capacity of 275 kilovolts or more;

excluding the development of bypass infrastructure for the transmission and distribution of electricity where such bypass infrastructure is —

- (a) temporarily required to allow for maintenance of existing infrastructure;
- (b) 2 kilometres or shorter in length;
- (c) within an existing transmission line servitude; and
- (d) will be removed within 18 months of the commencement of development."

**Activity 14** "The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres."

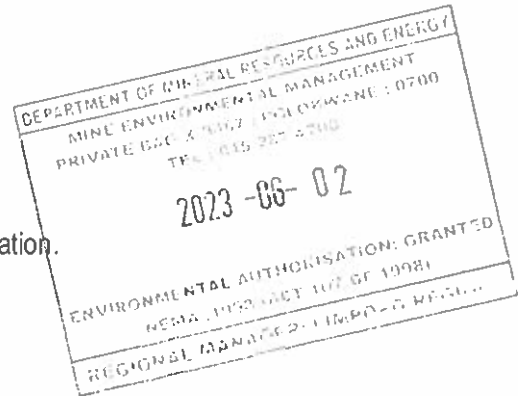
**Activity 27** "The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for—

- (i) the undertaking of a linear activity; or
- (ii) maintenance purposes undertaken in accordance with a maintenance management plan."

#### **Listed in the EIA Regulations R. 985 of 2014 as:-**

**Activity 4** "The development of a road wider than 4 metres with a reserve less than 13,5 metres."

**Activity 10** "The development and related operation of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic metres."



**Activity 12** "The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan."

**Activity 14** "The development of—

i) dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10 square metres; or

(ii) infrastructure or structures with a physical footprint of 10 square metres or more;

where such development occurs—

(a) within a watercourse;

(b) in front of a development setback; or

(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse; excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour."

The granting of this EA is subject to the conditions set out below (site specific) and in **Annexure 2** (Departmental standard conditions). The **BAR** attached as part of reports for the above development submitted as part of the application for an EA is hereby approved and must be adhered to throughout the life cycle of the operation.

#### Detailed specifications of the activity are as follows:

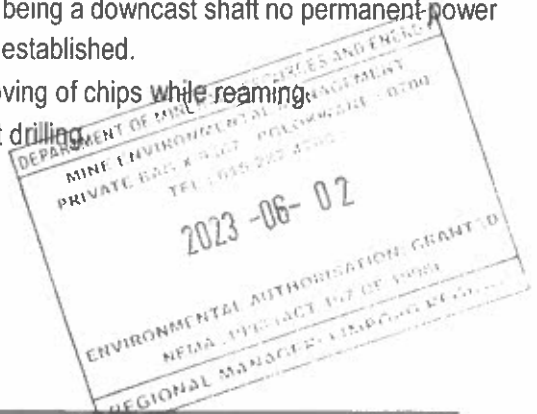
##### **Ventilation shafts and emulsion borehole**

The proposed development will include the construction of one downcast shaft, two exhaust (upcast) shafts and an emulsion borehole. The following details are currently available for the proposed ventilation shafts and emulsion borehole.

The proposed **Downcast Shaft** will be located at the western extent of the project area, approximately 2.2 km west of the main Borwa Shaft. The technical report from Bluhm Burton Engineering Pty Ltd estimated the position of the downcast shaft to be at the bottom of current excavations below South Strike 17. This shaft needs to be moved into the laterals to lessen the impact on the mine operation and traffic management plan and to get the most favourable position on surface to make the drilling operation safer and easier.

The following additional requirements are noted for the Downcast Shaft:

- All power will be supplied via Diesel generator, due to it only being a downcast shaft no permanent power is required. Polluted water control processes will need to be established.
- Preparation of underground site for access control and removing of chips while reaming.
- Site establishment by Raise bore drilling contractor and start drilling.
  - Area must be bunded where drill will be positioned.
  - Drill pilot hole for raise bore.
  - Drill hole for communication to underground.



The proposed **North Exhaust (Upcast) Shaft** will be located to the north-east of the Downcast Shaft, approximately 1.4 km west of the main Borwa Shaft (Figure 3.4). After the completion of the raise boring at the Downcast Shaft, raise boring will move over to the Northern Exhaust shaft. The whole process will be the same as for the downcast shaft but after completion of the drilling operation, ventilation structures will be erected with ventilation fans over the excavation. After completion the ventilation fans will be commissioned. The proposed **South Exhaust (Upcast) Shaft** will be located to the south-east of the Downcast Shaft, approximately 2.1 km south-west of the main Borwa Shaft (Figure 3.5). After the completion of the raise boring at the North Exhaust shaft, raise boring will move over to the Southern Exhaust shaft. After the completion of the raise boring at the Downcast Shaft, raise boring will move over to the Northern Upcast Shaft, then to the Southern Upcast Shaft.

