

**MINING OF GRAVEL ON PORTION 2 OF THE FARM LEEUWENFONTEIN NO 6 RD,
WESTERN CAPE PROVINCE**



FINAL PERFORMANCE ASSESSMENT REPORT (REGULATION 55)

& ENVIRONMENTAL RISK REPORT (REGULATION 60)

& CLOSURE PLAN (REGULATION 62)



DEPARTMENTAL REFERENCE NUMBER:	WC30/5/1/3/2/10294MP
REPORT DATE:	June 2026

<p><u>Prepared for</u></p> <p>Empa Structures Pty Ltd Mmbudzeni Nemukongwe Assistant Manager</p> 	<p><u>On behalf of</u></p> <p>Mr. Barend Bartholomeus Theron Tel: 060 608 3634 Email barry.theron@vodamail.co.za 21 Melsetter Estate Lovemore Heights Port Elizabeth 6070</p>	<p><u>Prepared by</u></p> <p>Greenmined Environmental Contact person: Mrs. M Saal Tel: 021 851 2673 Cell: 076 792 6327 Fax: 086 546 0579 Suite 62 Private Bag X15 Somerset West 7129</p> 
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ABBREVIATIONS

DMPR	Department of Mineral Resources and Energy
DWS	Department of Water and Sanitation
EA	Environmental Authorisation
EAP	Environmental Assessment Practitioner
ECO	Environmental Control Officer
EMP	Environmental Management Programme
Grvl	Gravel
I&AP's	Interested and Affected Parties
MPRDA	Minerals and Petroleum Resources Development Act, 2002

Executive summary

Empa Structures appointed Greenmined Environmental (Pty) Ltd (GM) on behalf of Mr. B Theron to attend to the closure application on portion 2 of the Farm Leeuwenfontein no. 6, Western Cape Province.

The mining area was approximately 4.43 ha in extent. The mine is located approximately 32 Km North West of Murraysburg.

The Closure will be conducted in terms of the Mineral and Petroleum Resources Development Act, 2002 (as amended) and the National Environmental Management Act, 1998 (as amended),

Way forward

The disturbed sections have been decommissioned and rehabilitated. The results hereof are included in this document for consideration, upon which the Minister's delegated authority, the Regional Manager, is required to decide as to whether the closure certificate is to be granted.

A closure inspection was undertaken by Mr. Willem Welding and Ms. Busisiwe Mcobothi on 16 April 2026. The findings recorded during the inspection are outlined below and formed the basis for the recommendation that closure be granted. Closure report included in Appendix 4.

- 1 The area in question was rehabilitated after the mining operations and the sides of the excavation is left at a 45 degree safe angle.
- 2 The vegetation will establish after the recent rain.
- 3 No machinery found on the permit area.
- 4 No dangerous or unhealthy conditions were observed.

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1. PROJECT SPECIFIC DETAIL

ITEM	AUTHORISATION/ CLIENT HOLDER
Company Name	Barend Bartholomeus Theron
Contact Person	Mr. Barend Bartholomeus Theron
Tel Number	060 608 3634
Email	barry.theron@vodamail.co.za
Postal Address	21 Melsetter Estate Bernard Road Lovermore Heights Port Elizabeth 6070
ITEM	CONSULTANT DETAIL
Company Name	Greenmined Environmental
Contact Person	Murchellin Saal
Tel Number	021 851 2673
Cell Number	076 792 6327
E-mail Address	Murchellin.s@greenmined.co.za
Postal Address	Postnet Suite 62 Private Bag x15 Somerset West 7129
ITEM	LOCATION AND AREA INFORMATION :
Site Name	Portion 2 of the Farm Leeuwenfontein no. 6, Magisterial District of Murraysburg, Western Cape Province.
Surveyor General Code	C0520000000000600002

Location	The farm is located 32 km North West of Murraysburg.
Land owner	Mr. Barend Bartholomeus Theron
Contact person	Mmbudzeni Nemukongwe (EMPA)
Address:	21 Melsetter Estate Lovermore Heights Port Elizabeth 6070
Telephone:	060 608 3634
Size of the property:	4.43 ha

2. FINAL PERFORMANCE ASSESSMENT REPORT – OCTOBER 2025

{Regulation 55(9)}

PROJECT DETAIL

Site Names	Portion 2 of the Farm Leeuwenfontein no. 6, Magisterial District of Murraysburg, Western Cape Province.	Date of Commencement:	October 2024 (10294MP)
Reference Numbers:	WC30/5/1/3/2/10294MP	Inspection Date:	October 2025
Authorisation Holder:	Mr. BB Theron	Report Number:	Closure Report
Environmental Control Officer:	Mrs. Murchellin Saal	Other Authorisations:	N/A

DETAIL OF AUDITOR

(APPENDIX 7 SUB-REGULATION 3(A) & (B))

ECO:	Zoë Norval
EXPERTISE:	<p>Ms Z. Norval has a Bsc degree in Environmental Science and a Honours degree in Botany. In her Honours year, she focused mainly on environmental assessments and geographic information systems. Her expertise comprises a range of assisting senior consultants with environmental services, Environmental Control and Environmental Performance Assessments / Compliance Audits, preparation of environmental related documentation, Mining Right and Permit applications and applications for Environmental Authorisations</p>
DECLARATION OF INDEPENDENCE:	<p>I Zoë Norval declare that –</p> <ul style="list-style-type: none">• I act as independent environmental control officer in this compliance audit;• I will perform the work relating to the audit in an objective manner, even if the results and findings are not favourable to the holder of the authorisation;• I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity;• I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations.• I do not have and will not have any vested interest in the activity other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014 (as amended 2017). <div style="text-align: center;"></div> <p style="text-align: center;">Signature of ECO</p> <p style="text-align: right;">Date: 19 October 2025</p>

SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT

(APPENDIX 7 SUB-REGULATION 3(C))

This final performance assessment report/environmental audit report was compiled in terms of the requirements of the NEMA EIA Regulations, 2014 (as amended 2017).

OBJECTIVE:

The objective of this report is to evaluate compliance of the mining activities with the Environmental Management Plan (EMP) as approved by the Department of Mineral Resources.

INSPECTED AREAS:

The inspection included an assessment of the following areas:

- Quarry area
- Overburden and topsoil stockpiles
- Office area; and
- Concrete batching area.

The environmental compliance assessment of the operation was undertaken through an on-foot inspection of the mining site by the Environmental Control Officer, Zoë Norval of Greenmined Environmental, in October 2025. This was followed by a walkthrough inspection by the Principal Inspector of Mines (DMPR) on 16 April 2026 confirming that closure may be granted for the site.

ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE

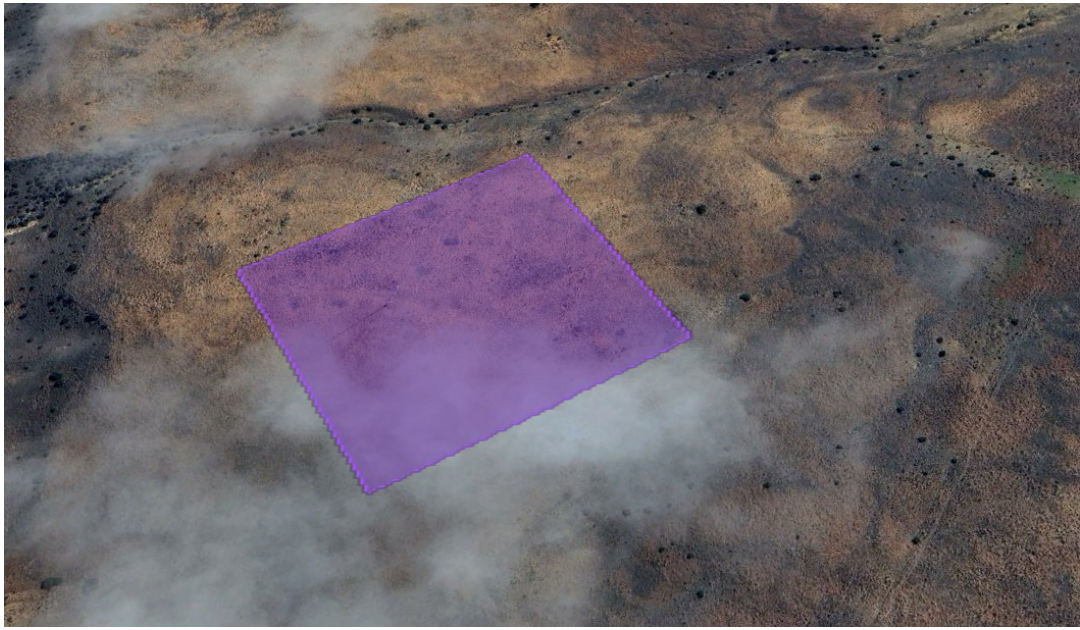
(APPENDIX 7 SUB-REGULATION 3(F))

The assumptions made in this document, stem from specific information gathered during the site audit and background information gathered from site management and landowner. No uncertainties or gaps in knowledge could be identified that is applicable during this audit period.

LOCATION

Location:

Portion 2 of the Farm Leeuwenfontein no. 6, Magisterial District of Murraysburg, Western Cape Province.

Map:	
Site coordinates (System LO 23):	<p style="text-align: center;">DECIMAL DEGREES</p> <p>A-31.66733985°; 23.67437161°</p> <p>B-31.66837912°; 23.67250825°</p> <p>C-31.66990346°; 23.67381181°</p> <p>D-31.66884886°; 23.67569267°</p>

PROJECT DESCRIPTION

Leeuwenfontein Quarry (Mr Barend Bartholomeus Theron) identified a potential 4.43 ha dolerite mining area. The motivation for the mining permit was for the development of wind farms.

The mining activities involved the open cast mining.

Gravel material mined was stockpiled within the quarry and hauled to the wind farms close to the quarry.

All vegetative material were retained to ensure proper vegetation establishment during the rehabilitation phase.

The vegetation material from the area to be mined would be stripped by a bulldozer and stockpiled for use during the rehabilitation phase. All topsoil from the area to be mined would be stripped and stockpiled by a bulldozer for redistribution over the site during the rehabilitation phase. Overburden and coarse material shall be placed concurrently in the excavations or stored adjacent to the excavation, if practicable, to be used as backfill material once the gravel has been excavated. All topsoil, subsoil and vegetative material to be stockpiled for use during the rehabilitation phase. The required gravel material will be excavated by an

excavator and taken to the wind farm in the area by trucks. Excavations shall take place only within the approved demarcated mining area.

In terms of Section 43(4) of the Mineral and Petroleum Resources Development Act, 2002 (as amended) (hereinafter referred to as the "MPRDA"), an application for a closure certificate must be made to the Regional Manager in whose region the land in question is situated within 180 days of the occurrence of the lapsing, abandonment, cancellation, cessation, relinquishment or completion contemplated in subsection 3.

The mining permit remains valid until 4 September 2026, and the application is therefore submitted within the prescribed 180-day period as contemplated in Section 43(4) of the MPRDA.

The Environmental Report submitted in support of this application was completed in October 2025.

A follow-up inspection was undertaken by the Principal Inspector of Mines, Western Cape Province, Department of Mineral and Petroleum Resources (DMPR), on 16 April 2026. Following the inspection, the mine was confirmed to be safe, and the Principal Inspector recommended that the closure application proceed. The recommendation report is included as Appendix 7.

SITE CONDITIONS

Sunny weather conditions.

REPORTABLE ENVIRONMENTAL INCIDENTS

Incident Date:	No environmental incidents were recorded during the audit period.
Incident No:	
Incident:	
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



CLOSURE REPORT – LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

INSPECTION ASPECTS

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
LEGISLATION COMPLIANCE:				
Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)	5	1	Compliant.	The mining permit was issued in 2022, with the second renewal approved and extended until 04 September 2026.
A copy of the mining permit is available on site.	5	1	Compliant.	
National Water Act, (Act No. 36 of 1998)	4	3	Partially Compliant	The site is currently in the process of securing water use approval for Sections C&I and Section 21(a) under reference number WU39964.
National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2010	5	1	Compliant.	-
Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)	5	1	Compliant.	
Copies of the Environmental Authorisation (EA) and EMPr are available on site.	5	1	Compliant.	EMPr is available on site.
National Heritage Resources Act No 25 of 1999	5	1	Compliant	The fossils, near the access road, are being avoided as required.
National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004)	5	1	Compliant	
National Environmental Management Act: Biodiversity Act, 2004 (Act No. 10 of 2004)	5	1	Compliant.	-
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008)	5	1	Compliant.	-
Occupational Health and Safety Act. 1993 (Act No.85 of 1993)	5	1	Compliant.	-
Mine Health and Safety Act, 1996 (Act No. 29 of 1996)	5	1	Compliant.	-
ASPECTS OF THE AFFECTED ENVIRONMENT				
TOPSOIL MANAGEMENT				

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Topsoil is stored in perimeter berms not exceeding 3m in height.	5	1	-	Topsoil has been stored along the perimeter of the site.
The temporary topsoil kept free of weeds.	5	1	-	-
Topsoil stockpiles should be placed on a levelled area and measures should be implemented to safeguard the piles from being washed away or blown away. A cover crop implemented to curb the chances of erosion.	5	1	-	-
Storm- and runoff water should be diverted around the stockpile and topsoil area and access roads to prevent erosion.	5	1	-	-
FAUNA AND FLORA				
A weed and invader plant control management plan must be implemented at the site to ensure eradication of all listed invader plants in terms of Conservation of Agricultural Act (Act No 43 1983).	5	1	-	No alien vegetation was seen on site.
Alien vegetation control is conducted every three months.	5	1	-	
The site manager should ensure that no fauna is caught, killed, harmed, sold or played with.	5	1	-	-
Workers should be instructed to report any animals that may be trapped in the working area.	5	1	-	-
No snares may be set or nests raided for eggs or young.	5	1	-	-
AIR QUALITY AND NOISE				
The liberation of dust into the surrounding environment must be effectively controlled by the use of, inter alia, water spraying and/or other dust-allaying agents that contains no PCB's (e.g. DAS products) if dust is generated above acceptable limits.	5	1	-	-
The site manager ensure continuous assessment of all dust suppression equipment to confirm its effectiveness in addressing dust suppression.	5	1	-	-
Speed on the access roads must be limited to 50km/h to prevent the generation of excess dust.	5	1	-	Appropriate road signage was clearly visible on site.

