



## mineral resources

Department:  
Mineral Resources  
**REPUBLIC OF SOUTH AFRICA**

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS IN TERMS OF THE 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).

---

### IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

**PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.**

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	X
NEMA BAR application on its own	R 2 000.00	
NEMWA S&EIR application on its own	R10 000.00	
NEMWA BAR application on its own	R 2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	

**1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT**

**2. DETAILS OF THE APPLICANT**

Project applicant:	Cape Lime (Pty) Ltd		
Registration no (if any):			
Trading name (if any):	Cape Lime (Pty) Ltd		
Responsible Person, (e.g. Director, CEO, etc.):	Director		
Contact person:	Natasha Mouton		
Physical address:	Karoovalakte, Vredendal		
Postal address:	PO Box 400, Vredendal, South Africa		
Postal code:	8160	Cell:	083 565 1108
Telephone:	027 213 3090	Fax:	027 213 2573
E-mail:	natasha.mouton@afriamat.co.za		

**3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION**

EAP:	Ntsanko Millicent Ndlovu		
Professional affiliation/registration:	EAPASA – 2019/1335 and Pri.Sci.Nat (127870)		
Contact person (if different from EAP):	Collin Ramukhubathi		
Company:	Afrimat (Pty) Ltd		
Physical address:	Tygervalley Office Park No.2, Cnr Van Schoor and Old Oak Road, Bellville, Western Cape		
Postal address:	PO Box 768, Bellville, Western Cape		
Postal code:	7535	Cell:	082 728 8975
Telephone:	012 664 5649	Fax:	086 607 1354
E-mail:	ntsanko.ndlovu@afriamat.co.za or mining@afriamat.co.za		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as Appendix 1.

#### 4. PROJECT DESCRIPTION

Farm Name:	Farm Welverdiend
Application area (Ha)	50 ha
Magisterial district:	Vanrhynsdorp RD
Distance and direction from nearest town	The proposed site is located $\pm 9$ km south of Vanrhynsdorp, $\pm 12$ km north-east of Klawer and $\pm 19$ km east of Vredendal. The property on which the proposed activities will occur is currently accessed via an existing un-surfaced road and intersection from the N7.
21 digit Surveyor General Code for each farm portion	C07800000000051100000
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2
Description of the overall activity. <small>(Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)</small>	<p><b>Project Background</b></p> <p>Cape Lime (Pty) Ltd, a subsidiary of Afrimat Ltd, currently mine and process limestone and dolomite on the Farm Vaderlandsche Rietkuil, 7 km east of the proposed project. The current activities entail, apart from mining of limestone and dolomite, crushing and screening of all mined material as well as calcination of limestone in an existing Fluid Bed Lime Kiln. The markets currently served are:</p> <ul style="list-style-type: none"> <li>• Water treatment (potable and effluent)</li> <li>• Glass Industry (Flat glass and container glass)</li> <li>• Aggregates</li> <li>• Chemical Industries (Calcium Mineral Fillers</li> <li>• hypochlorite, mineral separation processes and tanneries)</li> </ul> <p>The extent of the current limestone deposit being mined is such that it cannot support the supply of limestone to additional processing facilities without drastically reducing the life of the resource. Expansion in terms of additional capacity on the current site is also limited due to numerous constraints. Cape Lime is confronted on a regular basis with enquiries with regard to supply of high quality white lime products to potential new projects in South Africa, for which Cape Lime does not have the current production capacity.</p> <p>Cape Lime has been awarded a mining Right for the proposed mining activity by the Department of Mineral Resources (DMR) in terms of Section 22 of the Mineral and Petroleum Resources Development Act 2002. Subsequently, environmental authorization has been obtained in terms of the National Environmental Management Act, 1998 (Act 107 of 1998) related to mining activities on 6ha. It was followed by a General Authorization in terms of sect 39 of the National Water Act (Act 36 of 1998) as well as authorization by the Matzikama Municipality in terms of</p>

article 25 of the Land Use Planning Ordinance , 1985 (No 15 of 1985) LUPO.

### **Project Description**

The proposed project entails the clearing of  $\pm 40$  ha of virgin (undeveloped) land for the purposes of mining limestone deposits, the erection of a crushing plant, 4 Fluid Bed Lime Calciners and associated supporting services. The layout will be planned to allow the phasing in of the 4 kilns to the process line as and when required and justified. It will also include related logistical facilities, workshops and an office complex.

Access roads to the facilities will be extended from the existing tarred access road from the N7.