The proposed **Emulsion Borehole** will be located en route to the Downcast Shaft, approximately 1.5 km west of the main Borwa Shaft. This point will be required to be accessed by a SASOL Emulsion tanker every 2 -3 days. Emulsion will be gravity fed down a hole at this point into the workings below. It will also be constructed at the same time as the access roads to ventilations shafts.

An **existing ventilation shaft** occurs within the project area, located approximately 1.1 km south-west of the main Borwa Shaft.

### Borrow pits

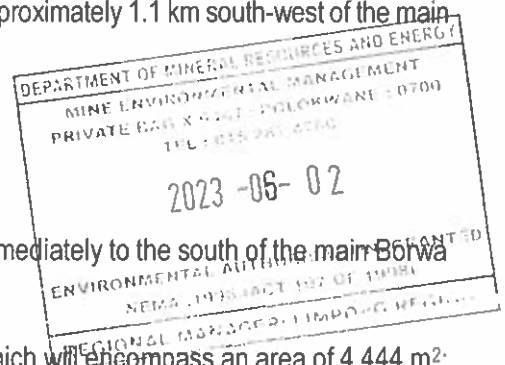
Construction materials will be sourced from six borrow pits, namely:

- **Borrow pit 01**, located near the entrance to the project area, immediately to the south of the main Borwa Shaft mining area, which will encompass an area of 10 086 m<sup>2</sup>,
- **Borrow pit 02**, located near the Northern Upcast Vent Shaft, which will encompass an area of 4 444 m<sup>2</sup>;
- **Borrow pit 03**, located near the emulsion borehole, which will encompass an area of 3 168 m<sup>2</sup>,
- **Borrow pit 04 and borrow pit 05**, located en route to the Southern Upcast Vent Shaft, which will encompass areas of 2 037 m<sup>2</sup> and 3 135 m<sup>2</sup>, respectively; and
- **Borrow pit 06**, located near the Southern Upcast Vent Shaft, which will encompass an area of 4 045 m<sup>2</sup>.

### Access roads

The proposed development will require the upgrading of the existing access roads on site, given their current eroded condition, as well as the generally rugged terrain of the project area. Upgraded access roads will be required to each ventilation shaft / emulsion hole and will be included in the applications. Access will be required to enable construction of the ventilation shaft and for future inspections. Road will need to be designed to accommodate environmental and physical vehicle requirements to lessen effect on the environment and enable safe use of the road by vehicles. requirements to lessen effect on the environment and enable safe use of the road by vehicles requirements to lessen effect on the environment and enable safe use of the road by vehicles.

The proposed upgrades need to accommodate the following:



- The raise bore drill and ancillary equipment need to go up and down on the road;
- The roads are to be used by water trucks and diesel tankers to supply water for drilling operations and diesel for power generator requirements, respectively;
- Concrete trucks need to use the road to supply concrete for civil work;
- Other materials required for drilling operation and construction need to be to the sites via the proposed roads; and
- Although not a direct requirement for the project, but for cost savings, the road needs to accommodate the emulsion tanker and allow pumping of emulsion directly underground to a new transfer station underground through a planned hole on surface.

**Route 1** runs westwards from the site entrance, splitting towards each of the proposed ventilation shafts and emulsion borehole sites. Access to the Downcast Shaft will be achieved via the proposed upgrade of **Routes 3 and 5-1**. The designs for **Route 2, 4 and 5-2** will include the road to the finalised position of the Northern Upcast shaft, Southern Upcast shaft and Emulsion borehole, respectively. All access roads will be built at the same time.

### Powerlines

The proposed development will require the construction of the 22 kV switching station (constitute the ability to isolate / energize electrical circuit of a specific line) and three new unshielded 11 kV pole mounted Fox overhead feeder lines (constructed to 33 kV specifications) with three 630 kVA 11 / 0.55 kV ONAN Dyn11 Type B minisub stations feeding Borwa, including:

- The Ventilation Line South (Borwa-South), 2 600 m in length;
- The Ventilation Line North (Borwa-North), 2 000 m in length; and
- The Downcast Line, 1200 m in length.

### Construction site camp

The proposed development will require the establishment of a site camp, within or near the project area, with the following basic services:

- Ablution facilities
- Tanks for water for drilling operations
- Site offices
- Security and access control
- Illumination, etc.



## EA SITE SPECIFIC CONDITIONS

- All necessary permitting and authorisations must be obtained prior to the commencement of any construction activities.
- An Erosion Management Plan/ Method Statement must be developed prior to the commencement of construction activities in order to mitigate the unnecessary loss of topsoil and runoff.
- An Alien Invasive Vegetation Management Plan must be compiled, implemented and adhered to during all phases of the proposed development.
- The approved Rehabilitation Plan should be implemented and adhered to. Only indigenous plant species typical of the local vegetation should be used for rehabilitation purposes.
- An ECO must be appointed for the duration of the proposed development.





