



mineral resources & energy

Department:
Minerals Resources and Energy
REPUBLIC OF SOUTH AFRICA

Directorate: Mineral Regulation: North West Region,
Private Bag A1, Klerksdorp, 2570, Cnr Margaretha Prinsloo & Voortrekker Streets
Vaal University of Technology Building, Klerksdorp, 2571

Enquiries: Percy Makamu Tel: (018) 487 4300 Fax: (018) 487 4350
E-Mail: Desmond.Makamu@dmre.gov.za **Ref No.:** NW 30/5/1/2/3/2/1(77) EM

The Manager
Kalahari Goldridge Mining Company Limited
P.O Box 2083
PINEGOWRIE
2123

Attention: Pieter Coetzee
Email: Pieter.coetzee@harmony.co.za

Fax No: (086) 613 1831

AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION IN TERMS OF REGULATION 27 (2) (a) AS READS TOGETHER WITH REGULATION 33 (1) OF THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2017 AS AMENDED FOR THE AMENDMENT OF THE GRANTED ENVIRONMENTAL AUTHORISATION FOR THE EXPANSION OF KALGOLD PRODUCTION OPERATION AND ITS ASSOCIATED NEW ACTIVITIES IN RESPECT OF THE REMAINDER OF PORTION 1 AND PORTION 5 OF THE FARM SPANOVER 549, THE REMAINING PORTION OF SPANOVER 552, THE FARM FERNDALE 554, PORTION 13 OF THE FARM FERNDALE 551 AND THE REMAINING EXENT OF THE FARM GOLDRIDGE 632, SITUATED IN THE MAGISTERIAL DISTRICT OF NGAKA MODIRI MOLEMA, NORTH WEST REGION BY KALAHARI GOLDRIDGE MINING COMPANY LIMITED.

With reference to the above-mentioned application, please be advised that the Department has decided to **grant an amended environmental authorisation** in terms Regulation 33 of the National Environmental Management Act (Act 107 of 1998): EIA Regulations, 2014 as amended. The Environmental Authorisation and reasons for the decision are attached herewith.

In terms of regulation 4 (2) of the NEMA: EIA Regulations, 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 as amended.

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

Appeal to the Department of Environmental Affairs

Attention : Directorate Appeals and Legal Review
Email : appeals@environment.gov.za
: MRakgogo@environment.gov.za
By post : Private Bag X 447, **PRETORIA**, 0001
By hand : Environment House, Corner Steve Biko and Soutpansberg Street,
Arcadia, Pretoria, 0083

Copy of the lodged appeal to the Department of Mineral Resources

Attention : Regional Manager: North West Region
By facsimile : (018) 487 4350
E-mail : Phumudzo.Nethwadzi@dmre.gov.za
By post : Private Bag A1, Klerksdorp, 2570
By hand : Vaal University of Technology Building, Corner Margaretha Prinsloo &
Voortrekker Street, Klerksdorp, 2570

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 Fisheries, Forestry and Environment.

Yours Faithfully



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CHIEF DIRECTOR

MINERAL AND PETROLEUM REGULATION

NORTH WESTERN REGIONS

DATE: 04/10/2022



mineral resources & energy

Department
Minerals Resources and Energy
REPUBLIC OF SOUTH AFRICA

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Enquiries: Percy Makamu Tel: (018) 487 4300 Fax: (018) 487 4350
E-Mail: Desmond.Makamu@dmre.gov.za **Ref No.:** NW 30/5/1/2/3/2/1(77) EM

ENVIRONMENTAL AUTHORISATION

Reference number:	NW 30/5/1/2/3/2/1(77) EM
Last amended:	First issue
Holder of authorisation:	Kalahari Goldridge Mining Company Limited
Location of activity:	Remainder of portion 1 and 5 of the farm Spanover 549, the remaining portion of farm Spanover 552, the farm Ferndale 554, portion 13 of the farm Ferndale 551 and the remaining extent of the farm Goldridge 632

DECISION

ACRONYMS

NEMA	: National Environmental Management Act, 1998 (Act 107 of 1998) (as amended)
DEPARTMENT	: Department of Mineral Resources and Energy.
EA	: Environmental Authorisation.
IEA	: Integrated Environmental Authorisation.
EMPr	: Environmental Management Programme
EIAR	: environmental Impact Assessment Report
I&AP	: Interested and Affected Parties
ECO	: Environmental Control Officer
SAHRA	: South African Heritage Resources Agency
EIA REGULATIONS:	EIA Regulations, 2017 as amended

- MPRDA** : Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002), as amended
- NEMA** : National Environmental Management Act, 1998 (Act No.107 of 1998) as amended
- NEMWA** : National Environmental Management: Waste Act, 2008 (Act 59 of 2008), as amended
- EIA** : Environmental Impact Assessment.

