



Applicant:
 Ugie Mac Quarry (Pty) Ltd
 P O Box 44
 Ugie,
 5470
 Tel: 045 933 1273

BACKGROUND INFORMATION DOCUMENT

16 November 2018

To whom it may concern

RE: NOTICE OF APPLICATION IN TERMS OF SECTION 22 OF THE MINERALS AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT NO. 28 OF 2002) AND THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998 NEMA) AS WELL AS THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 (AS AMENDED)

Ugie Mac Quarry (Pty) Ltd ("Applicant") intends to apply for a Mining Right to mine 11.1856 ha of dolerite on Farm Rosendal 379, Maclear within the Elundini Local Municipality and Magisterial District of Maclear in the Eastern Cape Province.

SITE DESCRIPTION

The application area is situated approximately ± 7 km southwest of the town Maclear, and ± 11 km northeast of the town Ugie. The extent of the proposed mining area is approximately 11.1856 ha, and the GPS coordinates of the area to be applied for are as listed below.

GPS COORDINATES OF MINING RIGHT AREA	
DEGREES MINUTES SECONDS	DECIMAL DEGREES
a. 31.126795°S;	a. 28.307711°E
b. 31.128013°S;	b. 28.307529°E
c. 31.128914°S;	c. 28.308124°E
d. 31.129425°S;	d. 28.308124°E
e. 31.12988°S;	e. 28.309077°E
f. 31.130552°S;	f. 28.309041°E
g. 31.130345°S;	g. 28.310949°E
h. 31.12924°S;	h. 28.312273°E
i. 31.128897°S;	i. 28.31184°E
j. 31.12828°S;	j. 28.311677°E
k. 31.128275°S;	k. 28.311133°E
l. 31.127901°S;	l. 28.311051°E
m. 31.12743°S;	m. 28.31002°E
n. 31.127133°S;	n. 28.308761°E
o. 31.126795°S;	o. 28.307711°E

the goal isn't to live forever, it is to protect a planet that will

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Figure 1: Google Earth (2018) Satellite view of the proposed Maclear Mining Right area of Ugie Mac Quarry (Pty) Ltd

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LEGAL COMPLIANCE

An application for a mining right in terms of Section 22 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) [MPRDA] will be submitted to the Department of Mineral Resources (DMR).

The proposed project triggers the following listed activities in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) [NEMA] and the Environmental Impact Assessment [EIA] Regulations 2014 (as amended 2017) and therefore requires an environmental impact assessment to be carried out in order to obtain environmental authorisation:

GNR Listing notice 1

■ GNR 327 Listing Notice 1 of 2017 Activity 22 (Mining Area):

The decommissioning of any activity requiring –

- i) a closure certificate in terms of section 43 of the Mineral and Petroleum Resources Development Act, 2002 (act No. 28 of 2002); or*
- ii) a prospecting right, mining right, mining permit, production right or exploration right, where the throughput of the activity has reduced by 90% or more over a period of 5 years excluding where the competent authority has in writing agreed that such reduction in throughput does not constitute closure.*

but excluding the decommissioning of an activity relating to the secondary processing of a –

- (a) mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource; or*
- (b) petroleum resource, including the refining of gas, beneficiation, oil or petroleum products; – in which case activity 31 in this Notice applies.*

■ GNR 327 Environmental Impact Assessment Regulations Listing Notice 1 of 2014 Activity 27 (Mining and Stockpile Area):

The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation.

BACKGROUND INFORMATION DOCUMENT

■ GNR 327 Environmental Impact Assessment Regulations Listing Notice 1 of 2014 Activity 28 (Mining and Stockpile area):

Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or before 01 April 1998 and where such development will occur outside an urban area, where the total land to be developed is bigger than 1 hectare.

■ GNR 327 Environmental Impact Assessment Regulations Listing Notice 1 of 2014 Activity 35 (Mining and Stockpile area)

The expansion of residential, retail, recreational, tourism, commercial or institutional developments on land previously used for mining or heavy industrial purposes, where the increased development footprint will exceed 1 000 square meters; excluding—

- (i) where such land has been remediated in terms of part 8 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies; or*
- (ii) where an environmental authorisation has been obtained for the decommissioning of such a mine or industry in terms of this Notice or any previous NEMA notice; or*
- (iii) where a closure certificate has been issued in terms of section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) for such land.*

GNR Listing Notice 2

■ GNR 325 Listing Notice 2 of 2017 Activity 17 (Mining Right Area):

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 –

- (a) Associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource; or*

The primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing 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.