## ANNEXURE 1: REASONS FOR THE DECISION

### 1. Background

Rustenburg Platinum Mines (Pty) Ltd-Mototolo submitted an application for EA for activities listed in the EIA Regulations of 2014 as:

#### Listed in the EIA Regulations R. 983 of 2014 as amended: -

**Activity 11** "The development of facilities or infrastructure for the transmission and distribution of electricity—  
(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or  
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**Activity 14** "The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres."

**Activity 27** "The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for—

- (i) the undertaking of a linear activity; or
- (ii) maintenance purposes undertaken in accordance with a maintenance management plan."

#### Listed in the EIA Regulations R. 985 of 2014 as:-

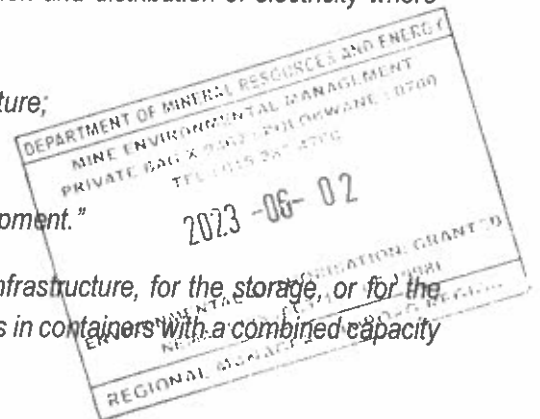
**Activity 4** "The development of a road wider than 4 metres with a reserve less than 13,5 metres."

**Activity 10** "The development and related operation of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic metres."

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where such development occurs—

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- (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse; excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.”

## 2. Information considered in making the decision

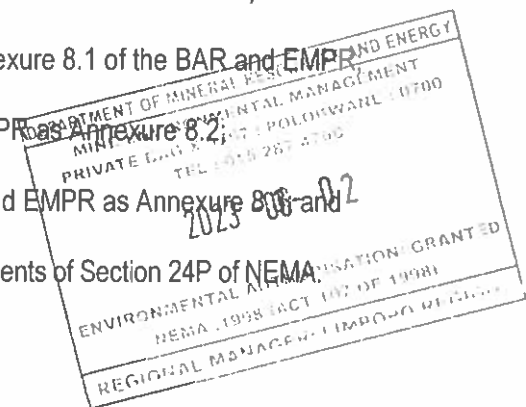
In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The information contained in the application form received by the Department on 30 August 2022;
- b) The information contained in the BAR received by the Department on 24 October 2022, an addendum on 16 May 2023 and a revised BAR on 19 May 2023;
- c) The objectives and requirements of the applicable and relevant legislation, policies and guidelines and the EIA Regulations of 2010;
- d) Public Participation Process (PPP) attached as Annexure 9 of the BAR and EMPR;
- e) Terrestrial Biodiversity assessment Report attached as Annexure 8.1 of the BAR and EMPR;
- f) River and Wetland Ecosystem attached to the BAR and EMPR as Annexure 8.2;
- g) Heritage Impact Assessment Report attached to the BAR and EMPR as Annexure 8.3 and 8.4;
- h) Financial Provision was submitted to comply with the requirements of Section 24P of NEMA.

## 3. Key factors considered in making the decision.

All the information presented to the Department was taken into account upon the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance are set out below.

- a) A sufficient Public Participation Process (PPP) was undertaken, and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations R982 of 2014 for public involvement,
- b) The environmental impacts associated with the proposed activity will be addressed by the proposed mitigation measures outlined in the BAR and EMPr received on the 24<sup>th</sup> of October 2022 which was compiled by Mr. Alex Ndlovu of CES Environmental and Social Advisory Services Pty Ltd,
- c) Terrestrial Biodiversity assessment Report dated March 2022 compiled by Aidan Gouws of CES Environmental and Social Advisory Services recommended that all mitigation measures must be implemented throughout the life cycle of the proposed activities. The offset area must be maintained and monitored throughout the phases of by the ECO,
- d) River and Wetland Ecosystem date July 2022 compiled by compiled by Aidan Gouws of CES Environmental and Social Advisory Services and Ryan Edwards of Verdant Environmental concluded that implementing the recommended mitigation measures will reduce impacts from low to very low significance for all impacts,



- e) Heritage Impact Assessment Report dated 20 February 2022 compiled by Nelius Kruger of Exigo Sustainability indicated that the general monitoring of the development progress by an ECO or by the heritage specialist is recommended for all stages of the project, and
- f) Financial Provision was submitted to comply with the requirements of Section 24P of NEMA.