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this amended environmental authorisation, that the applicant should be authorised to undertake **NEMA EIA** listed activity 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.

ACTIVITIES APPLIED FOR AND AUTHORISED

By virtue of the powers conferred to it by NEMA, the Department hereby grants an Amended Environmental Authorization to Kalahari Goldridge Mining Company Limited with the following contact details:

The Manager
Kalahari Goldridge Mining Company Limited
P.O Box 2083
PINEGOWRIE
2123

Attention: Pieter Coetzee
Email: Pieter.coetzee@harmony.co.za

Fax No: (086) 613 1831

To undertake the following activity listed in the NEMA EIA Regulations, 2017 as amended.

NEMA: Listed Activities:

GNR	Activity number	Description of applied activity	Applicability
327	9	<p>The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of water or storm water—</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more;</p> <p>excluding where—</p> <p>(a) such infrastructure is for bulk transportation of water or storm water or storm water drainage inside a road reserve or railway line reserve; or</p> <p>(b) where such development will occur within an urban area.</p>	<p>Construction of the following pipelines:</p> <ul style="list-style-type: none"> • Pipeline from central dam to new plant (Internal diameter of approximately 450mm and peak throughput of approximately 230L/s). • Pipeline from TSF and D-zone to the new plant) (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s). • Pipeline from new plant to Morokwa River for discharge of treated water (Internal diameter of approximately 350mm). • Water pipe from A-Zone to Central dam. (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s). • Water pipe from Watertank pit to Central dam (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s). <p>Pipeline from the Emergency dam to the return water dam (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s).</p>
327	10	<p>The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, wastewater, return water, industrial discharge or slimes –</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more;</p> <p>excluding where—</p> <p>(a) such infrastructure is for the bulk transportation of sewage, effluent, process water, wastewater, return water, industrial discharge or slimes inside a road reserve or railway line reserve; or</p> <p>(b) where such development will occur within an urban area.</p>	<p>Construction of the following pipelines:</p> <ul style="list-style-type: none"> • Pipeline from central dam to new plant (Internal diameter of approximately 450mm and peak throughput of approximately 230L/s). Pipeline from TSF and D-zone to the new plant) (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s). • Pipeline from new plant to Morokwa River for discharge of treated water (Internal diameter of approximately 350mm). • Water pipe from A-Zone to Central dam. (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s). • Water pipe from Watertank pit to Central dam (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s). • Pipeline from the Emergency dam to the return water dam (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s).
327	12	<p>"The development of—</p> <p>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area, exceeds 100 square metres; or</p> <p>(ii) infrastructure or structures with a physical footprint of 100 square metres or more;</p>	<ul style="list-style-type: none"> • New pollution control dams. 6 PCDs are proposed. • Pipeline from old plant raw water pond to the new plant (D-Zone return water). • Tailings pipeline from the new plant to D-Zone pit.

		<p>where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse; —</p> <p>excluding—</p> <p>(aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;</p> <p>(bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies;</p> <p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such development occurs within an urban area;</p> <p>(ee) where such development occurs within existing roads, road reserves or railway line reserves; or</p> <p>(ff) the development of temporary infrastructure or structures where such infrastructure or structures will be removed within 6 weeks of the commencement of development and where indigenous vegetation will not be cleared. "</p>	<ul style="list-style-type: none"> • Treated water discharge pipeline (from new plant to stream). • Emergency Dam return water pipeline. • Water pipe from A-Zone to Central dam. • Construction of a powerline.
237	19	<p>"The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</p> <p>but excluding where such infilling, depositing, dredging, excavation, removal or moving—</p> <p>(a) will occur behind a development setback;</p> <p>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</p> <p>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;</p> <p>(d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or</p> <p>(e) where such development is related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies."</p>	<p>Expansion of the pits and other associated infrastructure will result in excavation of more than 10 cubic metres of soils and rock from watercourse.</p>
327	24	<p>The development of a road—</p>	<p>Construction of internal haul roads. The following roads are required:</p>

