



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 or 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 noting of intent to apply for a water use licence has been lodged with the Department of Water and Sanitation.
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.
10. Any other Information to be attached as annexures under Section 11 of this form.

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	<input type="checkbox"/>
NEMA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMWA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMWA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	<input checked="" type="checkbox"/>
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	<input type="checkbox"/>

Please refer to [Appendix 8](#) for Proof of Payment.

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

2. DETAILS OF THE APPLICANT


Project applicant:	Sasol Mining (Pty) Ltd		
Registration no (if any):	1950/038590/07		
Trading name (if any):	N/A		
Responsible Person (e.g. Director, CEO, etc):	Acting VP Integrated Planning & Optimisation		
Contact person:	Paul Cronje		
Physical address:	Sasol Place, 50 Katherine Street, Sandton 2146, South Africa		
Postal address:	Private Bag X10014, Sandton 2196, South Africa		
Postal code:	2302	Cell:	+27 71 603 0909
Telephone:	+27 17 614 8000	Fax:	
E-mail:	Paul.Cronje@sasol.com		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Ms. Gina Martin		
Professional affiliation/registration:	Pr Sci Nat Registered EAP (EAPASA)		
Contact person (if different from EAP):	N/A		
Company:	Jones & Wagener (Pty) Ltd		
Physical address:	59 Bevan Road, Sunninghill		
Postal address:	PO Box 1434, Rivonia		
Postal code:	2128	Cell:	+27 72 997 8935
Telephone:	+27 11 519 0200	Fax:	+27 11 519 0201
E-mail:	gina@jaws.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 this 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** below (*To insert PDF file/ Documents open the below help image to follow the manual*)

Please refer to [Appendix 1](#) for the CV of the EAP and the Declaration of Interest.

 Help.pdf		
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4. PROJECT DESCRIPTION

Farm Name:

Please refer to the table below for the Farm portions and Erfs affected by activities within the project area. The project area is defined by properties affected by mining and mining related activities (including infrastructure) within the boundaries of DMRE ref 138MR and 10125 MR.

Table 1: Farming portions and Erfs

Farm name	Portion	S21-digit number
RIETFontein 101 IS	1/101	T0IS00000000010100001
RIETFontein 100 IS	15/100	T0IS00000000010100015
ALEXANDER 102 IS	3/102	T0IS00000000010200003
	12/102	T0IS00000000010200012
	14/102	T0IS00000000010200014
	1/102	T0IS00000000010200001
	9/102	T0IS00000000010200009
	5/102	T0IS00000000010200005
	4/102	T0IS00000000010200004
	13/102	T0IS00000000010200013
	10/102	T0IS00000000010200010
	2/102	T0IS00000000010200002
	8/102	T0IS00000000010200008
	6/102	T0IS00000000010200006
BOSCHMANSKRAAL 113 IS	4/113	T0IS00000000011300004
BRAKFontein 117 IS	RE/117	T0IS00000000011700000
	5/117	T0IS00000000011700005
	6/117	T0IS00000000011700006
RIVERSDALE 119 IS	RE1/119	T0IS00000000011900001
	13/119	T0IS00000000011900013
SYFERFontein 115 IS	9/115	T0IS00000000011500009
	2/115	T0IS00000000011500002
	6/115	T0IS00000000011500006
	15/115	T0IS00000000011500015
	10/115	T0IS00000000011500015
	5/115	T0IS00000000011500005
	7/115	T0IS00000000011500007
	11/115	T0IS00000000011500011
K-STAD 79 IS	19/79	T0IS00000000007900019
	9/79	T0IS00000000007900009
WITBANK 576 IS	0/576	T0IS00000000005760000
WITBANK 80 IS	24/80	T0IS00000000008000024
	23/80	T0IS00000000008000023
	27/80	T0IS00000000008000027
	29/80	T0IS00000000008000029
	30/80	T0IS00000000008000030
	31/80	T0IS00000000008000031
	6/80	T0IS00000000008000006
	8/80	T0IS00000000008000008
	11/80	T0IS00000000008000011

		25/80	T0IS00000000008000025
		33/80	T0IS00000000008000033
		28/80	T0IS00000000008000028
		32/80	T0IS00000000008000032
	WITRAND 103 IS	6/103	T0IS00000000010300006
		5/103	T0IS00000000010300005
	CALEY 77 IS	00R/77	T0IS00000000007700000
	VANSCHALKWYKSRUST 118 IS	1/118	T0IS00000000011800001
		2/118	T0IS00000000011800002
		9/118	T0IS00000000011800009
		RE8/118	T0IS00000000011800008
	WELTEVREDEN 116 IS	3/116	T0IS00000000011600003
		7/116	T0IS00000000011600007
		8/116	T0IS00000000011600008
	TWEEDRAAI 139 IS	6/139	T0IS00000000013900006
		10/139	T0IS00000000013900010
		12/139	T0IS00000000013900012
		15/139	T0IS00000000013900015
		22/139	T0IS00000000013900022
		24/139	T0IS00000000013900024
	TRICHARDTSFONTEIN 140 IS	RE10/140	T0IS00000000014000010
	FRISCHGEWAAGD 142 IS	3/142	T0IS00000000014200003
Application area (Ha)	10 700 ha of which ~ 640 ha covers the opencast mine plan		
Magisterial district:	The project overlaps between the Nkangala District Municipality and Gert Sibande District Municipality.		
Distance and direction from nearest town	Approximately 12 km northwest of Bethal and directly to the south and south-east of Kriel.		
21-digit Surveyor General Code for each farm portion	Please refer to Table 1 above.		
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2	Please refer to Appendix 2 .	
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)	Sasol Mining operates several underground coal mines near Secunda, Mpumalanga Province. To ensure an uninterrupted coal supply to the Sasol Operations (SO) in Secunda, Sasol Mining has acquired new reserves and in future will deploy its mining activities into these new areas. These areas are the Alexander Block 2, 3 and 4. For the purposes of this application, opencast mining will only take place at Block 2 herein referred as the “Alexander Mining Project”. The Alexander Mining Project is situated approximately 12km northwest of Bethal and directly to the south and south-east of Kriel in the Mpumalanga Province. The target mineral resource lies between the R547 provincial road to the west and the R35 provincial road to the east. The Alexander mining right (inclusive of Alexander Block 2, 3 and 4), with Department of Mineral Resources and Energy (DMRE) reference number MP		

	<p>30/5/1/2/2/ 10125MR, was transferred from Anglo American Inyosi Coal (Pty) Ltd (AAIC) to Sasol Mining on 29/04/2018.</p> <p>The Alexander coal reserves are required to replace coal currently purchased from the Isibonelo Colliery, when the Isibonelo operations cease.</p> <p>The proposed Alexander Mining Project is a greenfields project that will include opencast mining operations at Block 2, to extract coal from the No.4 and No.5 Coal Seams.</p> <p>Sasol Mining has indicated that they may decide to mine additional areas of the remaining reserves at Alexander in future via underground mining, however this is not currently in the project plan and has not been assessed as part of this study. A new environmental application and licensing process would be required for additional mining, should Sasol Mining decide to mine additional areas in future.</p> <p>The Alexander Project also includes the development of the following surface infrastructure at Block 2 and surrounds:</p> <ul style="list-style-type: none">• Mine complex (including offices, parking, change houses, workshops, substation, haul roads, Run of Mine (ROM) tip, temporary coal stockpile, Pollution Control Dam (PCD), canals, overburden and topsoil stockpiles, a Sewage Treatment Plant, etc;• Overland conveyor;• Access roads;• Powerlines; and• Potable and dirty water pipelines. <p>The opencast mining activities at Alexander are envisaged to commence in 2024 and be completed by the year 2038.</p> <p>Jones & Wagener (Pty) Ltd Engineering & Environmental Consultants (J&W) has been appointed as an independent Environmental Assessment Practitioner (EAP) to undertake an Integrated Regulatory Process (IRP) for the required environmental applications and licences for the proposed Alexander Mining Project.</p>
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5. ACTIVITIES TO BE AUTHORISED

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

Please refer to **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**)

Please refer to **Appendix 4**.