#### 4. Findings

After consideration of the information and factors listed above, the Department made the following findings –

- a) The potential impacts on the proposed site were clearly investigated and mitigation measures outlined.
- b) Public Participation Process complied with Chapter 6 of the EIA Regulations R.982 of 2014. The PPP included, *inter-alia*, the following:
  - A comprehensive Interested and Affected Parties (I&AP) register was compiled,
  - An advertisement was placed in the newspaper “Steelburger News, Sekhukhune Times and Platinum News”,
  - Formal notifications sent out via email and postal mail to I&APs,
  - Site notices placed at the entrance of Mototolo Mine,
  - Notices and background information were sent to stakeholders and the registered interested and affected parties,
  - Public online session (meeting) held on the 13<sup>th</sup> of September 2022.



## ANNEXURE 2

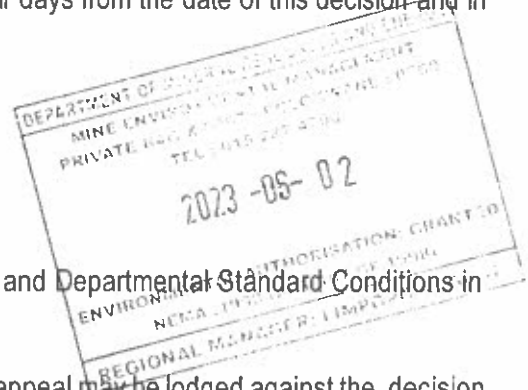
### DEPARTMENTAL STANDARD CONDITIONS

#### 1. SCOPE OF AUTHORISATION

- 1.1. The holder of EA shall be responsible for ensuring compliance with the conditions contained in the EA. This includes any person acting on the holder's behalf, including but not limited to an agent, servant, contractor, subcontractor, employee, consultant or any person rendering a service to the holder of IEA.
- 1.2. Any changes to, or deviation from the project description set out in this EA must be approved in writing by this Department before such changes or deviation may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviation and it may be necessary for the holder of the EA to apply for further authorisation in terms of the EIA Regulations.
- 1.3. The activities, which are authorised, may only be carried out at the property (ies) indicated in the EA and or on the approved EMPr.
- 1.4. Where any of the holder of the EA contact details change including name of the responsible person, physical or postal address/ or telephonic details, the holder of the IEA must notify the Department as soon as the new details become known to the holder of the EA.
- 1.5. The EA does not negate the responsibility of the holder to comply with any other statutory requirements that may be applicable to the undertaking of such activity (ies).
- 1.6. The holder of EA must ensure that all areas where the authorised activities occur have controlled access to ensure safety of people and animals.

#### 2. APPEAL OF AUTHORISATION

- 2.1 The holder of EA must in writing, within 14 (fourteen) calendar days from the date of this decision and in accordance with EIA Regulation 4(2) do the following:
- 2.2 Notify all registered I&APs of –
  - 2.2.1 The outcome of the application;
  - 2.2.2. The date of the decision;
  - 2.2.3. The date of issue of the decision and;
  - 2.2.4 The reasons for the decision as included in Annexure 1 and Departmental Standard Conditions in Annexure 2.
- 2.3 Draw the attention of all registered I&APs to the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations,
- 2.4 Draw the attention of all registered I&APs to the manner in which they may access the decision.
- 2.5 Provide the registered I&APs with:
  - 2.5.1 Name of the holder (entity) of this EA;
  - 2.5.2 Name of the responsible person for this EA;



- 2.5.3 Postal address of the holder;
- 2.5.4 Telephonic and fax details of the holder;
- 2.5.5 E-mail address of the holder if any.