		<p>(i) for which an environmental authorisation was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Government Notice 545 of 2010; or</p> <p>(ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</p> <p>but excluding a road—</p> <p>(a) which is identified and included in activity 27 in Listing Notice 2 of 2014;</p> <p>(b) where the entire road falls within an urban area; or</p> <p>(c) which is 1 kilometre or shorter."</p>	<ul style="list-style-type: none"> • Road from Pit to new ROM pad (approximately 28m wide). • Road to Spanover waste rock dump extension. • Road from the new and old plants to the N18 ((approximately 13m wide). • Road to new explosives magazine (approximately 13m wide). <p>Internal access roads</p>
327	25	The development and related operation of facilities or infrastructure for the treatment of effluent, wastewater or sewage with a daily throughput capacity of more than 2 000 cubic metres but less than 15 000 cubic metres.	Proposed water treatment plant with a capacity of up to 12000m ³ /day.
327	27	<p>All infrastructure (ventilation shaft)</p> <p>"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-</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan."</p>	<p>Vegetation clearance will be required for the following among others:</p> <ul style="list-style-type: none"> • Pit expansion <ul style="list-style-type: none"> ◦ A-Zone Pit (127 ha) ◦ Windmill South (13 ha) • Extension of Spanover waste rock dump (140 ha). • New ROM Pad (~ 10 ha). • Explosives magazine (footprint of 1.5 ha). • Linear infrastructure. • New processing plant (15 ha footprint).
327	45	<p>The expansion of infrastructure for the bulk transportation of water or storm water where the existing infrastructure—</p> <p>(i) has an internal diameter of 0,36 metres or more; or</p> <p>(ii) has a peak throughput of 120 litres per second or more; and</p> <p>(a) where the facility or infrastructure is expanded by more than 1 000 metres in length; or</p> <p>(b) where the throughput capacity of the facility or infrastructure will be increased by 10% or more;</p> <p>excluding where such expansion—</p> <p>(aa) relates to transportation of water or storm water within a road reserve or railway line reserve; or</p> <p>(bb) will occur within an urban area.</p>	<p>Expansion of the following pipelines:</p> <ul style="list-style-type: none"> • Pipeline from A-zone to Central dam. • Pipeline from Watertank pit to Central dam.

327	56	<p>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre-</p> <p>(i) where the existing reserve is wider than 13,5 meters; or</p> <p>(ii) where no reserve exists, where the existing road is wider than 8 metres;</p> <p>excluding where widening or lengthening occur inside urban areas.</p>	Upgrade to existing internal roads.
325	4	<p>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 more than 500 cubic metres</p>	<p>Development of storage facilities for chemicals required in the new processing plant. Facilities for the following will be required:</p> <ul style="list-style-type: none"> • Dilute Acids Make-up Tank (56m³) • Sulphamic Acid (59 m³) • Hydrochloric Acid Dosing tanks (2x 30 m³) • Cyanide (3 x 73 m³) • Caustic Soda (32 m³) • Eluted Carbon Storage Tank (39 m³) • Regenerated Carbon Tank (39 m³) • Eluant Distribution Tank (2.46 m³) • Cathode Wash Tank (12.58 m³) • Cathode Sludge Tan (12.58 m³) • Gold Room Filtrate Tank (3.03 m³) • Barren Solution Tank (242 m³) <p>Diesel (46 m³)</p>
325	6	<p>The development of facilities or infrastructure for any process or activity which requires a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding—</p> <p>(i) activities which are identified and included in Listing Notice 1 of 2014;</p> <p>(ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies;</p> <p>(iii) the development of facilities or infrastructure for the treatment of effluent, polluted water, wastewater or sewage where such facilities have a daily throughput capacity of 2 000 cubic metres or less; or</p> <p>(iv) where the development is directly related to aquaculture facilities or infrastructure where the wastewater discharge capacity will not exceed 50 cubic metres per day.</p>	Construction and operation of the processing plant will require an Atmospheric Emissions Licence (AEL).

325	7	<p>The development and related operation of facilities or infrastructure for the bulk transportation of dangerous goods-</p> <p>(i) in gas form, outside an industrial complex, using pipelines, exceeding 1 000 metres in length, with a throughput capacity of more than 700 tons per day;</p> <p>(ii) in liquid form, outside an industrial complex, using pipelines, exceeding 1 000 metres in length, with a throughput capacity of more than 50 cubic metres per day; or</p> <p>(iii) in solid form, outside an industrial complex, using funiculars or conveyors with a throughput capacity of more than 50 tons per day.</p>	<p>Pipeline from TSF and D-zone to the new plant) (Internal diameter of approximately 350mm and peak throughput of approximately 150L/s).</p>
325	15	<p>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	<p>Vegetation clearance will be required for the following among others:</p> <ul style="list-style-type: none"> • Pit expansion <ul style="list-style-type: none"> ◦ A-Zone Pit (127 ha) ◦ Windmill South (13 ha) • Extension of Spanover waste rock dump (140 ha). • New ROM Pad (~ 10 ha). • Explosives magazine (footprint of 1.5 ha). • Linear infrastructure. • New processing plant (15 ha footprint).
325	17	<p>Any activity including the operation of that activity which requires a mining right as contemplated in section 22 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including—</p> <p>(a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource; or</p> <p>(b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing;</p> <p>but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.</p>	<p>Mining activities including the proposed additional infrastructure required.</p>
324	4	<p>The development of a road wider than 4 meters with a reserve less than 13.5 meters.</p>	<p>Construction of internal access roads.</p>
324	10	<p>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</p>	<p>Development of storage facilities for chemicals required in the new processing plant. Facilities for the following will be required:</p> <ul style="list-style-type: none"> • Dilute Acids Make-up Tank (56m³) • Sulphamic Acid (59 m³)