The total footprint of the mining development on the Remainder of Farm 511 (Welverdiend), Vanrhynsdorp, will be  $\pm 40$  ha and the process plant and logistical facilities will have a maximum footprint of  $\pm 10$  ha.

### **Mining/Excavation**

Mining will be done by removal of overburden to expose the underlying limestone. Overburden thickness varies from virtually none on the southern end of the deposit to  $\pm 10$ m on the northern side. This allows bench mining to be done by drilling and blasting  $\pm 30$ m wide and 50m long strips on the shallow end of the deposit. This will facilitate backfilling of the southern end of the excavation to commence relatively early ( $\pm 3$  years after start), thereby minimizing the need for overburden stockpiles. This will assist in minimizing the visual impact of the operation and expedite rehabilitation of backfilled slopes.

Excavation of blasted limestone will be done by an excavator and trucks will haul the limestone to the crushing plant less than 500m from the excavation. The mining and crushing plant will operate on a single day shift basis.

### **Processing**

Crushing will consist of a three stage crushing operation to reduce the limestone to  $< 6$ mm particle size. Co-products in the crushing and screening process will be  $< 1$ mm material which will be supplied to existing and new customers in the glass and industrial minerals industry. The  $< 6$ mm material will be stockpiled for use as feed to the lime kilns.

The lime kilns will be fed by a common limestone feed conveyor, drawing from underneath the limestone stockpile. The coal to be used as fuel in the kilns will also be fed from underneath a coal stockpile, via a common coal conveyor, to the respective kilns.

The kilns will be replicas of the existing Fluid Bed Calciner, which has been in operation at Cape Lime's Vredendal operation since 2004. Lime produced will be stored in silos before being dispatched to various clients

in bulk tanker or bulk bags. The operation of the kilns will be, by nature of the process, a continuous operation.

**Supporting Services**

- It is envisaged that the following supporting service infrastructure be provided on site:
- Workshops for mechanical and electrical maintenance.
- Laboratory for quality control testwork.
- Administrative offices including a weighbridge.

## ACTIVITIES TO BE AUTHORISED

(Please provide copies of Environmental Authorisations obtained for the same property as **Appendix 3**).

(For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated. Please note that any authorisation that may result from this application will only cover activities specifically applied for). (Attach a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 4**)

NAME OF ACTIVITY  (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m <sup>2</sup>	LISTED ACTIVITY  (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE  (GNR 544, GNR 545 or GNR 546)	WASTE MANAGEMENT AUTHORISATION  (Indicate whether an authorisation is required in terms of the Waste Management Act).  (Mark with an X)
• Clearance of more than 20 ha of indigenous vegetation for the purposes of mining limestone deposits, the erection of a crushing plant, 4 Fluid Bed Lime Calciners and associated supporting services	40ha	X	GNR 984, Listing Notice 2, Activity 15 as amended	
• Replace topsoil over mined-out area • Final rehabilitation of entire major area	To be determined during operation	X	GNR 981, Listing Notice 1, Activity 22 as amended	
• Mining right	50ha	X	GN R 984, Listing Notice 2 Activity 17 as amended	
• Reduction, crushing and screening of the gravel material	±10ha	X	GNR 984, Listing Notice 2, Activity 21 as amended	
• Construction of 4 Fluid Bed Lime Calciners	±5ha	X	GNR 984, Listing Notice 2, Activity 6 as amended	
• Construction 4 Fluid Bed Lime Calciners Kilns	To be determined during operation	X	GN R 984, Listing Notice 2 Activity 28 as amended	
• Mining in area that previously used for agricultural activities (livestock grazing)	45ha	X	GN R 984, Listing Notice 1, Activity 28 as amended	
• The storage of fuel on above ground tanks	To be determined during operation	X	GN R 985, Listing Notice 3 Activity 10 as amended	

**5. PUBLIC PARTICIPATION**

(Provide details of the public participation process proposed for the application as required by Regulation.