### 3 COMMENCEMENT OF THE ACTIVITY (IES)

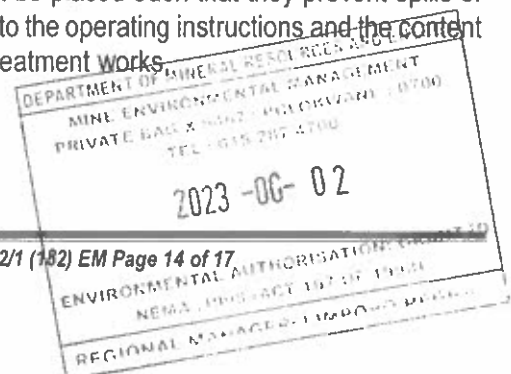
- 3.1 In order to ensure safety, all employees must be given the necessary personnel protective equipment (PPE).
- 3.2 This IEA must be provided to the site operator and the requirements thereof must be made fully known to him or her.
- 3.3 Hauling routes for construction vehicles and machinery must be clearly marked and appropriate signalling must be posted to that effect. Furthermore, movement of construction vehicles and machinery must be restricted to areas outside of the drainage line or wet areas.
- 3.4 Appropriate notification sign must be erected at the construction site, warning the public (residents, visitors etc.) about the hazard around the construction site and presence of heavy vehicles and machinery.
- 3.5 Construction must include design measures that allow surface and subsurface movement of water along the drainage lines so as not to impede natural surface and subsurface water flow, and drainage measures must promote the dissipation of storm water runoff.
- 3.6 Vegetation clearance must be limited areas where the individual activities will occur, and mitigation measures must be implemented to reduce the risk of erosion and alien species invasion.
- 3.7 The holder of IEA must note that in terms of the National Forest Act (Act No.84 of 1998) protected plant species, also listed in Limpopo Environmental Management Act (Act no.7 of 2003) must not be cut, disturbed, damaged, destroyed and their products must not be possessed, collected, removed, transported, exported, donated, purchased or sold unless permission is granted by the Department of Agriculture, Forestry and fisheries.
- 3.8 Construction areas (e.g. material lay down areas), topsoil and subsoil must be protected from contamination or pollution. Stockpiling must not take place in drainage lines or areas where it will impede surface water runoff.
- 3.9 If any soil contamination is noted at any phase of the proposed activity (ies), the contaminated soil must be removed to a licensed waste disposal facility and the site must be rehabilitated to the satisfaction of the Department and Department of Water and Sanitation. The opportunity for the onsite remediation and re-use of contaminated soil must be investigated prior to the disposal and this Department must be informed in this regard.
- 3.10 An integrated waste management approach must be implemented that is based on waste minimization and must incorporate avoidance, reduction, recycling, treat, reuse and disposal where appropriate. Uncontaminated rubble generated on the premises can be re-used as back filling material on site. Ensure that no refuse or rubble generated on the premises is placed, dumped or deposited on the adjacent properties or public places and open space.
- 3.11 In terms of sections 28 and 30 of NEMA, and sections 19 and 20 of the National Water Act, 1998 (Act No. 36 of 1998), any costs incurred to remedy environmental damage must be borne by the person

responsible for the damage. It is therefore imperative that the holder of the IEA reads through and understand the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about environmental risks of their work and training them to operate in an environmentally acceptable manner.

- 3.12 Construction vehicle must be serviced and maintained in the manner whereby no excessive smokes and noise production is reduced to acceptable levels, and to prevent oil leaks. Contaminated soil must be remediated on site or removed to an authorised landfill site.
- 3.14 Residents (if any) on the property (ies) and surrounding areas must be informed if any unusually noisy activities are planned.
- 3.15. Dust suppression measures must be implemented on all exposed surface to minimize and control airborne dust.
- 3.16 Mixing of cement, concrete, paints, solvent, sealants and adhesive must be done in specified areas on concrete aprons or on protected plastic linings to contain spillage or overflow onto soil to avoid contamination of underground water and environmental damage.
- 3.17 Should any heritage remains be exposed during operation or any actions on the site, these must immediately be reported to the South African Heritage Resource Agency (SAHRA) and or Limpopo Heritage Resource Agency (LIHRA) (in accordance with the applicable legislation). Heritage remains uncovered or disturbed during earthworks must not be further disturbed until the necessary approval has been obtained from the South African Heritage Resource Agency (SAHRA) and or Limpopo Heritage Resource Agency (LIHRA).

Heritage remains include: archaeological remains (including fossil bones and fossil shells); coins; middens, indigenous and/or colonial ceramics; any articles of value or antiquity; marine shell heaps; stone artifacts and bone remains; structures and other built features; rock art and rock engravings; shipwrecks; and graves or unmarked human burials. A qualified archaeologist must be contracted where necessary (at the expense of the applicant and in consultation with the relevant authority) to remove any human remains in accordance with the requirements of the relevant authority.

- 3.18 Care must be taken to ensure that the material and excavated soil required for backfilling are free of contamination from hydrocarbons.
- 3.19 Hydraulic fluid or chemicals required during construction must be stored in a concrete lined surface with bund walls and shall be designed in such a manner that any spillage can be contained and reclaimed without any impact on the surrounding environment. Should any spills occur it should be cleaned immediately by removing spillage together with the polluted solids and dispose it in the authorised disposal site permitted of such waste. The regional office of the Department of Water and Sanitation must be notified within 24 hours of an incident that may pollute surface and underground water resources.
- 3.20 Chemical sanitation facilities or system such as toilets that do not rely on the seepage of liquids must be provided with a ratio of 1 for every 15 workers. These must be placed such that they prevent spills or leaks to the environment and must be maintained according to the operating instructions and the content thereof must be disposed of at an authorised waste water treatment works.