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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Vehicles and machinery are maintained in good working condition to reduce noise levels.	5	1	-	
Mining and hauling activities occur only during approved working hours (07:00–18:00 weekdays, 07:00–17:00 Saturdays).	N/A	N/A	N/A	Not applicable as mining activities have ceased.
Access roads are maintained in good condition and dust suppression measures are implemented regularly.	5	1	-	
The holder must ensure that employees and staff conduct themselves in an acceptable manner while on site.	5	1	-	-
SURFACE AND STORM WATER MANAGEMENT				
Drainage line to the North of site is demarcated as no-go zone with a 50m buffer.	4	3	Partially Compliant	The site is currently in the process of securing water use approval for Sections C&I and Section 21(a) under reference number WU39964.
Storm water must be diverted around the topsoil heaps, stockpile areas and access roads to prevent erosion and loss of material via trenches and contour structures.	N/A	N/A	N/A	-
Any erosion channel developed during mining/construction period or during vegetation establishment must be restored to a proper condition.	5	1	-	-
Dirty water must be prevented from spilling or seeping into clean water systems.	1	3	Non-Compliant	During the inspection, water was observed leaking from the concrete batching plant into the surrounding environment. Refer to the photographic evidence in the photo report.
Access roads and work areas are checked daily for erosion damage	5	1	-	
VISUAL EXPOSURE				
The site needs to have a neat appearance and be kept in good condition at all times.	4	3	Partial Compliant	Various waste items were found near the site office. Refer to the photographic evidence in the photo report.

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Upon closure, the site needs to be rehabilitated that the visual impact on the aesthetic value of the area is kept to a minimum.	N/A	N/A	N/A	Not yet applicable
A topsoil berm is established along the perimeter to reduce visual impacts.	5	1	-	
All mining activities must take place within the boundaries of the site.	5	1	-	Mining activities were conducted between May and June 2025 within the approved mining permit area and only area of 0.1ha was mined.
Vegetation clearance limited to the actual mining footprint.	1	3	Non-Compliant	The actual corner coordinates of the disturbed area do not correspond with the corners of the approved mining permit boundary. Please see the Google Earth image in the photo report below.
HERITAGE ARTIFACTS				
Known fossil and heritage sites near the access road are avoided.	5	1	-	
Work is halted immediately if any artefacts, graves, or heritage items are uncovered.	5	1	-	
The South African Heritage Resources Agency (SAHRA) and a heritage consultant are contacted immediately if finds occur.	5	1	-	
Work resumes only after written clearance from a heritage specialist.	5	1	-	
MANAGEMENT OF FUEL AND HYDROCARBON PRODUCT				
Hazardous material stored within a bunded area	5	1	-	-
Management of fuel and oil spills	5	1	-	
Drip trays present when refuelling is done outside the service bay	5	1	-	-
Drip trays are used beneath parked vehicles and machinery overnight.	1	3	Non-Compliant	During the inspection, no drip trays were placed beneath stationary vehicles or machinery.
Contaminated soil and waste are removed and disposed of responsibly.	5	1	-	
WASTE MANAGEMENT				
Waste minimization implemented through incorporating waste avoidance, reduction, recycling, treat, reuse and disposal where appropriate	1	3	Non-Compliant	A pile of waste materials was observed near the site office area and a waste bin was overfilled.

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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
No processing area or waste pile may be established within 100m of the edge of any river channel or other water bodies.	5	1	-	-
Any vehicle repairs may only take place within the service bay area (bunded area) and all waste products must be disposed of in a 200 litre closed container/bin found inside the emergency service area.	5	1	-	-
Any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and removed from the site, either for resale or for appropriate disposal at a recognised facility.	5	1	-	Designated hazardous waste bins on site.
Spills must be cleaned up immediately by removing the spillage together with the polluted soil and by disposing of them at a recognised facility.	5	1	-	-
An emergency preparedness plan to address any pollution incidents (i.e. such as oil spillage etc) that occur on site must be developed.	5	1	-	-
Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., must be stored in an animal-proof container with a closable lid at a collecting point and collected on a regular basis and disposed of at a recognised landfill site. Specific precautions should be taken to prevent refuse from being dumped on or in the vicinity of the mine area.	1	3	Non-Compliant	Refer to the above comment regarding waste accumulation near the site office.
No waste must be disposed of through burying, burning, dumped or deposited on the adjacent properties or public places and open spaces.	5	1	-	-
POTABLE WATER AND ABLUTION FACILITIES				
Ablution facilities available on site more than 200m from a watercourse	5	1	-	-
Potable water available on site for use of workers	5	1	-	-
Ablution facilities must be provided with a ratio 1 for every 15 workers and placed in a manner to prevent spills and leaks and	4	3	Partially-Compliant	Proof of safe disposal is still outstanding and must be provided.

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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
maintained according to the operating instruction and must be disposed of at an authorised waste water treatment works.				
FIRE MANAGEMENT				
Fire-fighting equipment that are in good working conditions must be available at all times for the their usage during the occurrence of accidental fires.	5	1	-	-
No open fires at mining site allowed	5	1	-	-
Workers must be adequately trained in the handling of firefighting equipment	5	1	-	-
Smoking must be prohibited in the vicinity of flammable substances.	5	1	-	-
Cooking and heating fires must be permitted only in designated areas with appropriate safety measures.	5	1	-	-
MINING ACTIVITY/ EQUIPMENT MANAGEMENT				
All mining earth-moving equipment & vehicles operating within site boundaries preventing crisscrossing	N/A	N/A	N/A	As above
Perimeter fences are routinely inspected and maintained to prevent livestock and wildlife from entering the quarry area.	N/A	N/A	N/A	-
All site offices, parking areas, and ablution facilities are located within the demarcated quarry area.	5	1	-	
Mining equipment mechanically sound without visible oil leaks and a decrease in smoke discharge	N/A	N/A	N/A	-
Vehicle repairs only conducted in service bay area, and waste products disposed of in containers/bins	N/A	N/A	N/A	-
Rehabilitation done concurrently with mining activities	1	3	Non-Compliant	No rehabilitation has been done so far.
EMPLOYEE AND SAFETY MANAGEMENT				
Workers should have access to the correct personal protection equipment (PPE) as required by law.	5	1	-	-
All operations should comply with the Occupational Health and Safety Act.	5	1	-	-

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Workers inducted and informed of EMP conditions	4	3	Partially Compliant	Induction registers still outstanding
No camping allowed on the mining area	5	1	-	-
Are there signs present, indicating the mining site about the hazard around the construction site and heavy vehicles and speed restrictions	5	1	-	-
Potentially hazardous area must be demarcated with danger tape	5	1	-	-
SITE SECURITY AND ACCESS CONTROL				
Effective access control to the site to reasonably prevent unauthorised entry such as mining area fenced off. Signs indicating the risks involved in unauthorised entry must be displayed at the entrance	5	1	-	-
Newly constructed access roads (if applicable) must be adequately maintained so as to minimise dust, erosion or undue surface damage.	5	1	-	-
Necessary signage and traffic measures must be implemented for safe and convenient access to the site from the adjacent roads.	5	1	-	-
Storm water should be diverted around the access roads to prevent erosion.	1	3	Non-Compliant	Water from the batching plant was observed flowing down the access road. Refer to the photographic evidence in the photo report.
Erosion of access road: Vehicular movement must be restricted to existing access routes to prevent crisscrossing of tracks through undisturbed areas. Rutting and erosion of the access road caused as a result of the mining activities should be repaired by the applicant.	5	1	-	-
Weatherproof, durable and legible notices in at least three official languages applicable in the area must be displayed at the entrance to the site.	4	3	Partial Compliant	The signage displayed is not provided in three official languages, as required.
EMERGENCY RESPONSE PLAN				
Maintain and implement an emergency response plan with an annual review during the audit period and after major emergency and or major accident. The plan must, amongst others, include:	5	1	-	-

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<ul style="list-style-type: none"> • Site fire • Spillage • Natural disasters (floods) • Industrial action • Contact details of police, ambulances and any emergency centre closer to the site 				
Emergency register available on site	4	3	Partial Compliant	Proof of the emergency register is outstanding
All significant pollution incidents must be recorded and reported to Department of Mineral Resources and Energy within forty (48) hours of occurrences.	5	1	-	No pollution incidents have occurred on site.