		a combined capacity of 30 but not exceeding 80 cubic metres.	<ul style="list-style-type: none"> • Hydrochloric Acid Dosing tanks (2x 30 m³) • Cyanide (3 x 73 m³) • Caustic Soda (32 m³) • Eluted Carbon Storage Tank (39 m³) • Regenerated Carbon Tank (39 m³) • Eluant Distribution Tank (2.46 m³) • Cathode Wash Tank (12.58 m³) • Cathode Sludge Tan (12.58 m³) • Gold Room Filtrate Tank (3.03 m³) • Barren Solution Tank (242 m³) <p>Diesel (46m³)</p>
324	12	<p>The clearance of an area of 300 square meters 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.</p> <p>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004</p>	<p>The construction of the powerline, tailings pipeline, roads and return water pipelines.</p> <p>The Power line, water pipeline, roads and return water corridor falls across the ESA1 areas.</p>
324	14	<p>The development of—</p> <p>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10 square metres; or</p> <p>(ii) infrastructure or structures with a physical footprint of 10 square metres or more;</p> <p>where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.</p>	<p>Construction of pollution control dams. 6 pollution control dams are proposed as part of the storm water management plan.</p>
324	18	<p>The widening of a road by more than 4 meters; or the lengthening of a road by more than 1 kilometre.</p>	<p>Construction or widening of internal haul roads.</p>
	Waste management activities applicable to	<p>The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to associated waste management activity).</p>	<p>Extension of Spanover waste rock dump and recommissioning of the existing Tailings Storage Facility</p>

	the expansion project		
	Category B10		
	Category B11	The establishment or reclamation of a residue stockpile or residue deposit resulting from activities which require a mining right, exploration right or production right in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).	Extension of Spanover waste rock dump and recommissioning of the existing Tailings Storage Facility

Detailed specifications of the activities are as follows:

Proposed expansion project details are as follows:
The properties that form part of the application area for the proposed Kalgold Expansion Project cover an extent of approximately 2699 ha
Mineral-Gold
Proposed activity: Kalgold Expansion.
<p>On the 03 May 2021 the applicant lodged an application for the expansion of processing facilities and associated activities (Annexure B). The following new activities and expansions must be provided for:</p> <ul style="list-style-type: none"> ➤ the pit footprint will increase ➤ lager dewatering pipelines ➤ extension to spanover waste rock dump ➤ road from the pit to new ROM pad ➤ new ROM pad ➤ new plant ➤ recommission old Tailing Storage Facility at low deposition ➤ increase deposition rate at D-zone pit ➤ install pipeline from central dam to the new plant ➤ pipeline from D-zone to the new plant ➤ pipeline from new plant to stream for discharge of treated water ➤ install two power lines from Ferndale substation to new plant ➤ install evaporators at central dam (to evaporate excess water)

- install a water treatment plant at the new plant
- relocate and expand the explosive magazine
- additional new road from the plant to the N18

The granting of this amendment of the Environmental Authorisation is subject to the conditions set out below (site specific) and in **Annexure 2** (Departmental standard conditions). The Environmental Impact Assessment Report and Environmental Management Programme (EMPr) attached as part of report for the above development submitted as part of the application for an amendment of Environmental Authorisation is hereby approved and must be adhered to throughout the life cycle of the operation.

AMENDED ENVIRONMENTAL AUTHORISATION SITE SPECIFIC CONDITIONS

1. The mitigation measures outlined in the Environmental Impact Assessment Report and EMPr must be implemented throughout the lifespan of the project.
2. The holder attention should be drawn to the requirements of section 5 of the Mine Health and Safety Act, Act No 29 of 1996 and a manager must be appointed in terms of section 3.1 of the Mine Health and Safety Act, 1996 (Act No 29 of 1996) to oversee the proposed operation.
3. The greatest impacts of the development were identified as a loss of habitat-therefore the appropriate permit applications must be followed for the protected trees in case they are identified on site.
4. For the operation of the processing plant, you are required to apply for Atmospheric Emission Licence with the relevant competent authority.
5. Ensure that you maintain a 500m buffer from any infrastructure or dwelling place.
6. Ensure that there are signages on site during the construction phase.