3.33. The listed activity (ies), including site preparation, must not commence within 20 (twenty) calendar days of the date of the notification of the decision being sent to the registered I&APs. In the event that an appeal is lodged with the appeal administrator, the effect of this environmental authorisation is suspended until such time as the appeal is decided.

3.34. Should there be any conflicting conditions between this EA and other approval granted by other authorities, it is upon the holder of EA to bring it to the attention of the Department for resolution.

#### 4. MANAGEMENT OF ACTIVITY (IES)

4.1 A copy of the EA and EMPr must be kept at the property or on site office where the activity (ies) will be undertaken. The IEA and EMPr must be produced to any authorised officials of the Department who request to see it and must be made available for inspection by any employee or agent of the holder of the IEA who works or undertakes work at the property (ies).

4.2. The content of the EMPr and its objectives must be made known to all contractors, subcontractors, agent and any other people working on the site, and any updates or amendments to the EMPr must be submitted to the Department for approval.

4.3 Regular monitoring and maintenance of storm water drainage facilities must be conducted at all times, if damaged as directed by the Department or any other relevant authority.

4.4 A buffer zone of 100 metres between the activity (ies) and the residential areas, cemeteries or burial grounds must be clearly demarcated and maintained.

4.5 The holder of the EA must prevent nuisance conditions or health hazards, or the potential creation of nuisance conditions or health hazards.

4.6 The holder of the EA must ensure that all non-recyclable waste are disposed of at waste management facilities licenced to handle such wastes and all recyclable waste are collected by licenced waste management facilities for recycling, reuse or treatment.

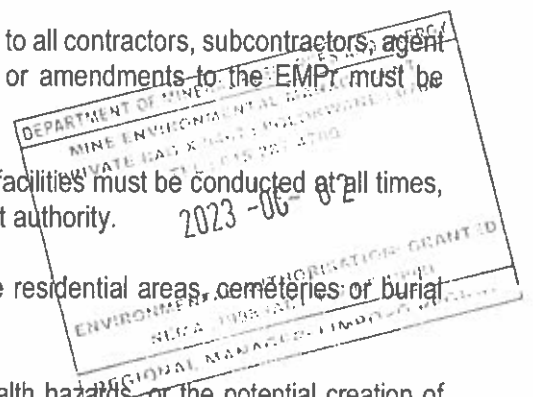
4.7 The holder of the EA must ensure that all liquid wastes, whose emissions to water or land could cause pollution are diverted to sewer, after testing water quality and receiving written approval from the relevant local authority.

4.8 Non-compliance with any condition of this EA or EMPr may result in the issuing of a directive in terms of section 28 and or a compliance notice in terms of section 31L of NEMA.

4.9 This EA only authorises activities specified in the EMPr /closure plan and a new authorisation must be applied for in respect of any new activity not specified as part of the EMPr.

4.10 Only listed activities that are expressly specified in the EMPr that forms part of this EA may be conducted, and additional or new activities not specified herein must be applied for by the holder and authorised by the competent authority in the form of an amendment to the aforesaid EMPr before such activities may be commenced with. This condition is also applicable in the case of the amendment, addition, substitution, correction, and removal or updating of any detail in the aforesaid EMPr.