BACKGROUND INFORMATION DOCUMENT

OTHER LEGISLATION TRIGGERED BY THE PROPOSED PROJECT:

- An application for a Mining Right in terms of Section 22 of the Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002) will be submitted to the Department of Mineral Resources – Eastern Cape.
- A Heritage Impact Assessment in terms of the National Heritage Resources Act No. 25 of 1999 will be conducted and submitted to the South African Heritage Resources Agency.

PROJECT DESCRIPTION

Ugie Mac Quarry (Pty) Ltd currently holds a mining permit (with reference number EC30/5/1/3/2/10100MP) where the mining of dolerite in an existing quarry is in progress. The proposed Mining Right will enclose the Mining Permit area. Owing to the availability of the product in question, Ugie Mac Quarry (Pty) Ltd intends to extend the existing quarry and apply for a Mining Right to mine on the 11.1856 ha of the remaining extent of the farm Rosendal 379, Maclear. The area earmarked for the proposed mining falls within the Elundini Local Municipality and Magisterial District of Maclear, Eastern Cape Province.

The mining methods will make use of blasting means of explosives in order to loosen the hard rock, the material is then loaded and hauled out of the excavation to the mobile crushing and screening plants. The aggregate will be stockpiled and transported to clients via truck. All activities will be contained within the boundaries of the site. The applicant intends to win material from the area for at least 15-20 years. The aggregate / stone gravel to be removed from the quarry will be used for road construction in the vicinity.

THE MINING ACTIVITIES AND INFRASTRUCTURE CONSISTS OF THE FOLLOWING:

The mining activities will consist of the following:

- 1 Expanding the existing quarry;
- 2 Stripping and stockpiling of topsoil;
- 3 Blasting;
- 4 Excavating;
- 5 Crushing;
- 6 Stockpiling and transporting;

BACKGROUND INFORMATION DOCUMENT

- 7 Sloping and landscaping upon closure of the site; and
- 8 Replacing the topsoil and vegetation the disturbed area.

The mining site will consists of the following:

- 1 Drilling equipment;
- 2 Excavating equipment;
- 3 Earth moving equipment;
- 4 Mobile crushing and screening plants;
- 5 Weighbridge;
- 6 Containers for administration, storage and workshop purposes;
- 7 Ablution facilities;
- 8 Generator; and
- 9 Water winning and storage equipment.

The applicant will exclusively make use of temporary equipment that can easily be removed upon rehabilitation of the affected area.

ACCESS ROUTE:

- Access to the farm is from the provincial surfaced road R58, from the Maclear town.
- The applicant will strive to make use of the existing farm roads as far as possible, however some new roads, or upgrading of existing roads may be required to reach allowable mining areas. The construction of a new access road will be in consultation with the landowner and will as far as possible be kept to already disturbed areas following fence lines or similar infrastructure.
- Haul roads will be extended as mining progress, and will be rehabilitated as part of the final reinstatement of the area.
- Informal roads already exist on site and no new roads will be constructed. Vehicular movement will be restricted to existing access routes to prevent crisscrossing of tracks through undisturbed areas.
- Should any other access roads to the mining area be required it will be established in consultation with the landowner however existing roads will be used as far as practicable.

WATER USE:

BACKGROUND INFORMATION DOCUMENT

- Water for processing purposes will be extracted from the existing quarry.
- Potable water will be obtained from existing boreholes off site and delivered to the site.

ELECTRICITY:

- The applicant will make use of generators to power the processing plant. Eskom electricity will be used for office building and weighbridge.

