# KOMANI QUARRY A PORTION OF LESSEYTON FARM NO 81, KOMANI (QUEENSTOWN), EASTERN CAPE PROVINCE

**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT** 

DMRE REFERENCE NUMBER:	EC 30/5/1/3/2/10498 MP
AUDIT PERIOD:	August 2023 – May 2024

#### PREPARED FOR:

Komani Quarry (Pty) Ltd Contact Person: Mr M Zerwick

Tel: 045 857 0092 Cell: 071 683 7511

Address:

Doornhoek Farm N6

Lesseyton Queenstown

#### PREPARED BY:

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### 1. PROJECT SPECIFIC DETAIL

ITEM	MINING PERMIT HOLDER			
Company Name	Komani Quarry (Pty) Ltd			
Company Name	Romani Quarry (Fty) Etu			
Contact Person	Mr. Malan Zerwick			
Tel Number	045 857 0092			
Cell Number	071 683 7511			
E-mail Address	Malan.ze@raumix.co.za			
Address	Doornhoek Farm N6 Lesseyton Queenstown			
ITEM	CONSULTANT DETAIL			
Company Name	Greenmined Environmental (Pty) Ltd			
Contact Person	Christine Fouché			
Tel Number	021 851 2673			
Cell Number	082 811 8514			
E-mail Address	Christine.f@greenmined.co.za			
Postal Address	Postnet Suite 62 Private Bag x15 Somerset West 7129			
ITEM	LOCATION AND AREA INFORMATION			
Site Name	Komani Quarry			
Property Description	Portion of Lesseyton Farm No 81			
Location	Komani Quarry is situated ±9 km west of Komani (Queenstown). The mining permit area is adjacent to the Queenstown Quarry mining right.			
Size of Mining Area	4.9 ha			





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### 2. ENVIRONMENTAL AUDIT REPORT

#### **PROJECT DETAIL**

Permit Number:	EC 30/5/1/3/2/10498 MP	Date of Commencement:	2021
Site Name:	Komani Quarry	Inspection Date:	21 May 2024
Permit Holder:	Komani Quarry (Pty) Ltd	Other Authorisations:	N/A
Report Number:	02	Other AdditionSations.	IVA

### <u>DETAIL OF AUDITOR</u> (APPENDIX 7 SUB-REGULATION 3(A) & (B)):

ECO:	Christine Fouché	
EXPERTISE:	Zoology with eighteen years experion compliance monitoring in South Af Assessment Practitioner (regis	ture Conservation and a BSc in Botany and ence in environmental impact assessments and rica. Ms Fouché is a registered Environmental stration no: 2019/1003) with EAPASA tioners Association of South Africa) since 2019.
DECLARATION OF INDEPENDENCE:	<ul> <li>I act as independent environmental will perform the work relating results and findings are not faven I have expertise in conducting knowledge of the Act and regulation I will adhere to and comply with Environmental Management Regulations.</li> <li>I do not have and will not have</li> </ul>	as environmental control officer declare that—ental control officer in this compliance audit; to the audit in an objective manner, even if the ourable to the holder of the authorisation; g environmental compliance audits, including lations that have relevance to the activity; a all responsibilities as indicated in the National Act and Environmental Impact Assessment e any vested interest in the activity other than med in terms of the Environmental Impact (as amended).  Date: 24 June 2024





### **SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT**

(APPENDIX 7 SUB-REGULATION 3(C)):

This environmental audit report was compiled in terms of the requirements of the NEMA EIA Regulations, 2014 (as amended). The EAR focussed on Part B of the EMPR (2019) in particular, Section d) Management Objectives, Section f) Management Actions, and the Mechanisms for Monitoring Compliance (g-k).

#### **OBJECTIVE:**

The objective of the environmental audit report (EAR) is to evaluate compliance of the operational activities with the Environmental Management Programme Report (EMPR) as approved by the Department of Mineral Resources and Energy. To evaluate the effectiveness of the EMPR, identify shortcomings, and discern the need for changes to the EMPR.