RESULT OF ASSESSMENT (REGULATION 55(3)(f):

The site has 90% compliance with the approved EMPr for the October 2025 audit period.

The following matters were noted/discussed on site:

1. Legal and Regulatory Compliance

National Water Act (Act No. 36 of 1998):

The site boundary is not within the approved mining permit footprint and is within the 50m buffer zone as required in the EMPr. This constitutes a non-compliance and must be rectified through site boundary adjustment or an approved mitigation plan.

2. Surface and Storm Water Management

Dirty Water Management:

Water from the concrete batching plant is leaking into the surrounding environment. Immediate containment and repair are required. Photographic evidence is available in the photo report. Appropriate drainage channels or diversion structures should be installed to redirect the flow into a sump or a lined dam, allowing the water to evaporate safely.

3. Visual Exposure and Site Housekeeping

General Site Cleanliness:

Various waste items were found at the site office, affecting the visual condition and neatness of the site. Waste removal and regular housekeeping are required.

4. Hazardous Substances Management

Hydrocarbon Management:

Drip trays were not placed beneath stationary vehicles and machinery during inspection. Drip trays must be used consistently to prevent soil contamination.

5. Waste Management

Waste Accumulation:

Piles of waste material and an overfilled waste bin were found at the site office area. Waste must be promptly removed and disposed of at an authorised facility. Proof of disposal must be filled on site – **proof still outstanding.**

General Refuse Handling:

Non-biodegradable waste is not being managed in accordance with EMPr requirements. It must be stored in closed, animal-proof containers and disposed of at a licensed landfill site. Proof of disposal must be filled on site – **proof still outstanding.**

6. Potable Water and Ablution Facilities

Sanitation Compliance:

Proof of safe disposal for ablation waste is still outstanding. Disposal records must be obtained and kept on file to demonstrate compliance – **proof still outstanding.**

7. Employee and Safety Management

Environmental Induction:

The induction register is outstanding. All workers must receive EMP and safety induction, and a signed register must be maintained as evidence – **proof still outstanding.**

8. Emergency Preparedness

Emergency Register:

The emergency register is not available on site. This record must be completed and accessible at all times – **proof still outstanding.**

MATTERS TO BE ADDRESSED ON SITE:

1. Implement stormwater containment and repair leaks at the batching plant.
2. Conduct proper waste removal and maintain regular housekeeping.
3. Provide proof of ablation waste disposal and emergency register.
4. Maintain drip trays under parked equipment.
5. Complete employee induction and maintain attendance records.

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

The EMPr does have the ability to adequately manage and mitigate the environmental impacts on the activities on site.

NEED FOR AMENDMENT OF THE EMPr:

Not at this stage.

The site has 99% compliance with the approved EMPr for the October 2025 audit period and remains the same as no mining recommenced since this date.

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

The EMPr does have the ability to adequately manage and mitigate the environmental impacts on the activities on site.

NEED FOR AMENDMENT OF THE EMPr:

Not at this stage.

ECO SIGNATURE:

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

NAME:	SIGNATURE:	DATE:
Zoë Norval		19 October 2025

PHOTOGRAPHS OF INSPECTION OCTOBER 2025:

ENTRANCE TO THE SITE



SITE OFFICE AREA



STATIONARY VEHICLES/ MACHINERY WITHOUT DRIP TRAYS

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



ACCESS ROADS



TOPSOIL PERIMETER



STOCKPILE AREA





OVERBURDEN



CONCRETE BATCHING AREA

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



QUARRY PIT



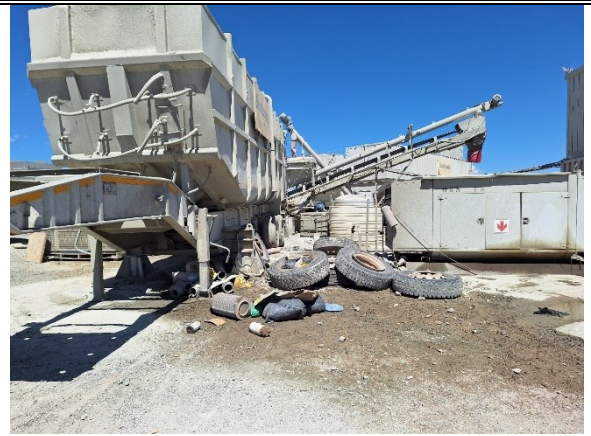
CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



WASTE MANAGEMENT



Waste bin overfilled



Waste to be removed



ABULUTION

DIESEL BOWSER WITHOUT DRIP TRAY

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



FIRE EXTINGUISHER



DIESEL TANK



DRILL HOLES TO BE FILLED (NO FUTURE BLASTING)



WATER TANK FOR CONCRETE MIXING



WATER FLOWING FROM CONCRETE BATCHING PLANT



CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

PROOF OF DOCUMENTATION

mineral resources & energy
Department of Mineral Resources and Energy
REPUBLIC OF SOUTH AFRICA

MINING PERMIT
[Issued in terms of section 27 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)]

DEPT. OF MINERAL RESOURCES AND ENERGY
OFFICE STAMP
05 SEP 2022
MURRAYSBURG
DEPT. OF MINERAL RESOURCES AND ENERGY

DMRE 58

Permit No. K9/2022 Region Western Cape

Office reference WC30/5/1/3/2/10294MP

Permission is hereby granted under and subject to the provisions of the Mineral and Petroleum Resources Development Act, 2002 to [Full name] BAREND BARTHOLOMEUS THERON

Identify number in case of a natural person 6 3 0 4 0 9 5 0 2 3 0 8 1

In the case of a person other than a natural person please indicate:
Co Cc Partnership/Joint venture Other *

* If other, specify

Registration number of Co. or Cc.

To mine for (name of mineral) GRAVEL
On [Full name of farm and subdivision, registration division and no.] Or Portion of Remainder of the farm Leeuwenfontein No. 6
situated in the District of MURRAYSBURG
as indicated on the attached plan No. K9/2022 signed by the Regional Manager on 0 5 0 9 2 0 2 2

Unless this permit is suspended, cancelled, abandoned or lapses, it shall be valid for a period (not more than two years) which shall extend from the date of issuing to 0 5 0 9 2 0 2 4 and may be renewed for three periods each which may not exceed one year.

This permit does not exempt the holder from the requirements of any provision of any other law or from any restrictive provisions or conditions contained in the title deed of the land concerned, nor does it encroach upon the rights of any person who may have an interest in the land concerned.