**Details of the Public Participation process to be followed.**

**5.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED**

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?		N/A
Will a tribal authority or host community that may be affected be consulted?		N/A
Will recipients of land claims in respect of the area be consulted?		N/A
Will the landowners or lawful occupiers of neighbouring properties been identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify		

## 5.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p><b>Steps to be taken to notify interested and affected parties</b>            (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)</p>	<p>PROVIDE DESCRIPTION HERE</p>
	<p>The Public Participation Process (PPP) for this project will satisfy the requirements stipulated in Chapter 6, Sections 41, 42, 43 and 44 of R982 of the NEMA EIA Regulations 2014 promulgated in terms of the National Environmental Management Act, Act 107 of 1998.</p> <p>The interested and affected parties (I&amp;APs) in and around the study area will be identified and a dedicated stakeholder database for the project will be developed. A dedicated stakeholder database for the project is and will be fundamental to the ultimate success of the consultation process. The database will include stakeholder representatives of a broad range of sectors of society, i.e. Provincial Government, Local government (municipalities within in the study area), Surrounding and affected Land owners, Environmental bodies both as NGOs, CBOs and authorities, Organised Labour, Business and commerce, Developmental bodies, Research, engineering and other professional bodies, Community and tribal leaders, previously disadvantaged groups (i.e. women, the youth and organisations for the disabled), etc.</p> <p>In order to announce the project to the broader public and to ensure that all I&amp;APs are afforded the opportunity to comment on the proposed development, the proposed project will be announced as follows:</p> <ul style="list-style-type: none"> <li>• Distribute notification letters via email to inform state departments (e.g. environmental affairs, water and sanitation, department of agriculture, etc) and the affected municipalities. A registration sheet was attached to the notification letters for the local authority to register as an interested and Affected Party and to submit their comments.</li> <li>• Publish a newspaper advertisement on the Newspaper which is the common newspaper in the area</li> <li>• Erection of site notices five (5) environmental notices (size A2 advertising the proposed development and displaying the contact details of the EAP) in conspicuous areas around the site and the nearby areas</li> <li>• Hand-deliver the announcement letter with Registration and Comment Sheet to the adjacent landowners in close proximity of the boundary of the property</li> </ul> <p><b>Key stakeholder workshop and Focus Group Meetings</b></p> <p>Focus group meetings will be held with various organisations within the study area (e.g. municipalities, organisations, tribal authorities, CBOs, etc)</p> <p><b>Issues and Responses Report (IRR)</b></p> <p>The proceedings of each meetings will recorded to capture contributions, comments, issues and concerns of the stakeholders about the overall project and the Scoping, EIA and EMP. All the</p>



	<p>issues, comments and suggestions raised at the focus group meetings will be compiled in a tabular format giving rise to an Issues and Response Report (IRR). The IRRs compiled for the focus group meetings and a stakeholder workshop have been attached to the final report that will be submitted to the authorities.</p>
<p><b>Information to be provided to Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• The site plan.</li> <li>• List of activities to be authorised</li> <li>• Scale and extent of activities to be authorised</li> <li>• Typical impacts of activities to be authorised ( e.g.surface disturbance, dust, noise, drainage, fly rock etc.)</li> <li>• The duration of the activity.</li> <li>• Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land)</li> </ul> <p><b>Other, specify:</b></p>
<p><b>Information to be required from Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions</li> <li>• To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity</li> <li>• To provide information on current land uses and their location within the area under consideration</li> <li>• To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied. requested to make written proposals</li> <li>• To mitigate the potential impacts on their socio economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied).</li> </ul> <p><b>Other, Specify</b></p>