#### **INSPECTED AREAS:**

The inspection was desktop based as the mining area could not be visited.

### ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE (APPENDIX 7 SUB-REGULATION 3(F)):

The assumptions made in this document, stem from specific information gathered during the site audit and background information gathered from site management. This audit did not consider health and safety aspects and was not intended as a legal assessment. As mentioned previously the mining area could not be visited and therefore all findings are based on the information supplied by site management.





#### **LOCATION**

Site Location:	Komani Quarry is situated ±9 km west of Komani (Queenstown). The mining permit area is adjacent to the Queenstown Quarry mining right.				
Site Map:	Raumix Queenstown Quarry				
	A 31°53'45.701"	26°47′41.399″			
	B 31°53'44.686" 26°47'49.909" C 31°53'41.399" 26°47'54.802"				
Site Coordinates:	D 31°53'38.000"	26°47'50.899"			
	E 31°53'39.998"	26°47'48.001"			
	F 31°53'40.999"	26°47'40.999"			

#### **PROJECT DESCRIPTION**

The mining method make use of blasting to loosen the hard rock; upon which the loosened material is transported to the existing crushing and screening processing plant of Queenstown Quarry where it is screened to various sized stockpiles before it is sold and transported from site to the clients. No processing takes place within the mining permit footprint.

### **SITE CONDITIONS**

Sunny windless day with dry soil conditions.





### REPORTABLE ENVIRONMENTAL INCIDENTS

Incident Date:	
Incident No:	According to site management, no reportable incidents occurred during the
Incident:	audit period.
How addressed:	
When addressed:	

### ADOPTED METHODOLOGY (APPENDIX 7 SUB-REGULATION 3(D):

COMPLIANCE SCORE	DESCRIPTION			
1	Task not achieved			
2	Task 20% achieved			
3	Task 50% achieved			
4	Task 80% achieved			
5	Task 100% achieved in accordance with the EMP			

NON-COMPLIANCE SCORE	DESCRIPTION
1	LOW – Mitigation not needed / mitigation measures to be maintained
2	MEDIUM – Mitigation should be considered
3	HIGH – Mitigation compulsory





### **INSPECTION ASPECTS**

DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE	STATUS	COMMENTS
		SCORE EGISLATION COM	PLIANCE:	
National Environmental Management Act, 1998				-
(Act No 107 of 1998) and the Environmental Impact Assessment Regulations, 2014 (as amended)	5	-	Compliant	
Copy of the EA and EMPR available on site	5	-	Compliant	Electronic copies of the EA and EMPR (2019) are available on site. However, it is proposed that a copy of the DMRE stamped EMPR is added to the site file.
Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002)	5	-	Compliant	-
Mining permit available on site	5	-	Compliant	-
Mining area demarcated with beacons	5	-	Compliant	Site management confirmed that the mining area was demarcated with the assistance of a surveyor.
National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004)	N/A	-	-	The mining operation does not trigger the NEM:AQA.
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008)	5	-	Compliant	When generated the waste of the mining area is incorporated into the Queenstown Quarry waste disposal system.
National Water Act, 1998 (Act 36 of 1998)	N/A	-	-	The mining operations do not trigger the NWA.
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA)	4	3	To be addressed	According to site management Thornapple ( <i>Datura stramonium</i> ) and Wild Tabacco ( <i>Nicotiana glauca</i> ) did germinate in the mining area. These plants must be removed.
Hazardous Substances Act, 1973 (Act 15 of 1973)	N/A	-	-	No chemicals/products are stored at the mining area.
	MITIGATION F	PROPOSED BY SA	NRAL (EMPR F	PG 117):
No structure erected closer than 30 m from the national road reserve fence or 500 from any point of intersection.	5	-	Compliant	-