Signed at Cape Town this 06th day of September 2022

MINISTER OF MINERAL RESOURCES AND ENERGY

MINING PERMIT ON SITE

mineral resources & energy
Department of Mineral Resources and Energy
REPUBLIC OF SOUTH AFRICA

Private Bag X 09, Roggebaai, 8012, Tel: 021 427 1000, Fax: 021 427 1046
The Box, 15th floor, Cnr of Rebeck and Lower Burg Street, Cape Town, 8001
Enquiries: Willy van Breda Ref: WC 30/5/1/3/2/10294 MP
E-Mail Address: willy.vanbreda@dmre.gov.za
Sub-Directorate: Mine Environmental Management

Barend Bartholomeus Theron
21 Melspitter Estate
Bernard Road
Lovemore Heights
Port Elizabeth
6070

Attention: Barry Theron
Email: barry.theron@vodamail.co.za
Cc email: botmaj@tscaj.co.za

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (NEMA) AS AMENDED, AND THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGULATIONS, 2014 AS AMENDED FOR MINING PERMIT APPLICATION IN RESPECT OF MINING ACTIVITIES FOR GRAVEL ON A PORTION OF THE REMAINDER OF THE FARM LEEUWENFONTEIN 6 SITUATED IN THE MAGISTERIAL DISTRICT OF MURRAYSBURG; WESTERN CAPE REGION

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

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

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

Decision for the Granting of an Environmental Authorisation: Ref No WC30/5/1/3/2/10294 MP Page 1 of 19

EA ON SITE



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

**BASIC ASSESSMENT REPORT
And
ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT**

SUBMITTED FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

NAME OF APPLICANT: BBT Contractor's Consultant

TEL NO: 0606083634

FAX NO: None

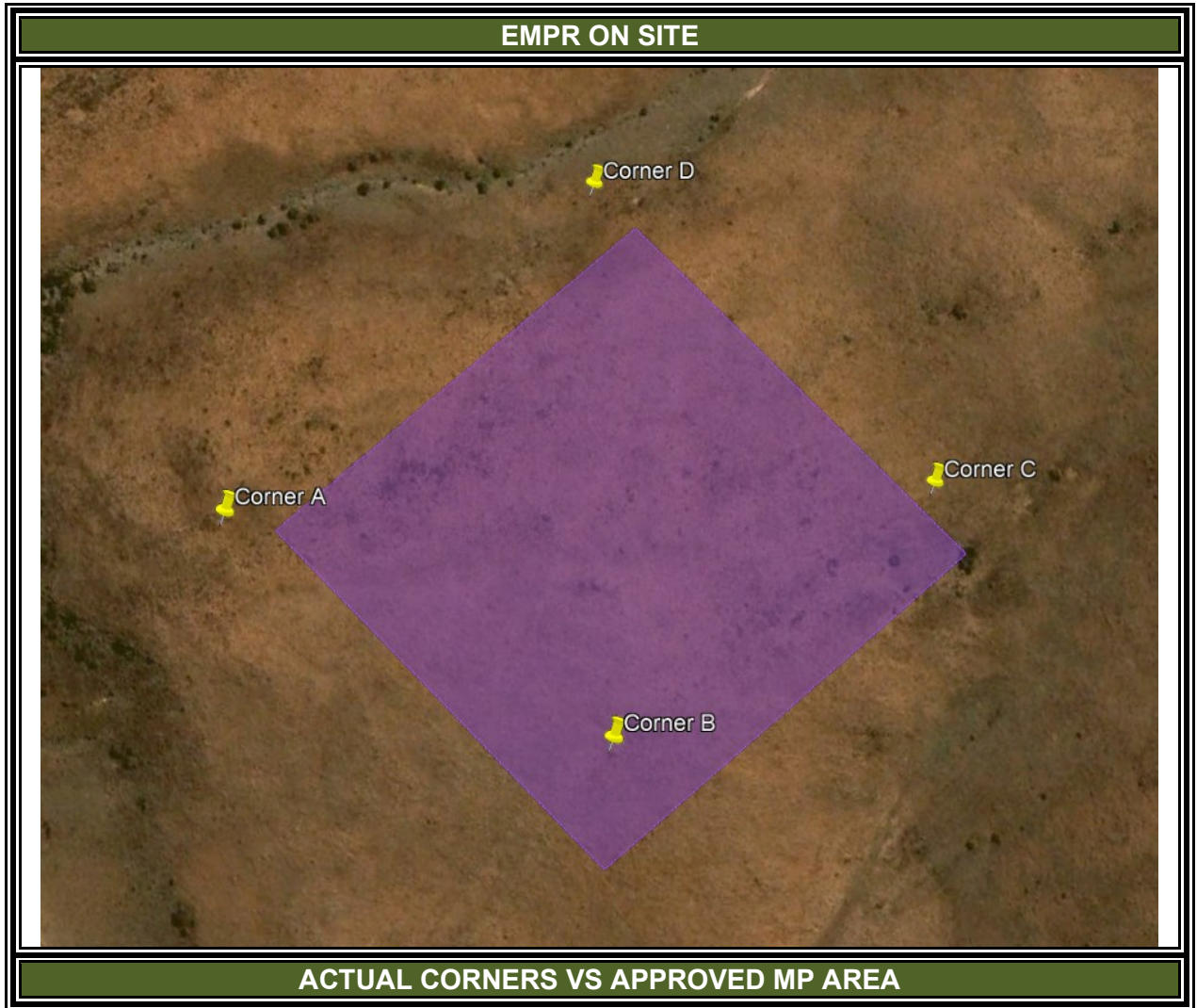
POSTAL ADDRESS: None

PHYSICAL ADDRESS:

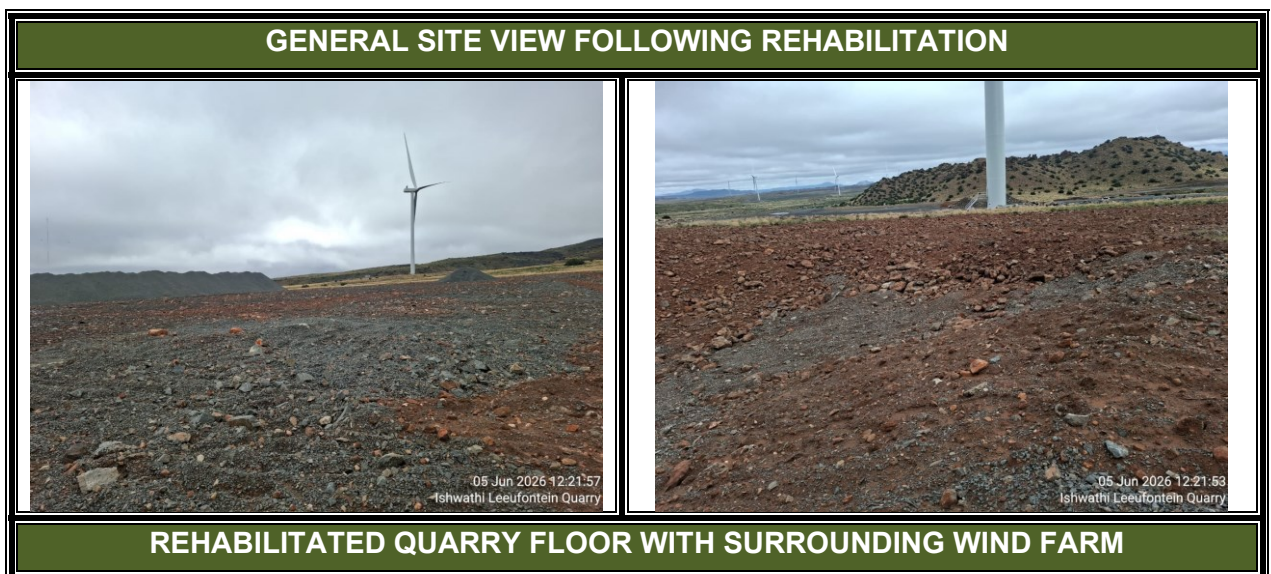
21 Melssetter Estate
Bernard Road
Lovemore Heights
Port Elizabeth
Code: 6070