4.11 Rehabilitation of the disturbed surface caused by operation at all times must comply with the approved EMPr.



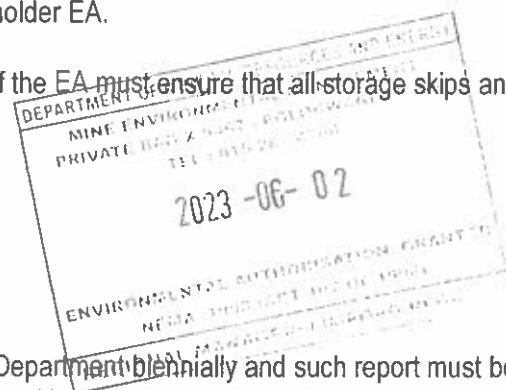


- 4.12 The Holder of EA must ensure that the name and contact details of the ECO is made available to the Regional Manager within 30 days of commencement. The holder of IEA must also ensure that an ECO is always available on site to ensure that activity (ies) at all times comply with the issued EA and approved EMPr.
- 4.13 The ECO must:
- 4.13.1. Keep and maintain a detailed incidents register (including any spillages of fuels, chemicals or any other material
  - 4.13. 2. Keep a complaint register on site indicating the complaint and how the issues were addressed, what measures were taken and what the preventative measures were implemented to avoid re-occurrence of complaints.
  - 4.13.3 Keep records relating to monitoring and auditing on site and avail them for inspection to any relevant authorised officials.
  - 4.13.4. Keep copies of all environmental reports submitted to the Department.
  - 4.13.5. Keep the records of all permits, licences and authorisations required by the operation.
  - 4.13.6. Compile a monthly monitoring report and make it available to the Department if requested.
- 4.14 The duties and responsibility of the ECO should not be seen as exempting the holder of the EA from the legal obligations in terms of the NEMWA and NEMA
- 4.15 The footprint of the activity (ies) must be limited on the areas authorised for the actual construction works and operational activities and all areas outside of the footprint must be regarded as a “no go” areas.
- 4.16 Erosion and soil loss must be prevented by minimizing the construction site exposed to surface water run-off. Where necessary erosion stabilizing action such as gabions or re-vegetation must be implemented to prevent further habitat deterioration.
- 4.17 The holder of the EA must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risk involved. Records of training and verification of competence must be kept by the holder EA.
- 4.18 In order to prevent nuisance conditions, the holder of the EA must ensure that all storage skips and bins are not overfilled.

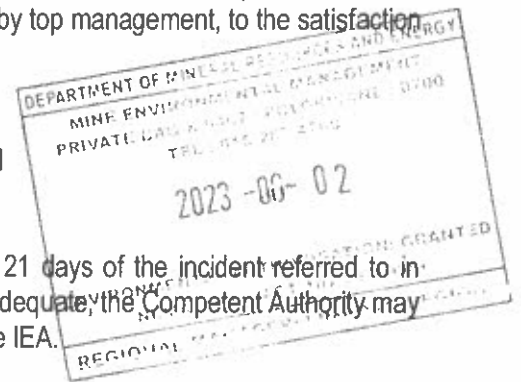
## 5 REPORTING TO THE DEPARTMENT

### 5.1 The holder of EA must:

- 5.1.1 submit and Environmental Audit Report to this Department biennially and such report must be done by qualified Environmental Assessment Practitioner and must the audit report must specify whether conditions of this environmental authorisation and EMPr/closure plan are adhered to;



- 5.1.2 identify and assess any new impacts and risks as a result of undertaking the activity/ies, if applicable;
  - 5.1.3 identify shortcomings in the EMPr/closure plan, if applicable;
  - 5.1.4. identify the need, if any, for any changes to the management, avoidance and mitigation measures provided for in the EMPr/closure plan;
  - 5.1.5. if applicable, specify that the corrective action/s taken for the previous audit's non-conformities, was adequate;
  - 5.1.6. Specify the name of the auditor and
  - 5.1.7. Be submitted by the holder to the competent authority within 30 days from the date on which the auditor finalised the audit.
- 5.2 Should any shortcomings in terms of Regulation 34(4) be identified, the holder must submit recommendation to amend the EMPr/closure plan in order to rectify any shortcomings identified with the aforementioned audit report.
- 5.3 Any complaint received from the I&AP during all phases of the operation must be attended to as soon as possible and addressed to the satisfaction of all concerned interested and affected parties.
- 5.4. The holder of the EA must annually assess the environmental liabilities of the operation by using the master rates in line with the applicable Consumer Price Index (CPI) at the time and address the shortfall on the financial provision submitted in terms of section 24P of NEMA.
- 5.5 The holder of the EA must, within 24 hours of incidents occurring, notify the Competent Authority of the occurrence or detection of any incident on the site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.
- 5.6 The holder of the EA must, within 14 days, or a shorter period of time, if specified by the Competent Authority from the occurrence or detection of any incident referred to in condition 5.5, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by top management, to the satisfaction of the Competent Authority of measures taken to –
- 5.6.1.1 Correct the impact resulting from the incident;
  - 5.6.1.2 Prevent the incident from causing any further impact; and
  - 5.6.1.3 Prevent a recurrence of a similar incident.
- 5.7 In the event that measures have not been implemented within 21 days of the incident referred to in condition 5.6, or measures which have been implemented are inadequate, the Competent Authority may implement the necessary measures at the cost of the holder of the IEA.



**6. SITE SECURITY AND ACCESS CONTROL**

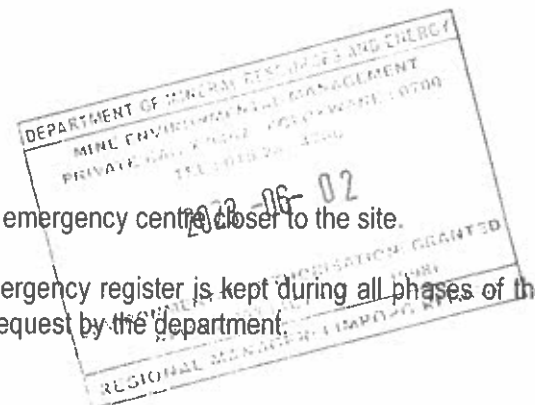
- 6.1 The holder of the EA must ensure effective access control on the site to reasonably prevent unauthorised entry. Signs indicating the risks involved in unauthorised entry must be displayed at each entrance.
- 6.2 Weather proof, durable and legible notices in at least three official languages applicable in the area must be displayed at each entrance to the Site. These notices must prohibit unauthorised entry and state the hours of operation, the name, address and telephone number of the holder of the EA and the person responsible for the operation of the site.