6. Description of the assessment process to be undertaken

ITEM	DESCRIPTION
<p><b>Environmental attributes.</b> Describe how the Environmental attributes associated with the development footprint will be determined.</p>	<p>Environmental attributes will be determined according to the specific stage which they will occur. Specific emphasis will be placed on any relevant significant environmental, social and economic impacts identified from the specialist studies and professional judgement of the EAP.</p>
<p><b>Identification of impacts and risks.</b> (Describe the process that will be used to identify impacts and risks.</p>	<p>Potential environmental impacts resulting from the mine will be identified using input from the following sectors: views of I&amp;APs; existing information; and on-site specialist studies. The impact assessment is divided into several fields of specialist study. The following specialist studies will be contributing disciplines to the EIA and EMP:</p> <ul style="list-style-type: none"> <li>• Palaeontology;</li> <li>• Botanical/Ecological (flora and Fauna) Impact Assessment; and</li> <li>• Heritage Impact Assessment</li> <li>• Air Quality Impact Assessment</li> <li>• Agricultural Study</li> <li>• Geohydrology</li> </ul> <p>The specialist reports will be included as part of the Final EIA Report and EMP, and will be made available for public review before submission to the decision-making authorities</p>
<p><b>Consideration of alternatives.</b> Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.</p>	<p>The final site layout will be determined by the environmental sensitivity of the site paying attention to the findings and recommendation made by the specialist studies. The proposed extension of the Welverdiend Mine is required in order to support Cape Lime's limestone mining operations and is dictated by the locality of the limestone reserve. Cape Lime has investigated the economic viability, including the environmental sustainability and technical feasibility of the limestone mine in the region of the proposed mine. Cape Lime is currently mine and process limestone and dolomite on the Farm Vaderlandsche Rietkuil, 7 km east of the proposed project. The extent of the current limestone deposit being mined is such that it cannot support the supply of limestone to additional processing facilities without drastically reducing the life of the resource. Expansion in terms of additional capacity on the current site is also limited due to numerous constraints. Cape Lime is confronted on a regular basis with enquiries with regard to supply of high quality white lime products to potential new projects in South Africa, for which Cape Lime does not have the current production capacity. Cape Lime has been awarded a mining Right for the proposed mining activity by the Department of Mineral Resources (DMR) in terms of Section 22 of the Mineral and Petroleum Resources Development Act 2002. Subsequently, environmental authorization has been obtained in terms of the National Environmental Management Act, 1998 (Act 107 of 1998) related to mining activities on ± 5.2 ha. It was followed by a General Authorization in terms of sect 39 of the National Water Act (Act 36 of 1998) as well as authorization by the Matzikama Municipality in terms of article 25 of the Land Use Planning Ordinance , 1985 (No 15 of 1985) LUPO. Therefore, no site layout alternatives were considered.</p>
<p><b>Process to assess and rank impacts.</b> Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p>All identified potential impacts and risks will be assessed in terms of their overall potential significance on the natural, social and economic environments as indicated on the Environmental Impact Assessment (EIA) 2014 Regulations promulgated in terms of Sections 24(5) and 44 of the National Environmental Management Act (NEMA) (Act 107 of 1998). Appendix 3 of the EIA Regulations (2014) include the following assessment criteria:</p> <p>Determine the</p> <ul style="list-style-type: none"> <li>(i) nature, significance, extent, duration and probability of the impacts occurring</li> <li>(ii) degree to which these impacts –</li> </ul>

	(aa) can be reversed (bb) may cause irreplaceable loss of resources, and (cc) can be avoided managed or mitigated
<b>Contribution of specialist reports</b> Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.	Specialist studies will be conducted to better understand the receiving environment as well as the impact of the proposed development on the environment. Once completed, the findings of the specialist studies will be integrated and the impacts will be ranked using a scoring system that compares the relative significance of each impact. Specialist studies will as inform mitigation measures to applied on the EMPr.
<b>Determination of impact management objectives and outcomes.</b> Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.	An EMPr will be compiled and it will describe management measures at the Welverdiend Mine pertaining specifically to the proposed mining activities. The EMPr will ensure that the mitigation (and optimisation) measures specified in the EIA and EMPr process are effectively integrated into management procedures at the mine. This EMPr also ensures that any unforeseen or unidentified impacts of activities in expansion areas are detected and addressed.

## 7. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
<b>SEMA's</b>				
National Environmental Management: Air Quality Act	X			X
National Environmental Management: Biodiversity Act		X		
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X		
National Environmental Management: Waste Act		X		
<b>National legislation</b>				
Mineral Petroleum Development Resources Act	X		X	
National Water Act	X			
National Heritage Resources Act		X		
Others: Please specify				

Please provide proof of submission of applications in **Appendix 5**.

In the event that an authorization in terms of the National Environmental Waste Management Act is required for any of the activities applied for please state so clearly in order for such an authorisation to be considered as part of this application.

## 8. DRAFT EMPr

For consultation purposes, provide a high level approach to the management of the potential environmental impacts of each of the activities applied for.

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS  (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
<p>(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p>	<p>Site; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.</p>	<p>(volumes, tonnages and hectares or m<sup>2</sup>)</p>	<p>(Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)</p>	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
<p>Demarcation of the mining area</p>	<p>Construction</p>	<p>45 hectares</p>	<p>Control through management and monitoring of Coloured steel droppers or wooden stakes</p>	<p>Mining is only allowed within the boundaries of the approved mining area.  <ul style="list-style-type: none"> <li>• MHSA, 1996</li> <li>• OHSA, 1993</li> </ul> </p>
<p>Stripping</p>	<p>Construction and Operation</p>	<p>To be determined during operation</p>	<ul style="list-style-type: none"> <li>• Control by restricting soil stripping on areas not required for mining work, or on areas of retained vegetation</li> <li>• Prevent by separately stockpiling subsoils and overburden to be returned for backfilling in the correct soil horizon order</li> </ul>	<p>Continuous monitoring</p>
<p>Excavation</p>	<p>Operation</p>	<p>3 ha</p>	<p>Control by minimising noise through proper design and maintenance of silencers on diesel powered equipment, systematic maintenance of all forms of equipment</p>	<p>Comply to SANS requirements</p>
<p>Blasting</p>	<p>Operation</p>	<p>To be determined during operation</p>	<ul style="list-style-type: none"> <li>• Evacuate all persons within 500m of a blast site</li> <li>• Since blasting operations should be</li> </ul>	