FILE REFERENCE NUMBER SAMRAD:

FILE REFERENCE NUMBER SAMRAD:



PHOTOGRAPHS OF SITE AFTER REHABILITATION JUNE 2026:



CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



RE-PROFILED AND CONTOURED SURFACES



RESHAPED QUARRY AREA AND ACCESS ROUTE



REHABILITATED GROUND AND CRUSHED-MATERIAL STOCKPILES

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



SITE SURFACES AFTER RE-GRADING



WIDER SITE CONTEXT AFTER REHABILITATION



FINAL REHABILITATED STATE OF THE QUARRY SITE

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP



3. ENVIRONMENTAL RISK REPORT

{Regulation 60}

Site Names	Portion 2 of the Farm Leeuwenfontein no. 6, Magisterial District of Murraysburg, Western Cape Province.	Date of Commencement:	October 2024 (10294MP)
Reference Numbers:	WC30/5/1/3/2/10294MP	Inspection Date:	16 April 2026
Authorisation Holder:	Mr. BB Theron	Report Number:	Closure Report
Environmental Control Officer:	Mrs. Murchellin Saal	Other Authorisations:	General Authorisation WU39964

1 REGULATION 60 (a): An undertaking of a screening level environmental risk assessment where – all possible environmental risks are identified, including those which to be insignificant;

1.1 Criteria of assigning significance to possible risks

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

DEFINITIONS AND CONCEPTS:

Environmental significance:

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

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

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

Significance can be differentiated into risk magnitude and risk significance. Risk magnitude is the measurable change (i.e. intensity, duration and likelihood). Risk significance is the value placed on the change by different affected parties (i.e. level of acceptability)

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

Impact

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

Consequence

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

Likelihood

A qualitative term covering both probability and frequency.

Frequency

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

Probability

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

Environment

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

Methodology that will be used

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

$$\text{Environmental Significance} = \text{Overall Consequence} \times \text{Overall Likelihood}$$

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Determination of Overall Consequence

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

Determination of Severity / Intensity

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

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

Rating of Severity:

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

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

(Air quality, water quantity and quality, waste production, fauna and flora)	deterioration or disturbance	deterioration or disturbance	deterioration or disturbance	deterioration or disturbance	deterioration or disturbance
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Determination of Duration

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

Rating of Duration:

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

Determination of Extent/Spatial Scale

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

Rating of Extent / Spatial Scale:

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

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

Determination of Overall Consequence

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

Example of calculating Overall Consequence

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

Determination of Likelihood:

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

Determination of Frequency

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

Rating of Frequency:

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

Determination of Probability

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

Rating of Probability

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

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

Overall Likelihood

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

Example of calculating Overall Likelihood

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

Determination of Overall Environmental Significance:

The multiplication of overall consequence with overall likelihood will provide the significance of the risk, which is a number that will then fall into a range of **INSIGNIFICANT RISK**, **UNCERTAIN RISK** or **SIGNIFICANT RISK**, as shown in the table below.

Determination of Overall Environmental Significance

Significance or Risk	Insignificant risk (cc)	Uncertain risk (bb)	Potential significant risk (aa)
Overall Consequence X Overall Likelihood	1 - 4.9	5 - 9.9	10 – 19.9

Qualitative description or magnitude of Environmental Significance

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

Description of Environmental Significance and related action required

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

Significance	An insignificant risk (cc)	A uncertain risk (bb)	A potential significant risk (aa)
Impact Magnitude	Impact is of very low order and therefore likely to have very little real effect. Acceptable.	Impact is of low order and therefore likely to have little real effect. Acceptable.	Impact is real and substantial in relation to other impacts. Pose a risk to the company. Unacceptable
Action Required	Maintain current management measures. Where possible improve.	Maintain current management measures. Implement monitoring and evaluate to determine potential increase in risk. Where possible improve	Improve management measures to reduce risk.

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

- A potential Risk (aa) Risks of a substantial order. Mitigation and / or remedial activity would be feasible but difficult, expensive, time-consuming or some combination of these.
- An uncertain risk (bb) Risk would be negligible. Almost no mitigation and or remedial activity would be needed, and any minor steps, which might be needed, would be easy, cheap and simple.
- An insignificant risk (cc) There would be very small to no risk.

1.2 Environmental risk assessment of each main activity in the decommissioning/rehabilitation phase after implementation of the mitigation measures.

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

Contamination of area with hydrocarbons or hazardous waste materials

Rating: **Insignificant risk**

Degree of Mitigation: Fully Mitigated

			Consequence			Likelihood	Significance
Severity	Duration	Extent		Probability	Frequency		
1	1	1	1	1	1	1	1

Infestation of the area by weed and invader plants

Rating: **Insignificant risk**

Degree of Mitigation: Fully Mitigated

			Consequence			Likelihood	Significance
Severity	Duration	Extent		Probability	Frequency		
1	1	1	1	1	1	1	1

REPLACING OF TOPSOIL AND REHABILITATION OF DISTURBED AREA:

Loss of reinstated topsoil due to the absence of vegetation

Rating: **Insignificant risk**

Degree of Mitigation: Fully Mitigated

			Consequence			Likelihood	Significance
Severity	Duration	Extent		Probability	Frequency		
1	1	1	1	1	1	1	1

- 2. REGULATION 60 (b, c): The undertaking of a second level risk assessment on issues classified as potential significant risks.**

No issues / impacts classified as potential significant risks were identified at the mining area.

- 3. REGULATION 60 (d) Re-evaluation and re-classification of uncertain risks**

No risk classified as uncertain were identified at the mining area

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

4. REGULATION 60 (e) Documenting the Status of Insignificant Risks

RISK	SIGNIFICANCE	STATUS
Soil erosion	Insignificant	Definite
Health and safety risk posed by un-sloped	Insignificant	Definite
Dust nuisance caused during landscaping activities	Insignificant	Definite
Noise nuisance caused by machinery	Insignificant	Definite
Contamination of area with hydrocarbons or hazardous waste materials	Insignificant	Definite
Infestation of the area by weeds and invader plants	Insignificant	Definite

5. REGULATION 60 (f) Identifying alternative risk prevention or management strategies for potential significant risks

No issues / impacts classified as potential significant risks were identified at the mining area.

6. REGULATION 60 (g) – Agreeing on management measures to be implemented for the potential significant risks

No issues / impacts classified as potential significant risks were identified at the mining area.