BRIEF SITE DESCRIPTION

VISUAL EXPOSURE:

- The nature of the proposed mining method and the use of temporary infrastructure does not create a significant visual impact, and the activities will be screened by the existing vegetation of the study area. Unless mining takes place immediately adjacent to the provincial road, no mining activities will be visible to road users, and it is believed that the negative visual impact on the landowners will be of low significance should the applicant rehabilitated as mining progress.
- The applicant should however ensure that housekeeping is managed to standard, as this will mitigate the visual impacts during the operational phase of the mine.
- Upon closure the site will be rehabilitated and sloped to insure that the visual impact on the aesthetic value of the area is kept to a minimum.
- The site will have a neat appearance and be kept in good condition at all times.
- Upon final closure, it will be ensured that all disturbed areas are rehabilitated and sloped to return the footprint to its previous- or a better state.

GEOLOGY AND SOILS

- The areas falls within the Kaapvaal Craton, which is thick, stable block of continental crust that underlines most of the central, northern and eastern parts of South Africa. It was formed by the welding together of ancient blocks of crust by voluminous intrusions of granitoid plutons around 3 gya, which formed a continental crust strong and stable enough to preserve the thick volcano-sedimentary sequences of the Witwatersrand, Ventersdorp and Transvaal Supergroups as well as the massive intrusive of the Bushveld Igneous Complex (Mucina & Rutherford, 2006).
- The soil class of the site are freely drained, structure less soils.

BACKGROUND INFORMATION DOCUMENT

CLIMATE

- Maclear normally receives about 686mm of rain per year, with most rainfall occurring mainly during mid-summer. On average, Maclear receives the lowest rainfall (4mm) in July and highest (118mm) in February.
- The average midday temperature for Maclear ranges from 17°C in June to 26°C in January. The region is the coldest during July when the mercury drops to 1.5°C on average during the night. The area receives very cold winters, often associated with snow. Frost and dew is also common

EXISTING INFRASTRUCTURE:

Mining is currently taking place under the mining permit (with reference number EC30/5/1/3/2/10100MP). The existing infrastructure will be used for the Mining Right application and will include:

- Excavating equipment;
- Earth moving equipment;
- Mobile crushing and screening plants;
- Weighbridge;
- Containers:
 - Administration;
 - Storage and
 - Workshop.
- Ablution facilities;
- Waste Management;
- Generator; and
- Water winning and storage equipment.

A Dynamite Explosive facility used for blasting is situated approximately 236.40m from the mining boundary. This facility does not form part of the mining right application. The area is locked and secured with a valid explosive licence. Only a certified blasting contractor has authorised access to the magazine within the facility.

BACKGROUND INFORMATION DOCUMENT

FLORA

- The application area falls within the Grassland biome, part of the Eastern Cape Biodiversity Conservation Plan (ECBCP) - Terrestrial Critical Biodiversity Areas (CBAs). The expansion of the quarry in the north westerly direction will result in the removal of indigenous vegetation to allow access to the mineral. The area of vegetation to be removed is approximately 3ha. However, due to the overall site disturbance, an Ecological Assessment will not be conducted. A Botanical Survey report from the Mining Permit application will be used.
- The vegetation cover of the application area varies from highly degraded to natural with a well-established layer of indigenous vegetation. The vegetation cover of the area is East Griqualand Grassland.
- A list of red data and / or protected species that may be present within the natural areas will be compiled during the Environmental Impact Assessment, and the applicant will have to obtain the necessary permits from the Eastern Cape Department of Economic Development and Environmental Affairs prior to the removal, translocation or destruction of the said species.
- Upon rehabilitation, the disturbed footprint will be vegetated with locally adapted indigenous grass species.

SURFACE AND GROUND WATER:

- There are no wetlands within the site or 500m from the site.
- The Maclear area consists of various rivers and river catchments, however none transverse or are in close proximity of the site. The Kuntombizinzi river is situated approximately 2 877m west from the site.
- The applicant will not mine within 100 m from any natural water source, and the project is therefore not expected to have a negative impact on the surface and / or ground water of the area.
- As mentioned earlier process water will be extracted from the existing quarry and potable water will be obtained from existing boreholes off site and delivered to the site.

SITES OF ARCHAEOLOGICAL AND CULTURAL INTEREST

- An archaeologist will be contracted to comment on the heritage impact of the proposed activity. The heritage impact assessment will include a desktop study on the palaeontological status, and proposed impact thereto, of the study area.