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Approval from SANRAL obtained for access to the N6.	N/A	-	-	The mining area is reached via the existing access road of Queenstown Quarry.
SANRAL not held liable for noise from the national road that may presenting a problem on site.	N/A	-	-	-
Stormwater discharged or diverted from the national road received and disposed of.	N/A	-	-	Stormwater from the road cannot reach the mining area.
Advertising erected along the national road approved by SANRAL. No advertising during construction phase.	N/A	-	-	This mining operation does not require additional advertising.
Approval for establishment submitted to SANRAL for approval.	N/A	-	-	The mining activities does not impact the national road due to its distance from the road and the nature of the activities.
	VISUAL (	CHARACTERISTIC	S (EMPR PG 1	52):
Site kept neat and in good condition.	TBC	-	-	This could not be confirmed as the site could not be visited.
Mining equipment stored in a dedicated area when not in use.	5	-	Compliant	Management confirmed that all equipment and machinery leaves the mining area at night and park at Queenstown Quarry.
Vegetation removal limited and only stripped immediately prior to mining.	5	-	Compliant	This is evident on the recent high resolution drone photo of the area.
Excavations contained to the approved footprint.	5	-	Compliant	-
Equipment removed upon rehabilitation and area returned to prior status.	N/A	-	-	Not yet applicable.
	CRITICAL	BIODIVERSITY AR	EA (EMPR PG	153):
20 m no-go buffer zone demarcated (visible beacons) from boundary of CBA. No mining in buffer.	5	-	Compliant	Management confirmed that the buffer has been demarcated and no mining entered the no-go zone.
Measures to limit fly rock implemented.	5	-	Compliant	The mine makes use of electronic blasting that reduces fly rock.
Fly rock collected from CBA (when applicable).	N/A	-	-	Not yet applicable.
Employees trained on the buffer area and unauthorised entry prevented.	5	-	Compliant	The buffer area was demarcated, and employees know that entry is not allowed.





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS	
		FAUNA (EMPR P	G 154):		
Employees educated (toolbox talks) on the handling of fauna in the work areas.	5	-	Compliant	Toolbox talks include faunal topics.	
No fauna killed, harmed, sold, played with	5	-	Compliant	-	
Trapped animals reported to site management.	N/A	-	1	No animals were trapped during the audit period.	
No snares set or nests raided of eggs/young.	5	-	Compliant	Management confirmed that none was identified yet.	
	GROL	JNDCOVER (EMPR	PG 153, 158):		
Botanist plant rescue walk-through and report done.	5	-	Compliant	David Hoare Consulting (Pty) Ltd conducted a Terrestrial Biodiversity and Plant Species Assessment (TBPSA).	
Destruction/removal plant permit obtained from DEDEAT-EC.	5	-	Compliant	Although the site had a plant removal permit, it expired in 2020. To date mining did not encroach the protected species, and therefor no plants had to be removed yet. An application for a new permit will be submitted to DEDEAT-EC when necessary.	
Bush clearance only commenced after botanist cleared area.	1	1	Rectified	Mining at the site commenced in 2021 while the TBPSA was only commissioned in June 2022 therefore a small section of	
Plant removal approved by the ECO.	5	-	Compliant	the mining area was cleared prior to the botanist inspecting it. The remaining area has now been surveyed and may be cleared if plant permits are obtained for the two species of importance.	
Invasive plant species management plan implemented on site.	4	3	To be updated	The mining permit area must be added to the invader plants management plan of the site as well as the action plan.	
All stockpiles free of invasive plant species.	4	3	To be addressed	All problem plants must be removed from the mining area/stockpiles.	
Declared invader/exotic species controlled on rehabilitated areas.	N/A	-	-	Not yet applicable as no rehabilitation occurred yet.	
CULTURAL AND HERITAGE ASPECTS (EMPR PG 154):					
Contact number of an archaeologist available on site.	5	-	Compliant	-	
Mining contained to approved development footprint.	5	-	Compliant	-	