NAME OF ACTIVITY E.g. For prospecting - drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc. E.g. For mining, - excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc.	AERIAL EXTENT OF THE ACTIVITY (HA OR M²)	LISTED ACTIVITY Mark with an X where applicable or affected	APPLICABLE LISTING NOTICE GNR 983, GNR 984 or GNR 985	WASTE MANAGEMENT AUTHORISATION Indicate whether an authorisation is required in terms of the Waste Management Act Mark with an X where applicable
Dirty water pipelines, including pipelines from the pit to the PCD, pipelines from the office complex to the Sewage Treatment Plant (STP), pipeline from the Riversdale underground compartment to the service water reservoir and dirty stormwater management infrastructure	~5 200 m	<input checked="" type="checkbox"/>	Activity 10 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
Development of opencast mining pits, reservoir, conveyors, roads, pipelines, powerlines, mine complex, topsoil stockpiles, contaminated stockpiles, and associated infrastructure within watercourses and within 32m of a watercourse.	Opencast pits: 636.4 ha Conveyors & service roads: ~27 300 m Roads: ~17 600 m Haul roads: ~2 800 m in length (area of ~111 000 m²) Contaminated dump: ~95 ha Softs: ~5 ha	<input checked="" type="checkbox"/>	Activity 12 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
Storage of chemicals within the Explosives magazine Storage of fuel and chemicals within the mine complex workshops	Explosive magazine: ~0.005 ha Bulk fuel and lube bay: ~0.06 ha	<input checked="" type="checkbox"/>	Activity 14 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
The stripping and excavation of soil in proximity to a watercourse for the	-	<input checked="" type="checkbox"/>	Activity 19 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>

NAME OF ACTIVITY E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	AERIAL EXTENT OF THE ACTIVITY (HA OR M²)	LISTED ACTIVITY Mark with an X where applicable or affected	APPLICABLE LISTING NOTICE GNR 983, GNR 984 or GNR 985	WASTE MANAGEMENT AUTHORISATION Indicate whether an authorisation is required in terms of the Waste Management Act Mark with an X where applicable
development of infrastructure or mining				
The mining right Ref MP 30/5/1/2/2/10125MR is being amended by Sasol in terms of Section 102 of the MPRDA, following their acquisition of this mining right.	Mine boundary: ~10 700 ha	<input checked="" type="checkbox"/>	Activity 21D of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
Construction of gravel roads with a reserve of 25 m and new sections of the D450 and D620. Construction of internal mine roads with a reserve of 12.5 m Upgrade of an intersection of a provincial road and upgrade and diversion of a district road	New sections of D450: ~1 000 m in length New section of D620 (gravel): ~1 200 m in length Temporary access road: ~1km	<input checked="" type="checkbox"/>	Activity 24 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
Construction and operation of a sewage treatment plant at the mine complex	STP: ~0.5 ha	<input checked="" type="checkbox"/>	Activity 25 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
Upgrading of the existing D620 road and potential lengthening by diversion. Upgraded road will be 40 m wide. Widening of existing D618 road by more than 6 m. Widening of existing D450 road by more than 6 m.	Upgrade of existing road: ~80 000 m² Upgrade of D618: ~1 700 m in length Upgrade of D450: ~2 250 m in length	<input checked="" type="checkbox"/>	Activity 56 of Listing Notice 1 (GNR 327)	<input type="checkbox"/>
Activities requiring a water use licence: <ul style="list-style-type: none"> • ROM stockpile • Dust suppression using mine impacted water • PCD • Sumps within mine complex • Overburden stockpiles • Dirty water channels, sumps, and pipelines • Overburden stockpiles • STP and drying beds Infrastructure and mining pits within 500m of a watercourse	ROM tip: ~1.5 ha PCD: 5.8 ha Conveyors & service roads: ~27 300 m Roads: ~17 600 m Haul roads: ~2 800 m Mine complex: ~25 ha STP: ~0.5 ha Topsoil stockpiles: ~12.5 ha Softs: ~5 ha Contaminated dump: ~95 ha	<input checked="" type="checkbox"/>	Activity 6 of Listing Notice 2 (GNR 325)	<input type="checkbox"/>
Clearing of vegetation for infrastructure, mining complex, stockpile areas, mining pits	~850 ha	<input checked="" type="checkbox"/>	Activity 15 of Listing Notice 2 (GNR 325)	<input type="checkbox"/>

NAME OF ACTIVITY E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	AERIAL EXTENT OF THE ACTIVITY (HA OR M²)	LISTED ACTIVITY Mark with an X where applicable or affected	APPLICABLE LISTING NOTICE GNR 983, GNR 984 or GNR 985	WASTE MANAGEMENT AUTHORISATION Indicate whether an authorisation is required in terms of the Waste Management Act Mark with an X where applicable
Opencast mining pits and related activities	~636.4 ha	<input checked="" type="checkbox"/>	Activity 17 of Listing Notice 2 (GNR 325, amended in GN517 of June 2021)	<input type="checkbox"/>
Clearing of vegetation for infrastructure, mining complex, stockpile areas, mining pits, within a CBA	~200 ha	<input checked="" type="checkbox"/>	Activity 12 of Listing Notice 3 (GNR 324)	<input type="checkbox"/>
Development of opencast mining pits, reservoir, conveyors, roads, pipelines, powerlines, and associated infrastructure within watercourses and within 32m of a watercourse. Development of a post-closure stormwater management dam within a watercourse.	Opencast pits: 636.4 ha (of which ~18 ha is within CBAs) Conveyors & service roads: ~27 300 m (of which ~4 800 m is within CBAs) Roads: ~17 600 m (of which ~2 300 m is within CBAs) Softs: ~5 ha (of which 0.8 ha is within CBAs) Powerlines: ~3 500 m within CBAs Clean water pipeline: ~5 900 m within CBAs Dirty water pipeline: ~1 050 m within CBAs	<input checked="" type="checkbox"/>	Activity 14 of Listing Notice 3 (GNR 324)	<input type="checkbox"/>
The D450 road will be lengthened by ~1 km within CBAs.	Roads: ~1 000 m	<input checked="" type="checkbox"/>	Activity 18 of Listing Notice 3 (GNR 324)	<input type="checkbox"/>
Construction of overburden stockpiles, associated liners and water management infrastructure	Contaminated dump: ~95 ha PCD: 5.8 ha	<input type="checkbox"/>	Category B, Activity 10	<input checked="" type="checkbox"/>
ROM stockpiles Overburden stockpiles	ROM tip: ~1.5 ha Contaminated dump: ~95 ha	<input type="checkbox"/>	Category B, Activity 11	<input checked="" type="checkbox"/>
Storage of general or hazardous waste at the mine complex (waste stockpile yards etc)	ISO bin yard: 0.16 ha	<input type="checkbox"/>	Category C, Activities 1 and 2	<input checked="" type="checkbox"/>

6. 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.

6.1.1. 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the lawful occupier on the property other than the Landowner be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will a tribal authority or host community that may be affected be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will recipients of land claims in respect of the area be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the landowners or lawful occupiers of neighbouring properties been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the local municipality be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the Authority responsible for power lines within 100 metres of the area be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify) (i.e. Rand Water)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the Provincial Department responsible for the environment be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (Specify)		

*At this stage of the project, the details of all I&APs have not yet been gathered. All stakeholder groups will be consulted, where relevant.

6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. It's important to note that 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 5)</p>	<p>PROVIDE DESCRIPTION HERE</p> <p>The following public participation will be undertaken as part of the S&EIR process:</p> <p><u>Project announcement and Consultation Scoping Report review:</u></p> <ul style="list-style-type: none"> • Background Information Documents (BIDs) and comment sheets, as well as notification emails/ letters, will be prepared and sent to the Interested & Affected Parties (I&APs) i.e. stakeholders on the stakeholder database. • Site notices will be placed at strategic points in the project's area of influence (photographs of these will be provided in the Final Scoping Report). • Advertisements announcing the project, availability of the Consultation/Draft Scoping Report and associated documents (EMPr, and Closure Plan), and the public review period (30 days) will be placed in local newspapers. • I&APs will also be notified of the public review period (30 days) of the Consultation/Draft Scoping Report and associated documents via emails/telephone. • 30-day public review period of the Consultation/Draft Scoping Report and associated documents. • A Comments and Response Report (CRR) will be compiled with I&AP comments and concerns. This document will be updated throughout the project. • A public meeting and one-on-one consultations / focus group meetings will be held during the public review period. <p><u>Final Scoping Report:</u></p> <ul style="list-style-type: none"> • The CRR will be updated with comments from the public review of the Consultation/Draft Scoping Report and associated documents. • I&APs will be notified of the availability of final Scoping Report and associated documents. <p><u>Consultation Environmental Impact Report review:</u></p> <ul style="list-style-type: none"> • Advertisements announcing the availability of the Consultation/Draft EIR and associated documents, and the the public review period (30 days) will be placed in local newspapers. • I&APs will also be notified of the public review period (30 days) of the Consultation/Draft EIR and associated documents via emails/telephone. • 30-day public review period of Consultation/Draft EIR and associated documents. • A public meeting and one-on-one consultations / focus group meetings will be held during the public review period. <p><u>Final Environmental Impact Report</u></p> <ul style="list-style-type: none"> • The CRR will be updated with comments from the public review of the Consultation/Draft EIR and associated documents. • I&APs will be notified of the availability of final EIR and associated documents. <p><u>Environmental Authorisation announcement:</u></p> <ul style="list-style-type: none"> • I&APs will be notified of the authority decision via email and in newspaper advertisements.
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Information to be provided to Interested and Affected Parties.	<p style="text-align: center;">Compulsory</p> <ul style="list-style-type: none"> • The site plan • List of activities to be authorised • Scale and extent of activities to be authorised • Typical impacts of activities to be authorised (e.g. surface disturbance, dust, noise, drainage, fly rock etc.) • The duration of the activity • 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
	<p>Other (Specify):</p> <p>All environmental application documentation and reports will be provided to I&APs.</p> <p>The public participation office contact details, in order to discuss the project or lodge any concerns.</p>
Information to be required from Interested and Affected Parties.	<p style="text-align: center;">Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity • To provide information on current land uses and their location within the area under consideration • 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 • 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
	<p>Other (Specify):</p> <p>To provide details on their current water use uses and agricultural activities.</p>

7.