ANNEXURE 1: REASONS FOR THE DECISION

1. Background

Kalgold Goldridge Mining Company Limited has applied for an amendment of the EA for the activities listed in the NEMA: EIA Regulations, 2017 as amended:

2. Information considered in making the decision.

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

- 2.1 The information contained in the application form received by the Department on the 03 May 2021.
- 2.2 The information contained in the Environmental Impact Assessment Report and Environmental Management Programme submitted to this office on 09 May 2022.
- 2.3 The objectives and requirements of the applicable and relevant legislation, policies and guidelines and the NEMA:EIA Regulations, 2017 as amended.
- 2.4 Public Participation Process (PPP) conducted, followed the requirement of regulation 41 of the EIA. Minutes of the meetings held with the relevant stake holders and the newspaper adverts place on Mahikeng Mail dated 26 March 2021.

3. Key factors considered in making the decision.

All the information presented was considered 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.

- 3.1 The procedure that has been followed is in accordance with the NEMA and the EIA Regulations of 2017 as amended.
- 3.2 The environmental impacts associated with the proposed activity will be addressed by the proposed mitigation measures outlined in the Environmental Impact Assessment Report and EM Programme Report compiled by Bongani Khupe from Environmental Impact Management Services.

- 3.3 Public Participation Process (PPP) was undertaken, and the applicant has satisfied the minimum requirements as prescribed in Chapter 6 Regulation 40-44 of the EIA Regulations, 2017.
- 3.4 Appendix D4-Geohydrological impact Assessment-the study primarily to assess the potential impacts from the proposed mining extension and associated waste facilities on the ground water regime. The groundwater quality monitoring in the mine monitoring boreholes should continue as per the Water Use Licence requirements. The study conducted by MvB Consulting dated April 2021.
- 3.5 Appendix D5-Hydrological Impact Assessment-the study undertaken by Hydrologic Consulting (Pty) Ltd dated January 2022, the recommendation made in the study to be implemented during the operation.
- 3.6 Appendix D6-terrestrial Ecology Impact Assessment- the study on terrestrial ecology assessment study undertaken by the Biodiversity Company date October 2021.
- 3.7 Appendix D7-Heritage and cultural Resources Impact Assessment Archaeological Study-the study conducted by PSG Heritage (Pty) Ltd dated 20 October 2021. The findings and the recommendations made out of the study undertaken over the proposed area.
- 3.8 Appendix D9-Social Impact Assessment-the socio-economic assessment report conducted by NLN Consulting dated 12 December 2021. The project holds positive potential (medium) in terms of job and income creation for the local community, the generation of local development.
- 3.9 Appendix D10-Traffic Impact Assessment-conducted by SMEC report dated 26 November 2021. The study has recommended mitigation measures: provide bypass routes for the temporary road closure during construction, limit heavy vehicle speed to 40km/h along internal site roads. Internal gravel access Roads should be maintained to support heavy vehicle movement. Heavy vehicle trips for planning, construction, decommission and rehabilitation and closure phases should be limited to off-peak hours as far as possible and disturbed throughout a period as far as possible.

3.10 Appendix D11-Waste Classification- a study for Geochemical mineral waste characterisation and assessment by GeoDynamic System. Based on the geochemical assessment all the mineral waste types i.e the Water Tank waste rock, the Spanover waste rock, the low-grade ore material and the tailings material can be classified as type 4.

3.11 Appendix 8- Rehabilitation and Implementation Strategy-it has outlined on how the rehabilitation and the reclamation of the tailing dam will be done.

3.12 EAP has made consultation with the States Department administering environmental related matters as required in terms of section 24K of the NEMA and the competent authority has taken into consideration the comments made in reaching the decision.

3.13 The company has complied with the requirements of section 24P (1) of NEMA in that they provided the amount of R13 406 514-18 for rehabilitation of environmental damages as requested by this office. The financial provision was provided in the form of an insurance guarantee.

4. Findings

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

4.1 The potential impacts on the proposed site were clearly investigated and mitigation measures outlined.

4.2 The Public Participation Process complied with Chapter 6 of the NEMA: EIA Regulations R.326. The PPP included, *inter-alia*, the following:

- A newspaper advertisement was placed in "Mahikeng Mail" on the 7 August 2020.
- Open day and site notices which were strategically placed on sites to alert interested and affected parties about the proposed expansion project.