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Chance find procedure implemented when discoveries made according to EMPR requirements.	N/A	-	-	No discoveries were made yet.
	Α	IR QUALITY (EMP	R PG 155):	
Fallout dust monitoring equipment in place and monitoring system extended to include Komani Quarry.	5	-	Compliant	Two of the fallout dust monitoring units are within proximity to the mining permit boundaries.
Gravimetric dust monitoring implemented.	5	-	Compliant	-
Dust suppression equipment operational.	N/A	-	-	Management mentioned that the mining area cannot be reached by the water truck (due to the steep gradient of the road).
Speed reducing signage on access roads.	5	-	Compliant	-
Dust suppression implemented.	1	3	To be addressed	As the water truck cannot reach the site, no dust suppression is implemented.
Continuous assessment of all dust suppression equipment implemented to confirm effectiveness.	N/A	-	-	No dust suppression equipment used on site.
Speed of vehicles controlled to lessen dust generation and road deterioration	5	-	Compliant	-
Areas devoid of vegetation minimised.	5	-	Compliant	-
	NOI	SE AMBIANCE (EN	MPR PG 156):	
Personal noise exposure monitoring implemented (quarterly).	5	-	Compliant	Noise monitoring of the area forms part of the Queenstown Quarry monitoring.
Signage indicating noise zones available.	N/A	-	-	As there is no processing equipment at the mining area, no noise zones have been demarcated.
Silencers fitted to project related vehicles.	5	-	Compliant	-
No loud music permitted at the mining area.	5	-	Compliant	-
Type, duration, and timing of the blast planned with due cognizance with other land users.	5	-	Compliant	-
Surrounding landowners notified in writing prior to each blast.	5	-	Compliant	The surrounding landowners are notified via a Whatsapp Group and a siren indicates an impending blast.





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
	GEOLO	GY AND SOIL (EM	PR PG 157, 160	
Stormwater management structures in place at the topsoil stockpile area.	5	-	Compliant	The topsoil of the mining area was removed to the topsoil heap of Queenstown Quarry that is protected against stormwater.
Upper 500 mm soil stripped and stockpiled.	5	-	Compliant	Management confirmed that the topsoil of the mining area was stripped.
Topsoil managed and conserved for rehabilitation phase.	5	-	Compliant	As mentioned, the topsoil was removed to the Queenstown Quarry topsoil heap.
Topsoil stripping, stockpiling, and re-spreading done in a systematic way.	5	-	Compliant	Only stripping and stockpiling were done to date.
Topsoil stored on a level already disturbed area inside the mining footprint/at Queenstown Quarry.	5	-	Compliant	-
Topsoil heaps <1.5 m high.	1	1	-	The topsoil heap of Queenstown Quarry is ±2 m high.
Topsoil heaps stored longer than 6 months vegetated (indigenous grass).	5	-	Compliant	The topsoil heap at the Quarry does have a vegetation layer.
Topsoil spread evenly over rehabilitated areas.	N/A	-	•	Not applicable yet.
Topsoil reinstated at the end of the rainy season to maximise vegetation recovery.	N/A	-	-	
Cover crop planted immediately after respreading of topsoil.	N/A	-	-	Not applicable yet.
Runoff water controlled from temporary banks to prevent down-slope erosion.	5	-	Compliant	Management confirmed that there are no erosion on site.
Rehabilitated areas monitored for erosion for at least 12 months after reinstatement.	N/A	-	-	Not applicable yet.
Runoff from compacted areas slowed and dispersed to prevent erosion.	5	-	Compliant	-
No stockpiles on or near steep slopes.	5	-	Compliant	-
WASTE MANAGEMENT (EMPR PG 159):				
Oil spill kit on site.	5	-	Compliant	Queenstown Quarry has an oil spill kit and employees received training in the application of it.
Regular vehicle maintenance, repairs and services only done at the Queenstown Quarry	5	-	Compliant	Confirmed by site management.