ITEM	DESCRIPTION																																																																		
Environmental attributes: Describe how the Environmental attributes associated with the development footprint will be determined	<p>The applicable environmental attributes will be determined by reviewing existing data and previous specialist studies for the area, by desktop screening and by undertaking site visits. Input received from stakeholders and authorities will be used to better understand the environmental situation. In addition to the above, the following project specific specialist studies will be undertaken:</p> <ul style="list-style-type: none">• Socio-economic Impact Assessment;• Air Quality Impact Assessment and Climate Change Assessment;• Noise Impact Assessment;• Heritage and Palaeontological Impact Assessment;• Surface Water Impact Assessment;• Hydrogeological Impact Assessment;• Wetlands, Aquatics and Terrestrial Ecology Impact Assessments;• Visual Impact Assessment;• Soil, land use and land capability Impact Assessment;• Traffic Impact Assessment;• Blasting and vibrations Impact Assessment. <p>Please also refer to the Screening Report attached as Appendix 7.</p>																																																																		
Identification of impacts and risks: Describe the process that will be used to identify impacts and risks	<p>The potential environmental impacts associated with the project will be identified through an evaluation of the following:</p> <ul style="list-style-type: none">• Legal context;• Activities associated with the project;• Information and data provided by Sasol Mining and their design engineers;• The nature of the receiving environment and potential sensitive environmental features and attributes, determined through project specific specialist studies; and• Input received from I&APs and authorities.																																																																		
Consideration of alternatives: 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>Discussions will be held with the planning department of Sasol Mining and their design engineers to determine alternative location(s) for the proposed mining activities and associated infrastructure, as well as alternative mining methods and technologies to be considered. Findings of the specialist studies and input received from I&APs and authorities will also guide the alternatives considered.</p>																																																																		
Process to assess and rank impacts: Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity	<p>Potential environmental impacts will be identified by means of determining what activities will be undertaken as part of the proposed Alexander Mining Project. Changes in the status quo of an aspect/attribute as a result of the activities being undertaken as part of the proposed activities, will indicate a potential environmental impact, be it positive or negative.</p> <p>In order to ensure uniformity, a standard risk assessment methodology has been utilised so that a wide range of impacts can be compared. A qualitative risk assessment has been used to describe the risk. Risk will be expressed in terms of a combination of the impact significance of an event and the associated probability on the following 7x7 matrix.</p> <table><tr><td>4</td><td>3</td><td>3</td><td>2</td><td>1</td><td>1</td><td>1</td><td>I7</td><td rowspan="7">Significance</td></tr><tr><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>1</td><td>1</td><td>I6</td></tr><tr><td>5</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td><td>I5</td></tr><tr><td>6</td><td>5</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>I4</td></tr><tr><td>6</td><td>5</td><td>5</td><td>4</td><td>4</td><td>3</td><td>3</td><td>I3</td></tr><tr><td>6</td><td>6</td><td>6</td><td>5</td><td>5</td><td>4</td><td>4</td><td>I2</td></tr><tr><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>I1</td></tr><tr><td>P1</td><td>P2</td><td>P3</td><td>P4</td><td>P5</td><td>P6</td><td>P7</td><td colspan="2">Probability</td></tr></table>	4	3	3	2	1	1	1	I7	Significance	4	3	3	2	2	1	1	I6	5	4	3	3	2	2	2	I5	6	5	4	4	3	3	3	I4	6	5	5	4	4	3	3	I3	6	6	6	5	5	4	4	I2	6	6	6	6	6	6	6	I1	P1	P2	P3	P4	P5	P6	P7	Probability	
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Impact Significance

In identifying the significance of an impact, Sasol Limited's Risk Impact Rating Table has been utilised, with impact categories and impact ratings for each of these categories (**Table 2**). The relevant categories are assessed for the type of impact, in terms of the consequence that impact could have on those aspects. Scale and severity are incorporated in the descriptions of impact significance. For the purposes of this assessment, the impact categories of Community and Environment are most relevant. The Sasol business-specific categories have not been assessed.

Table 2: Description of the impact significance rating scale.

RATING	Financial Impact (Rand - EBIT)	Employee Safety & Health	Community & customers	Government Relations	Environment	Reputation / Brand	Legal Impact	Human Resources	Operations
17	>R4500m (>15% of risk Tolerance)	More than 10 fatalities	More than 3 public fatalities	Breakdown in relations with governments on an international scale resulting in international political pressure and operating licenses being revoked	Very serious irreversible impact on national scale	Prolonged international and national condemnation that is difficult to defend and manage resulting in long term damage to reputation with a potential for a prolonged drop in share price (>5 years)	International legal/class action (e.g. anti-competitive practices) that may alter business model and reduce market share; complete breach of Sasol's protected intellectual property	International and national strike action and/or serious deterioration in workforce morale that is expected to last for the foreseeable future; inability to recruit appropriately qualified staff resulting in project failure	Total loss of production
16	R1500m-R4500m (5% -15% of risk Tolerance)	3 to 10 fatalities	1 to 2 public fatality	Breakdown in relations with government causing local licenses being revoked	Serious reversible impact on a national scale	International & national critics resulting in a medium term drop in share price (<5 years)	National legal action resulting in significant alteration to business practices and significant fines that may impact cash flow; partial breach of Sasol's intellectual property	Strikes at several facilities and difficulty in attracting appropriately qualified staff resulting in project delays; deterioration in workforce morale that lasts for up to 5 year	Future operations untenable
15	R300m-R1500m (1% -5% of risk Tolerance)	1 to 2 fatality	Hospitalisation or multiple press articles regarding complaints e.g. smell	Breakdown in relations limited to specific government departments	Serious reversible impact at Regional scale	Serious negative critic's limited to one geographical area resulting in short term drop in share price before recovery (<1 years)	Legal action resulting in loss of operating permit and causing a business interruption and potentially impacting cash flow: potential breach of Sasol's intellectual property	Strike at one facility or deterioration in workforce morale that lasts for up to 1 year	Future operations at site seriously affected. Loss of production > 6 months; total breakdown in supply chain lasting longer than 6 months
14	R150-R300m (0,5% -1% of risk Tolerance)	Serious irreversible or disabling injury	Local public asked to take shelter indoors or to evacuate or adverse public local publicity	Breakdown in relationship at local government level	Moderate reversible impact on local scale	Adverse national media public attention with a limited impact on share price	Severe legal fines with a limited impact on cash flow	Disputes /marches / organised stay aways	Major damage to facility. Loss of production < 6 months; disruption to supply chain resulting in delays to obtaining materials and significantly higher cost of materials
13	R30m-R150m (0,1% - 0,5% of risk Tolerance)	Lost workday case	Complaints from public e.g. smell	N/A (I3)	Moderate reversible impact off-site	Local attention from media/ NGO/ public - no impact on share price	Legal fines	Isolated employees grievances	Moderate damage to equipment and/or facility; loss < 1 week; limited disruption to supply chain
12	R3m-R30m (0,01% - 0,1% of risk Tolerance)	Medical treatment / restricted workday case	N/A (I2)	N/A (I2)	Minor impact extending beyond plant boundary	Minor adverse local/public/media attention and complaints	Reportable incident	Complaints/ dissatisfaction amongst the workforce	Minor/ superficial damage to equipment; no loss of production
11	<R3m (<0,01% of risk Tolerance)	First aid injury	N/A (I1)	N/A (I1)	Minor impact within plant boundary	Public concern restricted to local complaints	N/A (I1)	N/A (I1)	Easily addressed or rectified