ANNEXURE 2: DEPARTMENT STANDARD CONDITIONS

5. SCOPE OF AUTHORISATION

5.1 The holder of amended EA shall be responsible for ensuring compliance with the conditions contained in the amended 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 the amended EA.

5.2 Any changes to, or deviation from the project description set out in this amended 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 amended EA to apply for further authorization in terms of the EIA Regulations.

5.3 The activities, which are authorized, may only be carried out at the property indicated in the amended EA and or on the approved EMPr.

5.4 Where any of the holder of the amended EA contact details change including the name of the responsible person, physical or postal address/ or telephonic details, the holder of the amended EA must notify the Department as soon as the new details become known to the holder of the amended EA

5.5 The amended 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/ activities.

5.6 The holder of amended EA must ensure that all areas where the authorized activities occur have controlled access to ensure safety of people and animals.

6. APPEAL OF AUTHORISATION

6.1 The holder of amended 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:

6.2 Notify all registered I&APs of –

- 6.2.1 The outcome of the application;
 - 6.2.2 The date of the decision;
 - 6.2.3 The date of issue of the decision and;
 - 6.2.4 The reasons for the decision as included in Annexure 1 and Department Standard Conditions in Annexure 2.
- 6.3 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,
- 6.4 Draw the attention of all registered I&APs to the manner in which they may access the decision.
- 6.5 Provide the registered I&APs with:
- 6.5.1 Name of the holder (entity) of this IEA;
 - 6.5.2 Name of the responsible person for this IEA;
 - 6.5.3 Postal address of the holder;
 - 6.5.4 Telephonic and fax details of the holder and
 - 6.5.5 E-mail address of the holder if any.

7. COMMENCEMENT OF THE ACTIVITIES

- 7.1 In order to ensure safety, all employees must be given the necessary personnel protective equipment (PPE).
- 7.2 This amended EA must be provided to the site operator and the requirements thereof must be made fully known to him or her.
- 7.3 Hauling routes for construction vehicles and machinery must be clearly marked and appropriate signaling 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.
- 7.4 Appropriate notification sign must be erected at the construction site, warning the public (residents, visitors etc.) about the hazard around the construction/ prospecting site and presence of heavy vehicles and machinery.
- 7.5 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.

- 7.6** Vegetation clearance must be limited on areas where the individual activity will occur, and mitigation measures must be implemented to reduce the risk of erosion and alien species invasion.
- 7.7** The holder of amended EA must note that in terms of the National Forest Act, 1998 (Act No.84 of 1998) protected plant species 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.
- 7.8** 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 this 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.
- 7.9** 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. 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.
- 7.10** 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 amended EA reads through and understand the legislative requirements pertaining to the project.
- 7.11** It is the holder of amended EA 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.
- 7.12** Construction vehicle must be serviced and maintained in the manner whereby no excessive smokes and noise production is reduced to acceptable levels and to

- 7.13** prevent oil leaks. Contaminated soil must be remediated on site or removed to an authorized landfill site.
- 7.14** Residents (if any) on the property (ies) and surrounding areas must be informed if any unusual noisy activities are planned when undertaking your construction activities.
- 7.15** Dust suppression measures must be implemented on all exposed surface to minimize and control airborne dust.
- 7.16** 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.
- 7.17** 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 North West Province Heritage Resource Agency (NWPHRA) (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 North West Province Heritage Resource Agency (NWPHRA).
- 7.18** 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 artefacts 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.
- 7.19** 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 authorized disposal site permitted of such waste. The regional office of the Department of Water and

- 7.20** Sanitation must be notified within 24 hours of an incident that may pollute surface and underground water resources.
- 7.21** 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 authorized wastewater treatment works.
- 7.22** The holder of amended EA must ensure that any water uses listed in terms of Section 21 of National Water Act must get authorization from Department of Water and Sanitation prior to the commencement of such activity (ies).
- 7.23** This amended EA does not purport to absolve the holder of amended EA from its common law obligations towards the owner of the surface of land affected.
- 7.24** The holder of amended EA must ensure that rehabilitation of the disturbed areas caused by operation at all times comply with the approved EMPr.
- 7.25** This amended EA may be amended or withdrawn at any stage for non-compliance and provides no relief from the provisions of any other relevant statutory or contractual obligations.
- 7.26** The holder of amended EA must note that in terms Section 43A of the National Environmental Management: Waste Act, 2008 (Act No.59 of 2008), residue deposit and residue deposit must be deposited and managed in a prescribed manner on any site demarcated for that purpose in the Environmental Management Programme. No person may temporary or permanently deposits residue stockpile or residue deposit on any area or site other than on site indicated on the Environmental Management Plan or Environmental Management Programme.
- 7.27** The holder of amended EA must note that in terms Section 20 of the National Environmental Management: Waste Act, 2008 (Act No.59 of 2008), no person may commence, undertake or conduct a waste management activity, except in accordance, with the requirements of norms and standards determined in terms of Section 19 (3) for that activity or a waste management license is issued in respect of that activity if license is required.