BACKGROUND INFORMATION DOCUMENT

POTENTIAL ENVIRONMENTAL IMPACTS

DUST:

- After hours, excavation- and earthmoving equipment will remain on-site to lessen the traffic volume on the farm roads.
- The speed of mining equipment travelling on the access roads will be limited to 30 km/h to prevent the generation of excessive dust.
- Roads will be sprayed with water or an environmentally friendly dust-allaying agent that contains no PCB's (e.g. DAS products) if dust is generated above acceptable limits.
- Stockpile- and denuded areas will be moistened when necessary to suppress fugitive dust.
- All disturbed or exposed areas will be re-vegetated as soon as possible during mining to prevent any dust source from being created.
- Water from the existing quarry will be extracted and reused for mineral processing and dust suppression.

FAUNA:

- The fauna at the site will not be impacted by the proposed mining activity as it will be able to move away or through the site, without being harmed.
- Operational areas will be fenced to prevent domestic animal and / or game entering the work areas getting trapped in excavations.

NOISE:

- It will be ensured that employees and staff conduct themselves in an acceptable manner while on site.
- All mining vehicles will be equipped with silencers and maintained in a road worthy condition in terms of the Road Transport Act.
- The noise generated from the mining machinery will be similar to noise generated along the R58 by public vehicles. Blasting noise will be instantaneous and of short duration.
- The type, duration and timing of the blasting procedures will be planned with due cognisance of other land users and structures in the vicinity.
- Surrounding land owners will be notified in writing prior to blasting occasions.

BACKGROUND INFORMATION DOCUMENT

ABLUTION, WASTE WATER & WASTE DISPOSAL:

- Ablution facilities will drain into a septic tank that will be pumped, when necessary, by the municipality or a similar qualified contractor.
- Any effluents containing oil, grease or other industrial substances will be collected in a suitable receptacle and removed from the site, either for resale or for appropriate disposal at a recognised facility.
- Spills will be cleaned up immediately to the satisfaction of the Regional Manager by removing the spillage together with the polluted soil and by disposing of it at a recognised facility.
- Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., will be stored in a container at a collecting point and collected on a regular basis and disposed of at a recognised landfill site. Biodegradable refuse generated will be handled as indicated above.
- No waste will be burned or buried on site.

FINAL REHABILITATION

- Rehabilitation of all the disturbed surface areas shall entail landscaping, levelling, top dressing, land preparation, and weed / alien clearing.
- Replacing the topsoil and vegetation the disturbed area.
- Seasonal hydro seeding (if required) will take place.
- All infrastructures, equipment, and other items used during the mining period will be removed from the site (Section 44 of the MPRDA).
- Waste material of any description, including receptacles, scrap, rubble and tyres, will be removed entirely from the mining area and disposed of at a recognized landfill facility. It will not be permitted to be buried or burned on the site.
- Weed / Alien clearing will be done in a sporadic manner during the life of the mining activities. Species categorised as weeds according to the National Environmental Management: Biodiversity Act (Act No. 10 of 2004) [NEMBA] Alien and Invasive Species Regulation GNR 598 and 599 of 2014 Species regarded as need to be eradicated from the site on final closure.
- Final rehabilitation shall be completed within a period specified by the Regional Manager.

BACKGROUND INFORMATION DOCUMENT

PUBLIC INVOLVEMENT & EIA PROCESS

This document is to inform you about the proposed activity and to determine whether there are any concerns or objections from Interested and Affected Parties (I&AP's) that need to be considered.

As an Interested and Affected Party you are kindly requested to complete the comment form and give any comment / concern or input with regard to the current land use of the area, the environment as well as socio-economic conditions that you feel might be affected by the proposed activity. When submitting response please provide suggestions to mitigate the anticipated impact of each identified activity.

Please contact Kagiso Mohlamme at the contact details as presented in the letterhead or at kagiso.m@greenmined.co.za through any means should you need more information, have concerns or comments that need to be considered or if you want to be registered as an interested and / or affected party and would like to receive a copy of the Draft Scoping Report (DSR) on or before **8 January 2019**. If no comment(s) is received from you on or before **8 January 2019**, it will be accepted that you do not have any objections / comments with regard to the project and do not require any further documentation.