	<p>Probability Assessment</p> <p>The qualitative descriptors for the probability of an event occurring are described in Table 3 below.</p> <p>Table 3: Description of the probability rating scale.</p> <table><tr><th colspan="2">RATING</th><th>DESCRIPTION</th><th>%</th></tr><tr><td>P7</td><td>Almost certain</td><td>The event is expected to occur or occurs regularly.</td><td>>80%</td></tr><tr><td>P6</td><td>Likely</td><td>The event will probably occur (significant chance).</td><td>50 - 80%</td></tr><tr><td>P5</td><td>Possible</td><td>The event may occur (realistic chance).</td><td>20 - 50%</td></tr><tr><td>P4</td><td>Low</td><td>The event could occur (moderate chance).</td><td>10 - 20%</td></tr><tr><td>P3</td><td>Very Unlikely</td><td>The event may occur in certain circumstances (remote chance).</td><td>5 - 10%</td></tr><tr><td>P2</td><td>Highly Unlikely</td><td>The event may occur in exceptional circumstances (very remote chance).</td><td>1 - 5%</td></tr><tr><td>P1</td><td>Unforeseen</td><td>The event is not foreseen to occur.</td><td>0 - 1%</td></tr></table> <p>Risk rating</p> <p>A risk rating is determined by plotting the significance of an impact against the probability of that impact occurring. The resulting risk is classified according to six classes as described in Table 4.</p> <p>Table 4: Risk Ratings.</p> <table><tr><th>RISK RATINGS</th><th>DESCRIPTION - NEGATIVE</th><th>DESCRIPTION - POSITIVE</th></tr><tr><td>6</td><td>Very Low</td><td>Very Low</td></tr><tr><td>5</td><td>Low</td><td>Low</td></tr><tr><td>4</td><td>Moderate</td><td>Moderate</td></tr><tr><td>3</td><td>High</td><td>High</td></tr><tr><td>2</td><td>Very High</td><td>Very High</td></tr><tr><td>1</td><td>Unacceptable</td><td>Unacceptable</td></tr></table>	RATING		DESCRIPTION	%	P7	Almost certain	The event is expected to occur or occurs regularly.	>80%	P6	Likely	The event will probably occur (significant chance).	50 - 80%	P5	Possible	The event may occur (realistic chance).	20 - 50%	P4	Low	The event could occur (moderate chance).	10 - 20%	P3	Very Unlikely	The event may occur in certain circumstances (remote chance).	5 - 10%	P2	Highly Unlikely	The event may occur in exceptional circumstances (very remote chance).	1 - 5%	P1	Unforeseen	The event is not foreseen to occur.	0 - 1%	RISK RATINGS	DESCRIPTION - NEGATIVE	DESCRIPTION - POSITIVE	6	Very Low	Very Low	5	Low	Low	4	Moderate	Moderate	3	High	High	2	Very High	Very High	1	Unacceptable	Unacceptable
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<p>Contribution of specialist reports: Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process</p>	<p>The information obtained from the specialist studies will be incorporated into the EIR by:</p> <ul style="list-style-type: none">Using this information to create the baseline environmental sections of the report, including a description of the current land use, features and type of environment to be affected by the proposed project;Using the specialist evaluations and recommendations on the project alternatives to identify the most favourable option;Including the specialist’s impact assessment and the proposed mitigation measures in the overall project impact assessment;Utilising specialist input to address queries raised by stakeholders that pertain to a specialist field;Relevant recommendations from the specialists will be included in the conclusion section of the EIR																																																					
<p>Determination of impact management objectives and outcomes: Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact</p>	<p>In order to mitigate potential impacts, impact management and monitoring objectives will be identified as part of the specialist assessment for the proposed development. Applicable legal requirements, standards, principles and guidelines will be taken into account to guide the management objectives.</p>																																																					

management outcomes will be aligned with standards	
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8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Environmental Management: Air Quality Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	
National Environmental Management: Biodiversity Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	
National Environmental Management: Integrated Coastal Management Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	
National Environmental Management: Protected Areas Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	
National Environmental Management: Waste Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To be submitted (this application)	<input type="checkbox"/>
National legislation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mineral Petroleum Development Resources Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To be submitted	
National Water Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To be submitted	
National Heritage Resources Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To be submitted	
Others: Please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please provide proof of submission of applications in Appendix 6 . 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.		<p>This application form is to serve as the application in terms of the NEMA and the NEM:WA.</p> <p>Other applications (HRA, Section 102 of the MPRDA, Integrated Water Use Licence Application in terms of the NWA) will be submitted as the project progresses.</p>		

9. 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 E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) Volumes, tonnages and hectares or m ²	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	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
Clean water pipeline with a diameter of 150 mm and a length of 19.5 km from Rand Water supply to the mine complex and clean storm water management infrastructure.	Construction, Operational, Rehabilitation, Closure.	~15 300 m	Control by only clearing the area required for the proposed development. Control by implementing surface water management, erosion control, and dust control practices	GNR 704 requirements to be adhered to. Ensure compliance to the conditions of the WUL.
Dirty water pipelines, including pipelines from the pit to the PCD, pipelines from the office complex to the Sewage Treatment Plant (STP) and dirty stormwater management infrastructure	Construction, Operational, Rehabilitation, Closure.	~5 200 m	Control by implementing surface water management. Control by developing and implementing maintenance plan. Control by limiting surface disturbance and vegetation clearing; Control by ensuring the proper design, construction, and maintenance of the infrastructure.	GNR 704 requirements to be adhered to. Leakages are addressed timeously. Ensure compliance to the conditions of the WUL.

ACTIVITIES E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) Volumes, tonnages and hectares or m ²	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	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
Infrastructure development in close proximity to watercourses: PCD, opencast mining pits, reservoir, conveyors, roads, pipelines, powerlines, mine complex, STP, topsoil stockpiles, overburden stockpiles, and associated infrastructure. Post-closure stormwater management dam.	Construction, Operational, Rehabilitation, Closure, Post-closure	PCD: 5.8 ha Opencast pits: 636.4 ha Conveyors & service roads: ~27 300 m Roads: ~17 600 m Haul roads: ~28 00 m Mine complex: ~25 ha STP: ~0.5 ha Topsoil stockpiles: ~12.5 ha Softs: ~5 ha	Control by limiting the area to be as small as possible; Control by demarcating watercourses and no-go areas; Control by diverting clean water around areas and managing clean and dirty water separately, as well as containing and managing dirty water in line with acceptable standards; Control erosion and implement dust control measures; Control by constructing infrastructure in the dry season, if possible.	Resource Quality Objectives and Water Quality Planning Limits for the catchment to be complied with. GNR 704 requirements to be adhered to.

ACTIVITIES	PHASE (of operation in which activity will take place)	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc.</p> <p>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.</p>	<p>State</p> <p>Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure</p>	<p>Volumes, tonnages and hectares or m²</p>	<p>E.g. storm water control, dust control, noise control, access control, rehabilitation 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>
		Contaminated dump: ~95 ha		
Potable water reservoir south of the Workshop Stores Offices	Construction, Operational, Rehabilitation, Closure.	Storage tank: ~380 kl	Control by limiting the area of disturbance	Ensure compliance to the conditions of the WUL.
Construction of haul roads, upgrade of an intersection of a provincial road and upgrade and diversion of a district road	Planning and design, Construction, Operational, Rehabilitation, Closure.	<p>Roads: ~17 00 m</p> <p>Haul roads: ~2 800 m</p>	<p>Control by limiting the area of disturbance;</p> <p>Remediate by removing and storing all utilizable soil;</p> <p>Remediate by protecting the area from erosion, compaction and contamination;</p> <p>Control by implementing dust control measures.</p> <p>Control by upgrading roads where required</p>	<p>Applicable standards for PM10 and PM2.5 are not exceeded.</p> <p>GNR 704 requirements to be adhered to.</p>
Sewage treatment plant at the mine complex	Planning and design, Construction, Operational,	STP: ~0.5 ha	Control by ensuring the proper design, construction, and	Resource Quality Objectives and Water Quality Planning Limits for the catchment to be complied with (should treated water be discharged into the environment).

ACTIVITIES E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) Volumes, tonnages and hectares or m ²	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	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
	Rehabilitation, Closure.		maintenance of the infrastructure.	Ensure compliance to the conditions of the WUL.
Clearing of vegetation for infrastructure, mining complex, stockpile areas, mining pits	Construction	~850 ha	Control by only clearing the area required for the proposed development; Control by diverting clean water around construction areas; and Control erosion and implement dust control measures.	GNR 704 requirements to be adhered to. Resource Quality Objectives and Water Quality Planning Limits for the catchment to be complied with (related to storm water discharge). Applicable standards for PM10 and PM2.5 are not exceeded.
Opencast mining pits and related activities (including blasting and excavations)	Operational	~636.4 ha	Control by limiting the area of disturbance; Control by ensuring the proper design, construction, and maintenance of the infrastructure Control by implementing an approved rehabilitation design Control by compiling and implementing	GNR 704 requirements to be adhered to. Resource Quality Objectives for the catchment to be complied with (related to storm water discharge).

ACTIVITIES E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) Volumes, tonnages and hectares or m ²	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	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
			decant management plan; Stop by relocating graves that may be impacted; Control by demarcating and enforcing no-go areas; Control by upgrading roads where required Control by maintaining open channels of communication with I&APs and managing stakeholder expectations.	
Storage facility for chemicals within the Explosives magazine. Storage facility for fuel and chemicals within the mine complex workshops. Storage of general or hazardous waste at the mine complex (waste stockpile yards etc)	Construction, Operational	Explosive magazine: ~0.005 ha Bulk fuel and lube bay: ~0.06 ha ISO bin yard: 0.16 ha	Control by ensuring the proper design, construction, and maintenance of the infrastructure. Control by implementing proper management measures for the	Comply with the National norms and standards for the storage of waste

ACTIVITIES E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) Volumes, tonnages and hectares or m ²	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	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
			storage and handling of fuels and chemicals.	
Topsoil stockpiles	Operational, Rehabilitation	~12.5 ha	Control erosion by implementing erosion control measures; Control by implementing recommendations by soil specialist with regarding to height and management of stockpiles.	Applicable standards for PM10 are not exceeded.
ROM tip Overburden stockpiles (hards and contaminated)	Planning and design, Construction, Operational, Rehabilitation, Closure.	ROM tip: ~1.5 ha Contaminated dump: ~95 ha	Control by providing barrier systems using a risk-based approach; Control by separating clean and dirty storm water, as well as collecting and containing dirty runoff and seepage; Control by undertaking concurrent rehabilitation where feasible;	GNR 704 requirements to be adhered to. Ensure compliance to the conditions of the WUL, waste management standards and conditions of the waste management license.