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS	
workshop/service area. Drip trays used for emergency repairs.					
Diesel bowser equipped with a drip tray when used on site. Nozzle of bowser resting in a sleeve.	5	-	Compliant	-	
Drip trays used on site and cleaned regularly.	N/A	-	-	No drip trays are used in the mining area, as the machines leaves the mining area at the end of the shift and park at Queenstown Quarry.	
Hazardous waste collected in a suitable receptacle and removed from site to a licenced disposal site or incorporated into the Queenstown Quarry waste disposal system.	N/A	-	-	According to management, the mining area did not yet generate hazardous waste.	
Hydrocarbon spills cleaned from site	N/A	-	-	Not yet applicable as no spills occurred.	
General waste contained in the site vehicles and daily removed to the general waste storage area of Queenstown Quarry.	N/A	-	-	No general waste generated at the mine yet, as employees do not eat in the mining area.	
Re-use and recycling encouraged.	N/A	-	-	Not yet applicable for this mining area.	
No burning or burying of waste on site.	5	-	Compliant	-	
Employees using the formal ablution facilities of Queenstown Quarry, alternatively chemical toilets provided and serviced weekly.	5	-	Compliant	No chemical toilets are used on site. The municipality cleans the septic tank of Queenstown Quarry.	
No pollution of water sources or health hazard due to the use of chemical toilets.	N/A	-	-	-	
Wastewater contained and safely disposed (not discharged into nature).	N/A	-	-	No wastewater generated on site.	
HEALTH AND SAFETY (EMPR PG 161):					
Stocked first aid box on site, and a Level 1 certified first aider.	5	-	Compliant	A first aid box is available at Queenstown Quarry.	
Workers supplied with PPE	5	-	Compliant	-	
Mine health and safety monitored in terms of the MHSA.	5	-	Compliant	-	
Ground vibrations monitored.	5	-	Compliant	Ground vibration monitoring takes place with each blast.	





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE	STATUS	COMMENTS	
	COOKE	SCORE			
Audible warning of a pending blast at least 3 minutes in advance of a blast.	5	-	Compliant	A syren is used to notify of an impending blast.	
	REHABILITA	TION OF MINING A	REA (EMPR P	G 162):	
Excavation used as final depositing area for overburden.	N/A	-	1	This section is not yet applicable as the mining area is still operational.	
Rocks and coarse material dumped into the excavation.	N/A	-	-		
No waste deposited into the excavation.	N/A	-	-		
Topsoil returned to original depth over the overburden and profiled with acceptable contours.	N/A	-	-		
Rehabilitated area seeded with a local adapted indigenous seed mix (if vegetation cover did not return within 6 months of closure).	N/A	-	-		
Invader plant species removed.	N/A	-	-		
All infrastructure, equipment, temporary equipment, and other items removed.	N/A	-	-		
All waste removed from site (none burned/buried).	N/A	-	-		
Rehabilitation completed during a period specified by the Regional Manager (180 days).	N/A	-	-		
ENVIRONMENTAL AWARENESS PLAN (EMPR PG 164):					
Workers inducted and informed of EMPr conditions	5	-	Compliant	-	
Proof of training available	5	-	Compliant	Training registers are available at Queenstown Quarry.	





### COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S (APPENDIX 7 SUB-REGULATION 3(G) & (J)):

The quarry has a complaints box and register where concerns can be logged. No complaints were received during the audit period.