Should you be interested, you are also invited to a public meeting where the proposed project will be discussed. The meeting details are as follows:

- **Date: 29 November 2018**
- **Time: 11am**
- **Venue: Ugie Mac Quarry office, 2 Boom Street, Ugie**
- **GPS Coordinates: 31°11'58.2"S 28°13'42.2"E or -31.199485, 28.228398**
- **Directions to the meeting site: Leaving Maclear town, head southwest towards R396. Turn left on R396. Turn right onto Uitsig Street. Take a sharp right onto R56. Continue for 20km, turn left onto Nassau Street. Turn right at the 1st cross street onto Church Street.**

A register of Interested and Affected Parties (I&AP's) will be opened and maintained containing the names, contact details and address of all persons who have submitted written comments, attended meetings or have in writing requested to be registered and all organs of state which have jurisdiction in respect of the activity. Please note that only registered I&AP's and stakeholders will be entitled to comment on reports and plans to be submitted to the Department provided that the party provide its name, contact details and address and discloses any direct business, financial, personal or other interest which he / she may have in the approval or refusal of the applications.

BACKGROUND INFORMATION DOCUMENT

The Draft Scoping Report (DSR) will be submitted to the Department of Mineral Resources – Eastern Cape (DMR) for review purposes. This report will also be made available to the public for a **30 days** review period. An electronic copy of the report will be published on the Greenmined Environmental website (www.greenmined.com). All registered I&AP's and stakeholders will be notified of the commenting period in advance as above.

The DSR will then be updated to reflect the comments received during the public commenting period. Thereafter, Final Scoping Report (FSR) will be submitted to DMR for its consideration as part of the authorization process in terms of the NEMA, 2014 regulations (as amended 2017). A copy of the FSR will be made available on the Greenmined Environmental website. Once the Final Scoping Report has been accepted by the DMR, the Draft Environmental Impact Assessment Report (DEIAR) will be prepared and also made available to the public for a 30-day commenting period. An electronic copy of the DEIAR report will also be published on the Greenmined Environmental website. All registered I&AP's and stakeholders will be notified of the commenting period in advance.

Upon expiry of the commenting period the DEIAR will be updated to reflect the comments received during the public commenting period. Thereafter, the Final EIAR will be submitted to the DMR for its consideration as part of the authorization process in terms of the NEMA 2014 regulations (as amended by GNR 326 effective 7 April 2017). A copy of the final report will be made available on the Greenmined Environmental website. All registered I&AP's and stakeholders will be notified in writing within 14 days of the date of the decision of the outcome of the application, including the reasons for the decision and the right of appeal.

Upon the cessation of the mining activities, the applicant will apply for closure certificate as per the Government Notice 940 of the National Environmental Management Act, 1998 [NEMA] (Act No. 107 of 1998) together with section 43, Regulation 55, 60 and 62 of the Minerals and Petroleum Resources Development Act, 2002 (MPRDA) (Act No. 28 of 2002). The post land use mining will be at the discretion of the Landowner.



Applicant:
Ugie Mac Quarry (Pty) Ltd
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Tel: 045 933 1273

BACKGROUND INFORMATION DOCUMENT

CONTACT DETAILS

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Tel	
Fax/Faks	
E-mail/E-pos	

the goal isn't to live forever, it is to protect a planet that will

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Unit M01, Office No 36, AECI Site, Baker Square, Paardevlei, De Beers Avenue, Somerset West, 7130
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Directors: S Smit; R L Shedlock; C Weideman | Reg No: 2012/055565/07 | VAT No. 4040263032

BACKGROUND INFORMATION DOCUMENT

COMMENTS/ OPMERKINGS

No Objection:	
Request additional information:	
Concerns:	

You can add more pages if need be.

Signature: _____

BACKGROUND INFORMATION DOCUMENT

Are there any other organisations or individuals that you feel should be invited to comment? If so, please provide their contact details:

Contact name:
Organisation (if applicable):
Address:
Tel:
Fax
E-mail

Your feedback is valued and will be addressed appropriately.

Kind Regards



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Kagiso Mohlamme
Greenmined Environmental