ACTIVITIES E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) Volumes, tonnages and hectares or m ²	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	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
			Control by ensuring that all facilities with the potential to generate dirty storm water runoff, effluent or washdown water are located within the designated dirty water area; Control by diverting clean runoff around the designated dirty areas by means of cut-off canals, sized to accommodate at least the 1:50 year peak flow event; Control by investigating carbon offset strategies	
Dust suppression using mine impacted water	Construction, Operational, Rehabilitation	-	Control by only using mine-impacted water in dirty water management areas with appropriate dirty water management measures;	Ensure compliance to the conditions of the WUL

ACTIVITIES	PHASE (of operation in which activity will take place)	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc.</p> <p>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.</p>	<p>State</p> <p>Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure</p>	<p>Volumes, tonnages and hectares or m²</p>	<p>E.g. storm water control, dust control, noise control, access control, rehabilitation 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>Control by limiting dust suppression to a minimum to prevent excessive runoff.</p>	

10. CLOSURE PLAN

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 basic assessment report or environmental impact reports going forward.	
Baseline environment 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 environment	Environmental attributes for the area will be determined by reviewing existing data and specialist reports which will be updated with new specialist report findings. Input received from stakeholders and authorities was used to better understand the environmental situation.
Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment	Sasol Mining intends to achieve the following objectives: <ul style="list-style-type: none"> - Rehabilitation undertaken concurrently with mining operations. - Revegetate disturbed areas; - Limit erosion; - Minimise the deterioration of water quality; - Minimise the loss of agricultural land; - Maximise clean water runoff; - Limit groundwater contamination; - Limit the impact on the ambient air quality; - Limit impact on watercourses.
Rehabilitation Plan 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	The Alexander Mining Project covers an opencast mining area of approximately 640 ha. Where feasible, concurrent rehabilitation will take place. At the time of mine closure, disturbed areas will be shaped to be free draining. A Rehabilitation Plan will be developed at a later stage and will be included with the draft EIR and EMPr.
Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof	The Closure Plan will comply with the minimum content of a final rehabilitation, decommissioning and closure plan as contained in Appendix 4 of GNR 1147, the Financial Provisioning Regulations dated 20 November 2015, and any subsequent amendments.

	<p>An annual rehabilitation plan and environmental risk assessment report will be included in the EIR/EMPr as per GNR 1147 (and any subsequent amendments).</p> <p>Rehabilitation cost plan will be provided at a later stage.</p>
<p>Decommissioning</p> <p>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>Infrastructure will be required until 2036, when the current LoM is reached. Decommissioning and rehabilitation will commence thereafter in line with the authorised Closure Plan.</p>

11. Any other additional information that needs to be attached as annexures, and be referenced as such under relevant sections, should be attached here: Please see attached appendices.


Paul Cronje

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

Sasol Mining (Pty) Ltd

Name of company (if applicable):

18 August 2022

Date

Thandoluhle Crescentia Nomfanelo Dladla
Commissioner of Oaths RSA

Ex officio Attorney
3 Uno Building, Paul Kruger Street, Trichardt

~~Certified a true copy of the original.~~ 

Date: 18/08/2022



APPENDIX 1 DECLARATION OF THE EAP

I, Gina Martin, 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 (mark whichever is applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations; ☒
- I have a vested interest in the proposed activity proceeding, such vested interest being: ☐



Gina Martin

Signature of the Environmental Assessment Practitioner:


Jones & Wagener (Pty) Ltd Engineering and Environmental Consultants

Name of Company:

17 August 2022

Date:

I certify that the DEPONENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objection to taking the oath, and that he/she considers it to be binding on his/her conscience and which was sworn to and signed before me and that the administering oath complied with the regulations contained in Government Gazette No R 1288 of 21 July 1972, as amended.



Clinton James Ford
Commissioner of Oaths
Associate Chartered Management Accountant
ex officio: Republic of South Africa
59 Bevan Road, Rivonia, Johannesburg

Date: 17/08/2022

CV OF THE EAP



Gina Katelyn Martin



Environmental Scientist - PrSciNat; Registered EAP

Gina holds a BSc (Hons) degree in Geography from WITS University. She has been working at Jones & Wagener since 2012, where she is an Associate and an Environmental Scientist in the Env. Man. Department. With 9 years of experience, her skills include managing and conducting Env. Auth. and licensing processes, site selections, ECO work, and env. audits for companies in the mining, construction, chemical, power generation and waste management industries. Email: gina@jaws.co.za

KEY SKILLS

Environmental Regulatory Processes
Site Selection & GIS Screening
Environmental Audits & ECO work

EDUCATION

PGCE, WITS, 2012
BSc (Hons) Geography, WITS, 2011
BSc Geog. & Ecology, WITS, 2010

PROF. REGISTRATION STATUS

SACNASP PrSciNat (117341)
EAPASA Reg EAP (2019/775)

EMPLOYMENT HISTORY

Jones & Wagener (2012 to date)
Thandulwazi School (2012)
Parktown Girls High (2011)

INDUSTRY INVOLVEMENT

IAIAsa (2013 to date)
Member (3373)
WISA (2022 to date)
GP Branch Committee member (40294)
EAPASA (2020 to date)
Member and Assessor (2019/775)

Relevant Experience

Environmental Authorisation and Licensing processes

Gina's experience in Envir. Auth. and Licensing processes started in 2012. She has significant experience with integrated regulatory processes and her skills include undertaking MRAs, BAs, EIAs, EMPs, WULAs, WMLAs, IIWWMPs as well as project management. The following list of 6 major projects in Gina's professional career involves various aspects of the above mentioned:

- Sasol Mining, Alexander Mining Project, South Africa - In progress
- UCSA, Waste facility rehabilitation, South Africa - 2022
- Dow Agrisciences, Water treatment facility, South Africa - 2018
- Sibanye-Stillwater, Cessation of pumping operations, South Africa - 2017
- Sun International, Decommissioning landfill site, South Africa - 2017
- South32, Klipfontein opencast operations extension, South Africa - 2016

Route / Site Selection and Screening processes

Gina's experience in route / site selections using GIS started in 2015. Her skills range from GIS mapping to the screening of alternatives in terms of environmental, socio-economic and financial risks. The following list of 5 major projects in the last few years in Gina's professional career involves various aspects of the above mentioned:

- NEXTEC, Site selection for proposed power plant, South Africa - 2019
- Glencore, Dragline walkway route identification, South Africa - 2018
- Confidential, Site selection for waste management facility, South Africa - 2018
- Siguiri Gold Mine, Site selection mapping for TSF, Guinea - 2015
- KiPower, Route selection and cost analysis for IPP connection to power grid, South Africa - 2015

Environmental Audits and ECO work

Gina's experience in auditing and as an Environmental Control Officer started in 2015. Since then she has conducted numerous audits of WULs, EMPs, EAs and WMLs for the waste and mining industries. The following list of 4 major projects in Gina's professional career involves various aspects of the above mentioned:

- Sasol Mining, Annual Water Use Licence Audits, South Africa - 2018, 2019, 2021
- Confidential, Inspection for compliance with National Norms and Standards, South Africa - 2018
- Glencore, ECO for dragline relocations, South Africa - 2016
- Lonmin, Waste Management Facility Annual Audits, South Africa - 2015-2019

Signature

10/06/2022

Date



Registration No. 2019/775

Herewith certifies that

Gina Katelyn Martin

is registered as an

Environmental Assessment Practitioner

***Registered in accordance with the prescribed criteria of Regulation 15. (1)
of the Section 24H Registration Authority Regulations
(Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the
National Environmental Management Act (NEMA), Act No. 107 of 1998, as
amended).***

Effective: 01 March 2022

Expires: 28 February 2023

Chairperson

Registrar





herewith certifies that

Gina Katelyn Martin

Registration Number: 117341

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective **19 July 2017**

Expires **31 March 2023**



A handwritten signature in black ink, appearing to read 'Botha'.