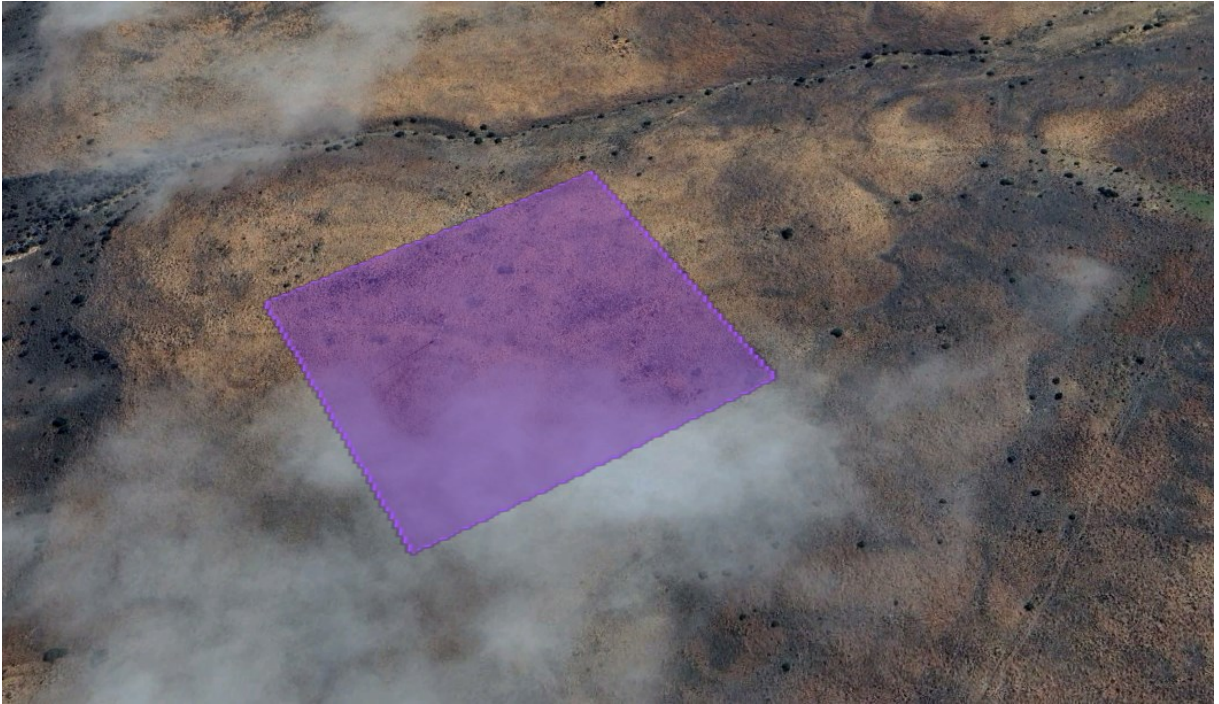
CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

4. CLOSURE PLAN

{Regulation 62}

Site Names	Portion 2 of the Farm Leeuwenfontein no. 6, Magisterial District of Murraysburg, Western Cape Province.	Date of Commencement:	October 2024 (10294MP)
Reference Numbers:	WC30/5/1/3/2/10294MP	Inspection Date:	16 April 2026
Authorisation Holder:	Mr. BB Theron	Report Number:	Closure Report
Environmental Control Officer:	Mrs. Murchellin Saal	Other Authorisations:	General Authorisation WU39964.

LOCATION

Location:	Portion 2 of the Farm Leeuwenfontein no. 6, Magisterial District of Murraysburg, Western Cape Province.
Map:	

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

Site coordinates (System LO 23):	DECIMAL DEGREES
	A-31.66733985°; 23.67437161°
	B-31.66837912°; 23.67250825°
	C-31.66990346°; 23.67381181°
	D-31.66884886°; 23.67569267°

1 REGULATION 62 (a - k): Closure and environmental objectives

1.1 Description of the closure objectives and their extent of alignment to the mining environment

The following closure objectives have been proposed for rehabilitation of the area according to the EMP:

Objective 1- Ensure effective rehabilitation the mining permit area:

- Rehabilitation plan for quarry closure must be compiled prior to termination of mining operations and assurances must be given that it will be implemented.
- The rehabilitation will have a positive impact on the site and area, although it will not be able to restore the area back to its original state.

Objective 2 - To minimise pollution or degradation of the environment:

- Ensure that no fuel or oil spills occur in the mining area
- Ensure that no solid waste or rubble is dumped on the site
- Ensure that portable toilets are used

Objective 3 -To minimise impact on the community:

- Ensure that workers remain within the mining permit boundaries
- To operate during normal working hours only
- To minimise the generation of noise and dust
- To minimise impacts on the access road
- To respond rapidly to any complaints received

The environment affected by the mining operations shall be rehabilitated, as far, as is practicable, to its natural status.

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After mining, The quarry will not be free draining as the landowner requested the area to be left as a dam for his use after the mining activities have ceased. However, the slopes will not be left as steep slopes to keep the area safe for humans and animals.

Removal of mobile equipment and all scrap material; No stockpiled material is to be retained on site. However, the landowner has requested that the stockpiles currently visible on site be left for further farm use.

Waste will not be permitted to be deposited in the excavations. All rocks and coarse material removed from the excavation must be removed from site together with the tailings.

These include:

1. Sloping and landscaping during rehabilitation
2. Replacing the topsoil and revegetating the disturbed area

Maintenance forms a vital part of the successful rehabilitation of post mining environments. The aim of the maintenance is to ensure that localised problems with die back and erosion are addressed early on to prevent large-scale degradation.

Rehabilitation steps are summarised in the following table:

Rehabilitation Technique	Timeframe and limitations
a. Removal of mobile equipment and all scrap material;	Topsoil clearing and placement should be done at the end of summer.
b. No stockpiled material is to be retained on site. Waste will not be permitted to be deposited in the excavations. All rocks and coarse material removed from the excavation must be removed from site together with the tailings.	Rehabilitation plan for quarry closure must be compiled prior to termination of mining operations and assurances must be given that it will be implemented.
c. Removal of crushing- and screening plant as well as the concrete footings and the primary ramp retaining wall;	• The rehabilitation will have a positive impact on the site and area, although it will not be able to restore the area back to its original state.
d. Removal of all containers used as offices, workshops and stores. Where office/camp sites have been rendered devoid of vegetation/grass or where soils have been compacted owing to traffic, the surface shall be scarified or ripped. Areas	

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

containing French drains, if any, shall be compacted and covered with a final layer of topsoil to a height of 10cm above the surrounding ground surface;

e. Clean-up of any fuel or lubricant spillage;

f. Ensuring that all stormwater control mechanisms are in place.

g. Ensuring alien vegetation is removed during and at the end of each contract;

h. Ensuring that the access road is maintained and properly rehabilitated;

i. Waste or bitumen will not be permitted to be deposited in the excavations. Rocks and coarse material removed from the excavation must be dumped into the excavation simultaneously with the tailings.

j. Vegetative growth on the slopes is usually not possible at a quarry.

k. Any permanent structures and facilities including brick-built personnel amenities, soak-aways, workshop aprons and workshop floors, gas stores and any electrical supply from the grid need to be removed and the area rehabilitated.

l. Photographs of the camp and office sites, before and during the mining operation and after rehabilitation, shall be taken at selected fixed points and kept on record.

m. The area will be fenced.

o. The area will be reverted back to the landowner.

1.2 Closure plan

The requested closure plan and report is attached as Appendix 4

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

1.3 Summary of regulatory requirements and conditions for closure

According to the closure process (Regulations 56 to 62) the following regulatory requirements and conditions needs to be addressed by the mining authorisation holder:

Layout Plan:

- A final layout plan is attached as Appendix 1

Demarcating the mining area:

- The beacons, indicating the layout of the site, must be removed at the end of the operations.