			<p>limited to daylight hours when ambient noise levels are highest</p> <ul style="list-style-type: none"> <li>• Maintaining good public relations with the surrounding communities, i.e warning the local communities in advance before blasts</li> </ul>	
Hauling and transport	Operation	To be determined during operation	<ul style="list-style-type: none"> <li>• Use appropriate dust suppression measures (i.e. spray unconsolidated areas with water/chemical stabilisers)</li> <li>• A speed limit of 20km/h must not be exceeded</li> </ul>	Continuous monitoring
Stockpiling (Soil erosion)	Operation	To be determined during operation	<ul style="list-style-type: none"> <li>• Soil stockpiles in should be maintained free of exotic alien vegetation</li> <li>• Control by restricting stockpiles height to 2m</li> <li>• Control through implementation of storm water management</li> <li>• measures</li> </ul>	Rehabilitation standards/objectives
Stockpiling (Dust pollution)	Operation	To be determined during operation	<ul style="list-style-type: none"> <li>• Control through dust suppression</li> <li>• Control through minimisation of vehicle movement</li> <li>• Wetting material in trucks if required</li> </ul>	Dust generated must fall below the threshold as per the NEM:AQA National Dust Control Regulation Standards for industrial area

Hazardous Material Storage	Operation	200m <sup>2</sup>	<ul style="list-style-type: none"> <li>• Proper storage facilities should be provided for the storage of chemicals and any hazardous materials e.g. impermeable, roofed bund area</li> <li>• Spill containment and clean up kits should be available onsite.</li> <li>• Method statement must be compiled for the "handling &amp; storage of oils and chemicals", "fire", and "emergency spills procedures"</li> </ul>	Continuous monitoring to check leakages
Water Supply	Operation	1000 litres per day	Potable water from the municipality will be supplied for mine workers as required	Comply with water quality standards for human consumption
Loading	Operation	To be determined during operation	<ul style="list-style-type: none"> <li>• Access to stockpiles shall be readily available at all times</li> </ul>	Continuous monitoring
Plant Maintenance	Operation	To be determined during operation	<ul style="list-style-type: none"> <li>• Repair or remove all leaking equipment immediately</li> <li>• Service and refuel equipment that use hydrocarbon fuels, oils, lubricants and other hazardous chemicals at site camp only under conditions approved by the Head of SHE</li> <li>• Ensure that Drizit pads (or equivalent) and / or drip trays</li> </ul>	Continuous monitoring

			are available to collect any oil, fluid, etc. in the case of a breakdown or emergency repair outside the designated area.	
Ablution Facilities	Operation	10m <sup>2</sup>	<ul style="list-style-type: none"> <li>• Provide ablution facility (i.e. chemical toilet) for the excavator operator</li> <li>• Toilet to be cleaned and serviced regularly</li> </ul>	Comply with Mine Health and Safety Act, 1996 (Act No. 29 of 1996) and Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) as amended