### AUDITING OF EA, EMPR AND REPORTING THEREOF (REGULATION 34):

Date of previous	A t 0000
EAR/EPA:	August 2023
Proof of submission	Proof of submission of the EPA/EAR on 09 October 2023 is available at the site
to DMRE available:	office.
EAR/EPA compiled	
by independent	The 2024 EPA was compiled by Greenmined Environmental (Pty) Ltd.
person with	
environmental	
auditing expertise:	
Potential and	
registered I&AP's	The holder of the mining permit (Komani Quarry (Pty) Ltd must, within 7 days of
notified within 7 days	submission, notify all potential and registered I&AP's of the submission of the
of the submission	report. The report will also be placed on the publicly accessible Greenmined
date, and report	website.
available on publicly	
accessible website	

#### **GENERAL REPORT**

Compliance of the mining site with the EMPR (2008) was reviewed during the site assessment. The mining area recorded a compliance score of 95% for the audit period.

Mining continued at the permit area during the audit period. The footprint is mined in a north-western direction that will in the end meet up with the southern face of the Queenstown Dolerite Quarry. As evident on the high resolution drone images, mining is within the approved footprint and remains outside the no-go buffer area (south of the mine).

#### **Groundcover:**

As discussed on site, should management need to expand the mining footprint to/near any of the plants of importance the plant permit of the site must first be renewed, and the plants relocated to an area outside the earmarked mining footprint. No protected plant species may be removed/destructed prior to receipt of the plant removal permit from the Department of Economic Development, Environmental Affairs, and Tourism (DEDEAT-EC).

The following alien invader plant species can be added to the Alien Invader Management Plan as it is listed as Category 1a or b invasive species in terms of the National Environmental Management: Biodiversity Act, 2004 and





Alien and Invader Species Regulations, 2016 (as amended). In terms of this legislation plants classified as category 1 a or b species are invasive species which must be controlled and whenever possible, removed and destroyed. Any form of trade or planting is strictly prohibited.

•	Datura stramonium	Thorn Apple	Category 1b
•	Lantana rugosa	Bird's Beer/ -Brandy	Category 1b
•	Nicotiana glauca	Wild Tobacco	Category 1b
•	Opuntia ficus-indica	Fig Opuntia	Category 1b
•	Zinnia peruviana	Zinnia	Category 1b

#### **DOCUMENT CHECKLIST:**

Approved EMPR
 Present (DMRE stamped copy to be obtained)

Complaints Register - Present
Environmental Assessment Report (2023) - Present
Environmental Awareness Training - Present
Financial provision (2023) - Present
Incidents register - Present
Mining Permit - Present

Plant Removal Permit - To be Renewed

Proof of waste removal - Present (Queenstown Quarry)

Terrestrial Biodiversity Impact Assessment - Present

Monitoring results - Dust Monitoring (Present)

Noise Monitoring (Present)
Blast Monitoring (Present)

#### **MATTERS TO BE ADDRESSED:**

- 1. Ensure all listed alien invader plant species that establish on site is eradicated before setting seed and include the mining permit area in the Alien Species Management Action Plan of Queenstown Quarry;
- 2. Obtain a copy of the DMRE stamped EMPR;
- 3. Renew the plant removal permit (before sensitive plants are removed);
- 4. Eradicate all problem plants from the mining area.

### ABILITY OF EMPR TO ADEQUATELY MANAGE OR MITIGATE ENVIRONMENTAL IMPACTS (APPENDIX 7 SUB-REGULATION 3(E):

The EMPR of the mining area currently adequately manage and/or mitigate environmental impacts at the mining area.

#### **NEED FOR AMENDMENT OF THE EMPR:**

No need was identified for the amendment of the EMPR.

#### **FINANCIAL PROVISION:**

This report is accompanied by a reassessment of the financial provision calculation for the year 2024 that amounts to R 161 940.36. The 2024 financial provision does not exceed the value of financial guarantee in place at the DMRE, and therefore the MP Holder does not have to provide a shortfall.





### **ECO SIGNATURE**

NAME:	SIGNATURE:	DATE:
Christine Fouche	James "	24 June 2024

### **PHOTOGRAPHS**



Oil spill kit available at Queenstown Quarry



Parking area for the diesel bowser (Queenstown Quarry)