Responsibility:

- The environment affected by the mining operations shall be rehabilitated by the holder, as far as is practicable, to its natural state or to a predetermined and agreed to standard or land use which conforms with the concept of sustainable development. The affected environment shall be maintained in a stable condition that will not be detrimental to the safety and health of humans and animals and that will not pollute the environment or lead to the degradation thereof.
- If operations are to be conducted in an area that has already been disturbed, the holder must reach specific agreement with the Regional Manager concerning the responsibilities imposed upon himself/herself pertaining to the rehabilitation of the area and the pollution control measures to be implemented.

Rehabilitation of access roads:

- Whenever a mining authorisation is suspended, cancelled or abandoned or if it lapses and the holder does not wish to renew the authorisation, any access road or portions thereof, constructed by the holder and which will no longer be required by the landowner/tenant, shall be removed and/or rehabilitated to the satisfaction of the Regional Manager.
- Any gate or fence erected by the holder which is not required by the landowner/tenant, shall be removed and the situation restored to the pre mining situation.
- Roads shall be ripped or ploughed, and if necessary, appropriately fertilised (based on a soil analysis) to ensure the regrowth of vegetation. Imported road construction materials which may hamper regrowth of vegetation must be removed and disposed of in an approved manner prior to rehabilitation.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining operation, be corrected and the area be seeded with a seed mix to the Regional Manager's specification.

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Final rehabilitation:

- All infrastructure, equipment, plant, temporary housing 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 recognised landfill facility. It will not be permitted to be buried or burned on the site.
- Final rehabilitation shall be completed within a period specified by the Regional Manager.

1.4 Summary of the results of the environmental risk report

The potential risks as listed in the table below were assessed in the environmental risk report. If the mitigation measures proposed in that report is implemented on site all the risks are deemed to be insignificant.

RISK	SIGNIFICANCE	STATUS
Soil erosion	Insignificant	Definite
Health and safety risk posed by un-sloped	Insignificant	Definite
Dust nuisance caused during landscaping activities	Insignificant	Definite
Noise nuisance caused by machinery	Insignificant	Definite
Contamination of area with hydrocarbons or hazardous waste materials	Insignificant	Definite
Infestation of the area by weeds and invader plants	Insignificant	Definite

1.5 Results of progressive rehabilitation

All vegetative material would be retained to ensure proper vegetation establishment during the rehabilitation phase. The vegetation material from the area to be mined would be stripped by a bulldozer and stockpiled for use during the rehabilitation phase.

1.6 Description of the methods to decommission each mining component

The following methods were implemented during the decommission and rehabilitation phase of the mining area, in accordance with the closure activities prescribed by the EMP:

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Quarry Closure (Rehabilitation)

- A rehabilitation plan for quarry closure must be compiled prior to termination of mining operations and assurances must be given that it will be implemented. Inputs from a botanical specialist to identify indigenous vegetation that can be used during the rehabilitation phase will be required.
- The roles and responsibilities of parties that will be responsible for the implementation of the proposed rehabilitation measures must be clearly articulated in the rehabilitation plan.
- Only locally indigenous vegetation must be used that occur naturally in the immediate area and no “alien plant” species is to be introduced into the area.
- Rehabilitation should be aligned with each mining phase. Post-mining rehabilitation of the disturbance footprint must be considered, and a rehabilitation specialist report will be required.
- Seeds from the natural indigenous vegetation or source the indigenous seeds from a local nursery in the region must be used. The seeds of these shrubs must be harvested locally to ensure that the local strains of the species adapted to the local conditions are used. The Renu Karoo nursery (Dr Sue Milton-Dean; <http://www.renu-karoo.co.za/>) must be consulted regarding the rehabilitation and to recommend which species can be used to rehabilitate the area.
- Livestock and large game (if there are any in the area) must be eliminated from the rehabilitation area for at least three years to allow plant species to establish.
- The rehabilitation will have a positive impact on the site and area, although it will not be able to restore the area back to its original state.
- Analysed and any deleterious effects on the soil arising from the mining operation be corrected and the area be seeded with a vegetation seed mix to his or her specification.

Final rehabilitation:

- Final rehabilitation of the surface area shall entail landscaping, levelling, and clearing of invasive plant species. All equipment, plant and other items used during the mining period will be removed from site (section 44 of the MPRDA, 2002). Waste material of any description 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. The management of invasive plant species will be done in a sporadic manner during the life of the mining activities. Species regarded as Category 1a and 1b invasive species in terms of NEM:BA (National Environmental Management: Biodiversity Act 10 of 2004 and regulations applicable thereto) will be eradicated from the site. Final rehabilitation shall be completed within a period specified by the Regional Manager.

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- The figure and table below illustrate how the footprint of the altered area was used in the calculation of the quantum to determine the financial provision amount. Master rates and areas were provided by the permit holder.

1.7 Long-term management and maintenance expected

- The rehabilitated mining area should be monitored for at least the next two growing seasons.
- It is recommended that the client conduct biannual inspections for the next two years following rehabilitation. During these inspections the footprint should be monitored for any erosion features and areas that have not sufficiently been established with vegetation. If such issues have been observed, prompt actions should be taken (e.g. additional re-seeding, reinstatement of eroded areas and/or the installation of additional erosion control features).
- It is furthermore recommended that the ECO officer conduct a minimum of two inspections to determine and confirm whether rehabilitation is occurring at an acceptable rate.

1.8 Financial provision for monitoring, maintenance and post closure management

The initial calculations were conducted by Chameleon Environmental (Pty) Ltd as part of the mining permit application. The financial provision for the rehabilitation of the mining area was determined at R108 234, and a financial guarantee of R109 200 was subsequently lodged with the DMPR.

The 2025 financial provision required to rehabilitate the mining area in accordance with the Guideline Document for the Evaluation of the Quantum of Closure-related Financial Provision by a Mine and as prescribed in terms of Regulation 54 (1) is R 102 619,17. The 2025 financial provision does not exceed the value of financial guarantee in place at the DMPR and has a surplus of R 6 580,83.

Table 1: Comparison of the financial provision calculation outcome, with the current financial guarantee at DMPR

DOCUMENT	AMOUNT (RANDS)
2025 Financial Provision Calculation	R 102 619,17
Value of the financial guarantee in place at DMPR	R 109 200
Surplus	R 6 580,83

1.9 Sketch plan describing the final and future land use proposal

The mining area is shown in the mining plan attached as Appendix 1.

1.10 Record of interested and affected persons consulted

CLOSURE REPORT: LEEUWENFONTEIN QUARRY WC30/5/1/3/2/10294MP

No written comments or complaints were received from any of the surrounding I&AP's. The signed landowner indemnity forms are included and will form part of the submission to DMPR.

SIGNATURE OF AUTHOR

NAME	SIGNATURE	DATE
Murchellin Saal		5 June 2026

APPENDIX 1

REGULATION 2.2 PLAN



MINING PERMIT

APPENDIX 2



APPENDIX 3

LANDOWNER INDEMNITY LETTER



APPENDIX 4

CLOSURE PLAN



APPENDIX 5

EXPERTISE OF EAP





APPENDIX 6

PRINCIPAL MINE INSPECTOR

RECOMMENDATION