- 7.28** Should you be notified by the Minister of a suspension of the authorization pending appeal procedure, you may not commence with the activity (ies) until such time that the Minister allows you to commence with such activity (ies) in writing.
- 7.29** The Department reserves the right to audit and/or inspect the activity (ies) without prior notification at any reasonable time and at such frequency as may be determined by the Regional Manager.
- 7.30** The waste storage site must have a firm, impermeable, chemical resistant floors and a roof to prevent direct sunlight and rainwater from getting in contact with the waste.
- 7.31** The storage of hydrocarbons must have bund walls with adequate capacity to contain the maximum volume that is stored in the area. Uncontaminated storm water must be prevented from encountering the waste and must be diverted away from the storage site.
- 7.32** Subject to the commencement and duration requirements of the MPRDA and NEMA for the listed activities, the amended EA is valid for the period for which the aforesaid mining right is granted provided that these activities must commence within 1 year. If the commencement of the proposed activities does not occur within the specified period, the amended EA lapses and a new application for amended EA in terms of the NEMA and the amended EA Regulations should be made for the activity to be undertaken.
- 7.33** The listed activities, 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 authorization is suspended until such time as the appeal is decided.
- 7.34** Should there be any conflicting conditions between this amended EA and other approval granted by other authorities, it is upon the holder of amended EA to bring it to the attention of the Department for resolution.

8. MANAGEMENT OF ACTIVITIES

- 8.1** A copy of the amended EA and EIAR and EMPr must be kept at the property or on-site office where the activities will be undertaken. The amended EA and EMPr must be produced to any authorized officials of the Department who request to see it and

- 8.2** must be made available for inspection by any employee or agent of the holder of the amended EA who works or undertakes work at the properties.
- 8.3** The content of the EIAR and 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 EIAR and EMPr must be submitted to the Department for approval.
- 8.4** Regular monitoring and maintenance of storm water drainage facilities must always be conducted, if damaged as directed by the Department or any other relevant authority.
- 8.5** If applicable a buffer zone of 100 metres between the activity (ies) and the residential areas, cemeteries or burial grounds must be clearly demarcated and maintained.
- 8.6** The holder of the amended EA must ensure that all non-recyclable waste are disposed of at waste management facilities authorized to handle such wastes and all recyclable waste are collected by licensed waste management facilities for recycling, reuse or treatment.
- 8.7** The holder of the amended EA must prevent nuisance conditions or health hazards, or the potential creation of nuisance conditions or health hazards.
- 8.8** The holder of the amended 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.
- 8.9** Non-compliance with any condition of this amended 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. The BAR and EMPr that forms part of this amended EA may be conducted, and additional or new activities not specified herein must be applied for by the holder and authorized by the competent authority in the form of an amendment to the aforesaid amended EA or BAR and 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 amended EA or EMPr.
- 8.10** Rehabilitation of the disturbed surface caused by operation at all times must comply with the approved EIAR and EMPr.

8.11 The holder of amended 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 amended EA must also ensure that an ECO is always available on site to ensure that activities at all times comply with the issued amended EA and approved EMPr.

8.12 The ECO must:

- 8.12.1** Keep and maintain a detailed incidents register (including any spillages of fuels, chemicals or any other material).
- 8.12.2** 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.
- 8.12.3** Keep records relating to monitoring and auditing on site and avail them for inspection to any relevant authorised officials.
- 8.12.4** Keep copies of all environmental reports submitted to the Department.
- 8.12.5** Keep the records of all permits, licences and authorisations required by the operation.
- 8.12.6** Compile a monthly monitoring report and make it available to the Department if requested.
- 8.12.7** The duties and responsibility of the ECO should not be seen as exempting the holder of the amended EA from the legal obligations in terms of the NEMA.
- 8.12.8** 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.
- 8.12.9** 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.
- 8.12.10** The holder of the amended EA must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimize the risk involved. Records of training and verification of competence must be kept by the holder amended EA.