## 7. EMERGENCY PREPAREDNESS PLAN

7.1 The holder of the EA must maintain and implement an emergency preparedness plan and review it biennially when conducting audit and after each emergency and or major accident. The plan must, amongst others, include:

- 7.1.1 Site Fire
- 7.1.3 Spillage
- 7.1.3 Natural disasters such as floods
- 7.1.4 Industrial action
- 7.1.5 Contact details of police, ambulances and any emergency centre closer to the site.

7.2 The holder of EA must ensure that an up to date emergency register is kept during all phases of the operation. This register must be made available upon request by the department.



## 8. INVESTIGATIONS

8.1 If, in the opinion of the Competent Authority, nuisances or health risks may be or is occurring on the site, the holder of the EA must initiate an investigation into the cause of the problem or suspected problem.

8.2 If, in the opinion of the Competent Authority, pollution may be or is occurring, the holder of the EA must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables, at those monitoring points and such frequency as may be specified by the Competent Authority.

8.3 Investigations carried out in terms of conditions 8.1 and 8.2 above must include the monitoring of the relevant environmental pollution, nuisance and health risk variables, at those monitoring points and such frequency to be determined in consultation with the Competent Authority.

8.4 Should the investigation carried out as per conditions 8.1 and 8.2 above reveal any unacceptable levels of pollution, the holder of the EA must submit mitigation measures to the satisfaction of the Competent Authority.

## 9. COMMISSIONING AND DECOMMISSIONING

9.1 The commissioning and decommissioning of individual activity within the overall listed mining activity must take place within the phases and timeframes as set out in EMP or EMPr.

## 10. SITE CLOSURE

10.1 The holder of EA must apply for a closure certificate in terms of Section 43 of Mineral and Petroleum Resources Development Act (Act 28 of 2002), as amended within 180 days of occurrence of lapsing, abandonment, cancellation, cessation, relinquishment and completion of development.

10.2 The application for closure indicated above must be submitted together with all relevant documents as indicated in Section 43 of Mineral and Petroleum Resources Development Act (Act 28 of 2002), as amended.

10.3 No exotic plants may be used for rehabilitation purposes only indigenous plant can be utilized for rehabilitation purposes.

- 10.4 The holder of EA remains responsible for any environmental liability, pollution or ecological degradation, the pumping and treatment of extraneous water, compliance with the conditions of EA and the management and sustainable closure thereof until the Minister has issued a Closure Certificate in terms of Section 43 of Mineral and Petroleum Resources Development Act (Act 28 of 2002). Where necessary the Minister may retain certain portion of financial provision for residual, health or environmental impacts that might be known in future.

## 11. NEMA PRINCIPLES

The NEMA Principles (set out in Section 2 of NEMA, which apply to the actions of all Organs of State, serve as guidelines by reference to which any Organ of State must exercise any function when taking any decision, and which must guide the interpretation, administration and implementation of any other law concerned with the protection or management of the environment), *inter alia*, provides for:

- the effects of decisions on all aspects of the environment to be taken into account;
- the consideration, assessment and evaluation of the social, economic and environmental impacts of activities (disadvantages and benefits), and for decisions to be appropriate in the light of such consideration and assessment;
- the co-ordination and harmonisation of policies, legislation and actions relating to the environment;
- the resolving of actual or potential conflicts of interest between Organs of State through conflict resolution procedures; and
- the selection of the best practicable environmental option.

## 12. DISCLAIMER

The Department of Mineral Resources and Energy in terms of the conditions of this environmental authorisation shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

## 13. RECOMMENDATIONS

In view of the above, the NEMA principles, compliance with the conditions stipulated in this EA, and compliance with the EMP/closure plan, the competent authority is satisfied that the proposed listed activity/ies will not conflict with the general objectives of Integrated Environmental Management stipulated in Chapter 5 of NEMA, and that any potentially detrimental environmental impacts resulting from the listed activity/ies can be mitigated to acceptable levels. **The authorisation is accordingly granted.**

Your interest in the future of our environment is appreciated.

Yours faithfully,

*U.M. Malayo*  
.....  
**CHIEF DIRECTOR: MINERAL AND PETROLEUM REGULATION  
NORTHERN REGIONS**  
DATE: *02.06.2023*