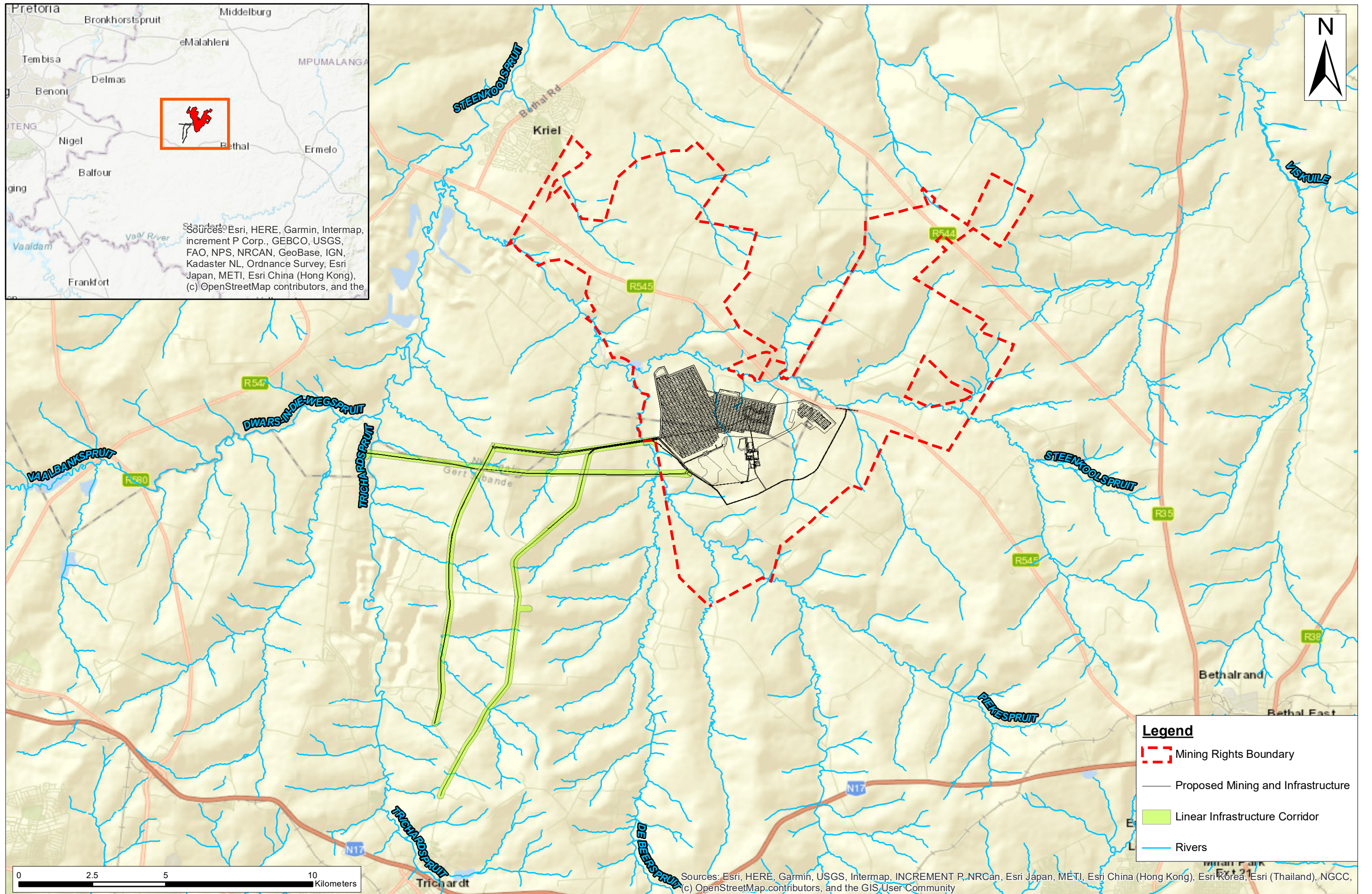
Chairperson

A handwritten signature in black ink, appearing to read 'M. J. ...'.

Chief Executive Officer



APPENDIX 2
LOCALITY MAP



APPENDIX 3
ENVIRONMENTAL AUTHORISATIONS OBTAINED FOR THE SAME PROPERTY



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

Private Bag X7279, Emalahleni, 1035, Tel: 013 653 0500, Fax: 013 656 1474

Saveways Centre, Nelson Mandela Drive, Emalahleni, 1035

Enquiries: Ms. T. T. Ntsizi: Email: Thembakazi.Ntsizi@dmr.gov.za

Ref: (MP) 30/5/1/1/3/2/1/ (10125) EM

Directorate: Mine Environmental Management: Mpumalanga Region

BY HAND

Anglo American Inyosi Coal (Pty) Ltd

Private bag X1

MARSHAL TOWN

2107

Attention: Marline Medallie and Brandon Stobart

Tel no : 011 467 0945

Fax no : 011 782 5301

Email : mmedallie@slrconsulting.com

AMENDMENT OF ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (NEMA) AS AMENDED, AND THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGULATIONS, 2014 FOR PORTIONS 1, 2, 3, 4, 9, 10, 11, 12 AND 14 OF THE FARM ALEXANDER 102 IS, PORTION 81 OF THE FARM TWEEFONTEIN, PORTION 6 AND THE REMAINING EXTENT OF THE FARM DORSFONTEIN, PORTIONS 1, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 20, 21, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 37 AND 39 OF THE FARM WITBANK 80 IS, PORTION 2 OF THE FARM ELANDSFONTEIN 75 IS, PORTION 2, 5 AND 7 OF THE FARM RENSBURGSHOOP 74 IS, PORTIONS 2, 6, 7, 8, 10, 11, 14, 17, 19 AND THE REMAINING EXTENT OF THE FARM KAFFERSTAD 79 IS, PORTIONS 4, 5, 6, 7, 8, 18, 22 AND 25 OF THE FARM WITRAND 103 IS, PORTION 2, 3, 4, 6, 17, 18, 19, 31, 36 AND PORTION OF THE REMAINING EXTENT OF THE FARM AANGEWYS 81 IS, SITUATED WITHIN THE MAGISTERIAL DISTRICT OF BETHAL : MPUMALANGA REGION.

With reference to the abovementioned application, please be advised that the Department has decided to **grant** environmental authorisation for in terms of 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 Environmental Affairs and a courtesy copy of such an appeal to the Department of Mineral Resources (Mpumalanga Regional Office), within 20 days from the date of notification, and such appeal must be lodged as prescribed in Chapter 2 of the National Appeal Regulations of 2014, by means of the methods as per prescribed below:

Appeal to the Department of Environmental Affairs

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

Copy of the lodged appeal to the Department of Mineral Resources

Attention : Regional Manager: Mpumalanga Region
By facsimile : (013) 690 3288
E-mail : aubrey.tshivhandekano@dmr.gov.za
By post : Private Bag X 7279, **WITBANK**, 1035
By hand : Saveways Centre, Nelson Mandela Drive, Emalahleni 1035

Should you decide to appeal, you must comply with the National Appeal Regulation of 2014 in relation to notification of all registered interested and affected parties, and a copy of the official appeal form can be obtained from the Department of Environmental Affairs.

Kind Regards

.....
REGIONAL MANAGER: MINERAL REGULATION
MPUMALANGA REGIONAL OFFICE
DATE:

CC Attention: Marlin Medallie
Synergistics Environmental Services (Pty) Ltd
P.O. Box 1596
Cramerview
2107
FAX No: 011 467 0978
Email: mmedallie@slrconsulting.com

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A. DEFINITIONS

“activity” means an activity identified-

- (a) in Government Notice No. R. 983 of 2014 as a listed activity; or
- (b) in any other notice published by the minister or MEC in terms of Section 24D of the Act as a listed activity or specified activity.

“associated structures or infrastructure” means the building or infrastructure that is necessary for the functioning of a facility or activity or that is used for an ancillary service or use from the facility.

“commence” means the start of any physical activity, including site preparation and any other activity on the site in furtherance of a listed activity or specified activity, but does not include any activity required for purposes of an investigation or feasibility study as long as such investigation or feasibility study does not constitute a listed activity or specified activity.

“construction” means the building, erection or expansion of a facility, structure or infrastructure that is necessary for the undertaking of an activity, but excludes any modification, alteration or upgrading of such facility, structure or infrastructure that does not result in a change to the nature of the activity being undertaken or an increase in the production, storage or transportation capacity of that facility, structure or infrastructure.

“independent”, in relation to an EAP or a person compiling a specialist report or undertaking a specialised process or appointed as a member of an appeal panel, means

- a) that such EAP or person has no business, financial, personal or other interest in the activity, application or appeal in respect of which that EAP or person is appointed in terms of these Regulations other than fair remuneration for work performed in connection with that activity, application or appeal; or
- b) that there are no circumstances that may compromise the objectivity of the EAP or person in performing such work.

“public participation process” in relation to the assessment of the environmental impact of any application for an environmental authorisation, means process by which potential interested and affected parties are given an opportunity to comment on, or raise issues relevant to the application, .

“registered interested and affected party”, in relation to an application, means an interested and affected party whose name is recorded in the register opened for that application in terms of Regulation 42.

“the Act” include the schedule and regulations and any notice issued under the Act.

“the Department” means the Department of Agriculture, Conservation, Environment and Rural Development

“the Regulations” means the Environmental Impact Assessment Regulations, 2014.

B. ENVIRONMENTAL AUTHORISATION

AMENDMENT OF ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (NEMA) AS AMENDED, AND THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGULATIONS, 2014 FOR PORTIONS 1, 2, 3, 4, 9, 10, 11, 12 AND 14 OF THE FARM ALEXANDER 102 IS, PORTION 81 OF THE FARM TWEEFONTEIN, PORTION 6 AND THE REMAINING EXTENT OF THE FARM DORSFONTEIN, PORTIONS 1, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 20, 21, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 37 AND 39 OF THE FARM WITBANK 80 IS, PORTION 2 OF THE FARM ELANDSFONTEIN 75 IS, PORTION 2, 5 AND 7 OF THE FARM RENSBURGSCHOOP 74 IS, PORTIONS 2, 6, 7, 8, 10, 11, 14, 17, 19 AND THE REMAINING EXTENT OF THE FARM KAFFERSTAD 79 IS, PORTIONS 4, 5, 6, 7, 8, 18, 22 AND 25 OF THE FARM WITRAND 103 IS, PORTION 2, 3, 4, 6, 17, 18, 19, 31, 36 AND PORTION OF THE REMAINING EXTENT OF THE FARM AANGEWYS 81 IS, SITUATED WITHIN THE MAGISTERIAL DISTRICT OF BETHAL : MPUMALANGA REGION.