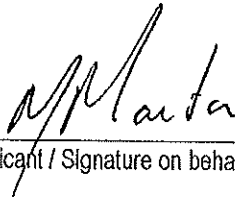
## 9. CLOSURE PLAN

<p><b>In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft EIA assessment report or environmental impact reports going forward.</b></p>	
<p><b>Baseline environment</b> Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical enviro</p>	<p>The baseline environment will describe the environment that will be affected by the activity and the manner in which the biophysical, social, economic and cultural aspects of the environment may be affected by the proposed activity. The baseline environment will focus on areas such as topography, climate, geology, land cover and land use, land capability, natural vegetation, fauna, cultural heritage, socio-economic environment.</p>
<p><b>Closure objectives</b> Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>The overall closure objectives for the Welverdiend mine will be as follows:</p> <ul style="list-style-type: none"> <li>• Ensure adhere to all statutory and other legal requirements</li> <li>• Re-establishment of the pre-mining land capability to allow for suitable post mining land use;</li> <li>• Ensure that closure supports productive uses considering pre-mining conditions; and</li> <li>• Promote bio-diversity and biological sustainability to the maximum extent practicable</li> <li>•</li> </ul>
<p><b>Rehabilitation Plan</b> Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	<p>A rehabilitation plan will be compiled to include the management of vegetation and soil. The rehabilitation plan details the following:</p> <ul style="list-style-type: none"> <li>• Specific actions to be undertaken during construction, operation, decommissioning and closure phases of the mining operation;</li> <li>• Soil handling, to ensure that materials favourable to vegetation establishment</li> <li>• Topsoil and subsoil handling procedures, especially those designed to conserve plant, nutrients and soil biota;</li> <li>• Post mining topography plan;</li> <li>• Vegetation establishment techniques; and</li> <li>• Alien invasive control measures prior to and following rehabilitation.</li> </ul>

	<p>The plan provisions will be time-bound and will take into account opportunities for progressive rehabilitation and closure. From a biodiversity conservation and re-establishment perspective, it is particularly important that the extent of planned disturbed areas is minimized at any point in time. The rehabilitation plan should be reviewed periodically as further information on site conditions becomes available and as new rehabilitation procedures are developed.</p>
<p><b>Rehabilitation Cost</b> Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>According to the regulations set out in the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002) (MPRDA), it is necessary for Cape Lime to compile a closure cost estimate for the mine, and to update this on a regular, annual basis. The financial provision for the environmental rehabilitation and closure of any mine and its associated mining operations forms an integral part of the MPRDA, and is addressed in Sections 41(1), 41(2), 41(3) and 45 of the Act. The cost updating process is based on the available figures as per the mine layout drawing and Mine Description and additional project information provided by Cape Lime.</p> <p>The following closure components are suggested by the DMR for determining the quantum for financial provision:</p> <ul style="list-style-type: none"> <li>• Dismantling of process plant and related structures;</li> <li>• Demolition of steel structures;</li> <li>• Demolition of reinforced concrete buildings and structures;</li> <li>• Rehabilitation of access roads;</li> <li>• Demolition of housing facilities;</li> <li>• Opencast rehabilitation including final voids and ramps;</li> <li>• Sealing of vertical and incline shafts;</li> <li>• Rehabilitation of overburden and spoil stockpiles;</li> <li>• Rehabilitation of subsided areas;</li> <li>• General surface rehabilitation, including grassing of all denuded areas;</li> <li>• Fencing; and</li> <li>• Maintenance and aftercare.</li> </ul> <p>A master rate for each closure component is provided in the DMR guideline, and a multiplication factor is applied to the master rate (depending on the risk class and the area sensitivity). The master rate for each closure component is based on the "generally accepted closure methods". It is important to note that this rate was approved in 2005 and is updated annually based on the appropriate CPIX.</p> <p>The next step was to determine and apply the appropriate weighting factors and area sensitivity, based on the specific mine location. Financial provision: <b>R397 797.70</b></p>
<p><b>Decommissioning</b> Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>The decommissioning phase will include the following activities:</p> <ul style="list-style-type: none"> <li>• Infrastructure: <ul style="list-style-type: none"> <li>○ Removal of infrastructure that will not be needed by the applicant who is the landowner;</li> <li>○ Rehabilitation of haul roads if it is serving no purpose</li> </ul> </li> <li>• Mining Activities: <ul style="list-style-type: none"> <li>○ Replacement of topsoil;</li> <li>○ Rehabilitation of surface damage; and</li> <li>○ Rehabilitation and re-vegetation of disturbed areas.</li> </ul> </li> <li>• Monitoring:</li> </ul>



	<ul style="list-style-type: none"><li>o Continuous monitoring of environmental aspects such as vegetation and soil.</li></ul>
--	---



Signature of the applicant / Signature on behalf of the applicant:

Cape Lime (Pty) Ltd  
Name of company (if applicable):

Date: 10 May 2021

**APPENDIX 4  
DECLARATION OF THE EAP**

I, Ntsanko Millicent Ndlovu

, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

**Disclosure of Vested Interest (delete whichever is not applicable)**

- I have a vested interest in the proposed activity proceeding, such vested interest being:  
I am an employee of Afrimat (Pty) Ltd earning a monthly salary paid by the applicant.

A handwritten signature in black ink, consisting of several overlapping loops and lines, positioned above a horizontal line.

---

Signature of the environmental assessment practitioner:

---

Name of company: Afrimat Aggregate Trading (Pty) Ltd

---

Date: 10 May 2021