8.12.11 In order to prevent nuisance conditions, the holder of the amended EA must ensure that all storage skips and bins are not overfilled.

9. REPORTING TO THE DEPARTMENT

The holder of amended EA must:

- 9.1** Submit and Environmental Audit Report to this Department bi-annually and such report must be done by qualified Environmental Assessment Practitioner and the audit report must specify whether conditions of this environmental authorization and EMPr/closure plan are adhered to;
- 9.2** Identify and assess any new impacts and risks as a result of undertaking the activity, if applicable;
- 9.3** Identify shortcomings in the EMPr/closure plan, if applicable;
- 9.4** Identify the need, if any, for any changes to the management, avoidance and mitigation measures provided for in the EMPr/closure plan;
- 9.5** If applicable, specify that the corrective action/s taken for the previous audit's non-conformities, was adequate;
- 9.6** Specify the name of the auditor and must be submitted by the holder to the competent authority within 30 days from the date on which the auditor finalized the audit.
- 9.7** 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.
- 9.8** Any complaint received from 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.
- 9.9** The holder of the amended 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.
- 9.10** The holder of the amended 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

- 9.11 caused pollution of the environment, health risks, nuisance conditions or water pollution.
- 9.12 The holder of the amended 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 –
- 9.12.1 Correct the impact resulting from the incident;
 - 9.12.2 Prevent the incident from causing any further impact; and
 - 9.12.3 Prevent a recurrence of a similar incident.
- 9.13 In the event that measures have not been implemented within 21 days of the incident, the measures which have been outlined in the EIAR and EMPR implemented are inadequate, the Competent Authority may implement the necessary measures at the cost of the holder of the amended EA.

10. SITE SECURITY AND ACCESS CONTROL

- 10.1 The holder of the amended 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.
- 10.2 Weatherproof, 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 amended EA and the person responsible for the operation of the site.

11. EMERGENCY PREPAREDNESS PLAN

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

- 11.1 Site Fire

- 11.2 Spillage
 - 11.3 Natural disasters such as floods
 - 11.4 Industrial action
 - 11.5 Contact details of police, ambulances and any emergency centre closer to the site.
 - 11.6 The holder of amended 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.
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12 INVESTIGATIONS

- 12.1 If in the opinion of the Competent Authority, nuisances or health risks may be or is occurring on the site, the holder of the amended EA must initiate an investigation into the cause of the problem or suspected problem.
- 12.2 If in the opinion of the Competent Authority, pollution may be or is occurring, the holder of the amended 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.
- 12.3 Investigations carried out in terms of conditions 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.
- 12.4 Should the investigation carried out as per conditions above reveal any unacceptable levels of pollution, the holder of the amended EA must submit mitigation measures to the satisfaction of the Competent Authority.

13 COMMISSIONING AND DECOMMISSIONING

The commissioning and decommissioning of individual activity within the overall listed prospecting activity must take place within the phases and timeframes as set out in amended EA or EIAR and EMPr.

14. SITE CLOSURE

14.1 The holder of amended EA must apply for a Closure Certificate in terms of Section 34 of Mineral and Petroleum Resources Development Amendment Act 2008 (Act No. 49 of 2008), within 180 days of occurrence of lapsing, abandonment, cancellation, cessation, relinquishment and completion of development.

14.2 The application for a closure indicated above must be submitted together with all relevant documents as indicated in Section 34 of Mineral and Petroleum Resources Development as amendment Act, 2008 (Act No.49 of 2008).

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

14.4 The holder of amended EA remains responsible for any environmental liability, pollution or ecological degradation, compliance with the conditions of amended EA and the management and sustainable closure thereof until the Minister has issued a Closure Certificate in terms of Section 34 of Mineral and Petroleum Resources Development Amendment Act, 2008 (Act No. 49 of 2008). Where necessary the Minister may retain certain portion of financial provision for residual, health or environmental impacts that might be known in future.

15 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 harmonization 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.

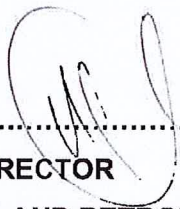
16 DISCLAIMER

The Department of Mineral Resources 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.

17 RECOMMENDATIONS

In view of the above, the NEMA principles, compliance with the conditions stipulated in this amended EA, and compliance with the BAR and EMP/closure plan, the Competent Authority is satisfied that the proposed listed activity 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 can be mitigated to acceptable levels. The authorization is accordingly granted.

Amended Environmental Authorisation Approved By



.....
CHIEF DIRECTOR
MINERAL AND PETROLEUM REGULATION
NORTH WESTERN REGIONS

DATE... 04/10/2022