REFERENCE NUMBER: (MP) 30/5/1/3/3/2/1/ (10125) MR

1. BRIEF DESCRIPTION OF THE ACTIVITIES

Anglo American Inyosi Coal (Pty) Ltd (AAIC) intends to establish a new underground coal mine. the coal resource lies within the current AAIC prospecting right areas. The project will involve the development of surface and underground facilities. The project will comprise of underground mine, waste rock dump, topsoil stockpiles, mine related facilities such as workshop, stores, and various support infrastructure and services. Further to this the project will require the construction of an overland conveyor to transport run-of mine coal from the proposed Alexander incline shaft to the Elders Colliery conveyor from where it will be transported to Goedehoop Colliery for beneficiation purpose. No changes to the Elders and Goedehoop infrastructure are required. The mining right area is located approximately 12 km northwest of Bethal and directly to the south and south east of Kriel in the Mpumalanga Province.

2. LOCATION

The project is located on portion 81 of the farm Tweefontein, portion 6 and the remaining extent of the farm Dorsfontein, portions 1, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 20, 21, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 37 and 39 of the farm Witbank 80 IS, portion 2 of the farm Elandsfontein 75 IS, portion 2, 5 and 7 of the farm Rensburgshoop 74 IS, portions 2, 6, 7, 8, 10, 11, 14, 17, 19 and the remaining extent of the farm Kafferstad 79 IS, portions 4, 5, 6, 7, 8, 18, 22 and 25 of the farm Witrand 103 IS, portion 2, 3, 4, 6, 17, 18, 19, 31, 36 and portion of the remaining extent of the farm Aangewys 81 IS, situated within the magisterial district of Bethal : Mpumalanga Region.

3. APPLICANT

Anglo American Inyosi Coal (Pty) Ltd

Private bag X1

MARSHAL TOWN

2107

Attention: Chantelle Gerber

Tel no : 011 638 3479

Fax no : 011 638 4608

Email : chantelle.gerber@angloamerican.com

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER

Synergistics Environmental Services (Pty) Ltd
P.O. Box 1596
Cramerview
2107

Contact Person: Marlin Medallie
Tel No: 011 467 0945
Fax No: 011 467 0978
Email: mmedallie@slrconsulting.com

6. SITE VISIT

A site inspection was never conducted.

7. DECISION

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this Environmental Authorisation. An Authorisation is granted in terms of section 24(2) (a) of the National Environmental Management Act, 1998 (Act No. 107 of 1998, as amended), for:

Government Notice Number R. 983 for:

Activity 12 – the development of (i) canals exceeding 100 square meters in size; (iii) bridges exceeding 100 square meters in size; (xii) infrastructure or structure with physical footprint of 100 square meters or more

Activity 19 – the filling or depositing of any material of more than 5 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic meters (i) a watercourse

Activity 24 – The development of—

- (i) a road for which an environmental authorisation was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Government Notice 545 of 2010; or
- (ii) a road with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;

Activity 27 - "The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for (ii) maintenance purpose undertaken in accordance with a maintenance management plan.

Activity 28 - Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or after 01 April 1998 and where such development:

- will occur inside an urban area, where the total land to be developed is bigger than 5 hectares.

Activity 30 – Any process or activity identified in terms of section 53(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004)

Activity 31- the decommissioning of existing facilities, structure or infrastructure for (i) any development and related operation activity or activities listed in this notice, listing Notice 2 of 2004 or listing Notice 2 of 2014 or Listing Notice 3 of 2014

Government Notice Number R. 984 for:-

Activity 6 - The development of facilities or infrastructure for any process or activity which requires a permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding—

Activity 15 - The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for

- the undertaking of a linear activity; or
- maintenance purposes undertaken in accordance with a maintenance management plan.

Activity 17 - “Any activity including the operation of that activity which requires a mining right as contemplated in section 22 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource, including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).

Government Notice Number R. 985 for:

Activity 12- The clearance of an area of 300 square meters or more of indigenous vegetation expect where such clearance of indigenous vegetation is required for maintenance purposes under taken in accordance with a maintenance plan.

Details / reasons regarding the basis on which the Department reached this decision is set out below:

7.1. BACKGROUND

Anglo American Inyosi Coal (Pty) Ltd (AAIC) (hereinafter referred to as “the company”) lodged an application for EA on **29 January 2016** with an intention to establish a new underground coal mining through Alexander project. The Alexander coal resources lies within the current AAIC prospecting right areas DMR ref numbers: MP30/5/1/1/2(61), MP30/5/1/1/2(54), MP30/5/1/1/2(59). The proposed project entails the new establishment of the underground mining, a waste rock dump, topsoil stockpile, mine related facilities such as workshop, stores and various support infrastructure and services.

Furthermore to this the project will require construction of an overland conveyer to transport coal from run of mine (ROM) coal from the proposed Alexander incline shaft to the Elders Colliery conveyer from where it will be transported to Goedehoop Colliery for beneficiation purposes. No changed to Elders and Goedehoop infrastructure will be added. The proposed mining right area is located on various farms approximately 12 km northwest of Bethal and south east of Kriel in the magisterial district of Bethal

The applicant appointed **Synergistics Environmental Services (Pty) Ltd** to undertake an Environmental Impact Assessment Process.

7.2. INFORMATION CONSIDERED IN MAKING THE DECISION

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

- a) The information contained in the EIAr and EMPr received by the Department on 05 September 2016;
- b) The objectives and requirements of the applicable and relevant legislation, policies and guidelines and the EIA Regulations of 2014;
- c) The objectives and requirements of relevant legislation (Section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998), other environmental legislation, policies and guidelines.
- d) Public Participation Process (PPP) attached as Appendix E of the EIAr and EMPr;
- e) Rehabilitation Plan and Closure report attached to EIAr and EMPr as Appendix G

7.3. KEY FACTORS CONSIDERED IN MAKING THE DECISION

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below:

- a) A sufficient Public Participation Process (PPP) was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations R982 of 2014 for public involvement;
- b) The environmental impacts associated with the proposed activity will be addressed by the implementation of proposed mitigation measures outlined in the EIAr and EMPr compiled by Synergistics Environmental Services (Pty) Ltd;

7.4. FINDINGS

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

- a) The potential impacts on the proposed site were clearly investigated and mitigation measures outlined.
- b) Public Participation Process complied with Chapter 6 of the EIA Regulations R.41 of 2014. The Public participation process included, *inter-alia*, the following:
 - Site notices were placed at the project area
 - Newspaper advert was placed in the corridor gazette

- Proof of consultation with the landowners, interested and affected parties has been provided.
- No objections were raised during the meetings; issues raised during the public participation process were adequately addressed.
- It is envisaged that, should the conditions stipulated in this Environmental Authorisation be complied with, the negative environmental impacts of these activities will be minimised.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the Environmental Authorisation, the authorised activity will not conflict with the general objectives of Integrated Environmental Management laid down in Chapter 5 of the National Environmental Management Act, 1998 (Act No. 107 of 1998), and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels.

The granting of this Authorisation is subject to the following conditions set out below:

8. CONDITIONS

8.1 STANDARD CONDITIONS

- 8.1.1 Authorisation of the activity is subject to the conditions contained in this Authorisation, which forms part of the Environmental Authorisation and are binding on the holder of the Authorisation.
- 8.1.2 The holder of the Authorisation shall be responsible for ensuring compliance with the conditions by any person acting on his or her behalf, including but not limited to, an agent, sub-contractor, employee or person rendering a service to the holder of the Authorisation.
- 8.1.3 The activity which is authorised may only be carried out at the property indicated above (Point B: 2).
- 8.1.4 This activity must commence within a period of **three (3) years** from the date of issue. If commencement of the activity does not occur within that period, the Authorisation lapses and a new application for Environmental Authorisation must be made in order for the activity to be undertaken.
- 8.1.5 If the proponent anticipates that commencement of the activity would not occur within **three (3) year** period, he / she **must** apply and **show good cause** for an extension of the Environmental Authorisation **three (3) months** prior to its expiry date
- 8.1.6 Any changes to, or deviations from, the project description set out in this Authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the Authorisation to apply for further Authorisation in terms of the Regulations.
- 8.1.7 Where any of the applicant's contact details change, including the name of the responsible person, the physical or postal address and/or telephonic details, including

the transfer of this authorization, the applicant must in writing notify the Regional manager of this Department, within **fourteen (14) days** of the above specified change.

- 8.1.8 A copy of this authorisation must be kept on site. The Authorisation must be produced to any Governmental official(s) who may requests to see it for inspection purposes and must be made available to the contractor(s) /subcontractor(s) authorised to undertake to undertake work at the property.
- 8.1.9 This authorisation does not negate the holder of the Authorisation's responsible to comply with any other statutory requirements that may be applicable to the undertaking of the activity.
- 8.1.10 After an appeal period has been expired and no good course to extent the appeal period has been submitted in accordance with Chapter 2 of the National Appeal Regulations of 2014, a **thirty (30) day**-written notice must be given to the Department that the activity will commence. Commencement for purpose for the purpose of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence.

8.2 SPECIFIC CONDITIONS

8.2.1 COMMISSIONING OF THE ACTIVITY

- 8.2.1.1 This Authorisation is hereby solely granted, to establish a new underground coal mine. The project will involve the development of surface and underground facilities. The project will compromise of underground mine, waste rock dump, topsoil stockpiles, mine related facilities such as workshop, stores, and various support infrastructure and services.
- 8.2.1.2 The activity may not commence without the necessary permits/licenses/approvals and/or service agreements, where it is relevant, from or with the relevant regulatory authorities whether national, provincial or local.
- 8.2.1.8 The applicant must apply the principle of best practicable environmental option for all technologies used/implemented during mining.

8.2.1.9 Pre-construction Phase

- a) The applicant must appoint an independent Environmental Control Officer (ECO) who must monitor contractors, compliance with EMP and EA (see 8.2.2. Management of the activity for more details).
- b) The applicant must provide all contractors and sub-contractors with a copy of Environmental Management Plan and Environmental Authorisation prior to the mining activities.
- c) All pre-construction phase mitigation measures as outlined in the Environmental Management Plan (EMP) must be adhered to at all times.
- d) In order to ensure safety, all employees must be given the necessary personnel protective equipment (PPE).

- e) Appropriate notification sign must be erected at the construction site, warning the public (residents, visitors etc.) about the hazard around the construction site and presence of heavy vehicles and machinery.
- f) Construction must include design measures that allow surface and subsurface movement of water along the drainage lines so as not to impede natural surface and subsurface water flow, and drainage measures must promote the dissipation of storm water runoff.
- g) Construction areas (e.g. material lay down areas), topsoil and subsoil must be protected from contamination or pollution. Stockpiling must not take place in drainage lines or areas where it will impede surface water runoff.
- h) If any soil contamination is noted at any phase of the proposed activity (ies), the contaminated soil must be removed to a licensed waste disposal facility and the site must be rehabilitated to the satisfaction of the Department and Department of Water and Sanitation. The opportunity for the onsite remediation and re-use of contaminated soil must be investigated prior to the disposal and this Department must be informed in this regard.

8.2.1.10 Access roads and traffic impact

- a) Necessary signage and traffic measures must be implemented for safe and convenient access to the site from adjacent roads.
- b) Access roads must be well maintained throughout the mining operation.

8.2.1.11 Air quality management

- a) Proper measures must be put in place to suppress dust.
- b) A speed restriction of 40km/h must be enforced and monitored on site for all mining vehicles.

8.2.1.12 Proliferation of alien species

- a) All mining/construction equipments and vehicles must be cleaned before entering and leaving the site to reduce the chances of spreading weeds and invasive species.

8.2.1.13 Noise

- a) Mining/construction activity must be limited to normal working hours (7h00 – 17h00).
- b) Mining vehicles must be fitted with standard silencers prior to beginning of construction.

8.2.1.14 Erosion control measures

- a) All soil surfaces compacted as a result of mining/construction activities must be ripped, and imported materials must be removed.

- b) Any erosion channel developed during mining/construction period or during vegetation establishment must be restored to a proper condition.

8.2.1.15 Excavation activities

- a) Topsoil must be stripped and stockpiled prior to excavation in a designated area.
- b) Under no circumstances should material stockpiles be disposed of outside the boundary of the mining area.

8.2.1.16 Waste management

- a) General waste must be kept in containers which are wind and scavenger proof, and disposed of at a permitted landfill site. No temporary dumping and littering of waste is allowed on site.
- b) No waste must be disposed of through burying and burning.
- c) An emergency preparedness plan to address any pollution incidents (e.i such as oil spillage etc) that occur on site must be developed.

8.2.1.17 Surface and groundwater contamination must be prevented and/or mitigated by implementation of the following conditions

- a) Specific area must be demarcated for fueling and workshop services. And such area must be bunded to reduce the possibility of soil and water contamination.
- b) Irrespective of the nature of a spillage (whether major or minor), all spillages must be cleaned up as soon as they occur.
- c) Spillage of petrochemical products must be avoided. In the case of accidental spillage, contaminated soil must be removed for bioremediation or disposed of at a facility for the substance concerned. Disturbed land must be rehabilitated and seeded with vegetation seed naturally occurring on site.
- d) Untreated sewage water must not be discharged directly into the natural environment.

8.2.1.18 Fire prevention and management

- a) Fire extinguishers that are in good working conditions must be made available at all times for their usage during the occurrence of accidental fires.
- b) Workers must be adequately trained in the handling of fire fighting equipments.
- c) Open fires must strictly be prohibited.
- d) Smoking must be prohibited in the vicinity of flammable substances.
- e) Cooking and heating fires must be permitted only in designated areas with appropriate safety measures.

8.2.1.19 Storm water management

- a) Storm water management plan must be developed, and implemented on site.

8.2.1.20 Safety

- a) Potentially hazardous area must be demarcated with danger tape.
- b) Appropriate signage must be placed to caution employees and contractors not to attempt to enter certain structures without being authorised.

8.2.1.23 Emergency Response Plan

- a) An Emergency Response Plan should be available for accidental spills and fire fighting during both construction and operation of the project.
- b) In the event of emergency, the holder must notify the department within 24hrs, and contact relevant emergency services in the area.
- c) All significant pollution incidents must be reported to this Department within **forty eight (48) hours** of occurrences.

8.2.1.24 Compliance with other legislation

- a) The National Water Act, 1998 (Act 36 of 1998), with particular reference to the sections pertaining re- alignment of a road in the proximity of dams and their catchments areas, rivers, marshes, streams, pans and other water courses.
- b) The Environmental Conservation Act, 1989 (Act 73 of 1989) with particular reference to the requirements of section 20 of the above-mentioned Act.
- c) The National Environmental Management Air Quality Act (Act 36 of 2004), with particular reference to the sections pertaining to the liberation of dust, and other emissions, created by prospecting activities, into the atmosphere.
- d) The Conservation of Agriculture Resources Act, 1983 (Act 43 of 1983), with particular references to the sections pertaining to soil conservation.
- e) The National Heritage Resources Act, 1989 (Act No 25 of 1999), with particular reference to the protection of all historical and pre-historical cultural remains.
- f) The Mine Health and Safety Act, 1996 (Act 29 of 1996) in conjunction with the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), with particular reference to those sections and regulations pertaining to health and safety at mines; mining within 100 m from structures that must be protected; as well as those sections pertaining to rehabilitation of the surface.
- g) The National Environmental Management Act, 1998 (Act 107 of 1998), with particular reference to the principles in chapter 2 of the said Act.

- h) Firebreaks should be established in terms of the requirements and conditions of the National Veld and Forest Fires Act, 1998 (Act No. 101 of 1998).
- i) All provisions of the Occupational Health and Safety Act, 1993 (Act No.85 of 1993) and any other applicable legislation must be adhered to by the holder of this Authorisation.

8.2.1.25 Liability of the holder of this Authorisation

- a) The competent authority shall not be held responsible for any damages or losses suffered by the holder or his/her successor in title in any instance where mining/ construction or operation subsequent to construction are to be temporarily or permanently stopped for reasons of non-compliance by the holder with conditions of approval as set out in the document or any other subsequent document emanating from this Authorisation. The holder shall be responsible for all the costs necessary to comply with the above condition unless otherwise specified.
- b) Any complaint from the public during the construction phase must be attended to by the holder of this Authorisation as soon as possible to the satisfaction of parties concerned.
- c) The contractor must ensure that serviceable ablution facilities are available for employees. It is the responsibility of the holder of the Authorisation to see to it that this condition is adhered to.

8.2.2 MANAGEMENT OF THE ACTIVITY

- 8.2.2.1 A copy of an Environmental Authorisation and EMP must always be available on site so as to monitor compliance with conditions outlined in both the documents. Both documents must be used as on-site reference document.
- 8.2.2.2 The Environmental Management Plan (EMP) prepared by Synergistics Environmental Services (Pty) Ltd (attached to the EIA Report) must be adhered to during the life of the mine.
- 8.2.2.3 All duties and responsibilities as outlined in the EMP attached are binding throughout the construction phase.
- 8.2.2.4 Any proposed amendments to the EMP (as a result of this authorisation or otherwise) must be submitted in writing to this Department for approval prior to the amendment being implemented. On approval of the proposed amendment the EMP must be accordingly amended and adhered to.

8.2.3 Appointment of Environment Control Officer

- a) An Environmental Control Officer must be appointed, who will monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the Environmental Authorisation and Environmental Management Plan, prior to any commencement of construction activities on site.
- b) The Environment Control Officer appointed must monitor the construction of the infrastructure to ensure that the layout plans are in accordance to the designs and record important findings of the site inspection.