



# mineral resources

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

1

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).

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## 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 water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said

application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

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

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	<input checked="" 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 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"/>

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

This is an application for mine expansion (including NEMA Part 2 amendments) requiring a NEMA S&EIR.

Exxaro Coal Central operates five mines namely Forzando North, Forzando South, Dorstfontein West Mine, Dorstfontein East Mine and Tumelo Mines. All mines are underground operations except for the Dorstfontein East Mine which is an opencast mine.

Forzando Coal Mines (Pty) Ltd. (Forzando) holds two prospecting rights 1035PR and 1170PR over the farm Kalabasfontein 232IS (Ptns 7,8,11,13 and Remaining Extent (RE)). These prospecting rights will be expiring in July 2018. This application is for the extension of the current mining areas (under Section 102 of the Minerals and Petroleum Resources Development Act (Act 28 of 2002, as amended) (MPRDA)) by inclusion of contiguous areas, which are currently held under the prospecting rights 1035PR & 1170PR. These areas are scheduled for future underground mining, which will result in extension of the Forzando South Life of Mine (LOM) for an additional seventeen years. It is the intention of Forzando Coal mines to incorporate the Kalabasfontein prospecting rights into the Forzando South mining right (MR), 380MR. An additional ventilation shaft will also be required within the Forzando South mining area on Portion 7 of the farm Uitgedacht 229 IS.

Mining is a listed activity in terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and specifically GNR 984 and, therefore, an environmental authorisation process will have to be undertaken. There will not be any additional surface infrastructure required (apart from the new ventilation shaft) for the proposed project, and all Run of Mine (RoM) and waste will be dealt with at the existing Forzando operations and facilities.

## 2. DETAILS OF THE APPLICANT

Project applicant:	Forzando Coal Mines (Pty) Ltd.		
Registration no (if any):	1970/000578/07		
Trading name (if any):	N/A		
Responsible Person, (e.g. Director, CEO, etc.):	Daniel Jacobus Chrisstoffel Stapelberg		
Contact person:	As above		
Physical address:	Exxaro Coal Central Dorstfontein West, regional Offices Dorstfontein Farm 71 IS R547 Ga-Nala (Kriel)		
Postal address:	Private Bag X5005 Ga Nala		
Postal code:	2271	Cell:	084 548 6744
Telephone:	(+27) 011 441 6890	Fax:	NA
E-mail:	Daniel.Stapelberg@exxaro.com		

## 3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Sonja van de Giessen		
Professional affiliation/registration:	SACNASP: 400084/18		
Contact person (if different from EAP):	Same as EAP		
Company:	Environmental Impact Management Services (Pty) Ltd		
Physical address:	Block 5 Fernridge Office Park, 5 Hunter Avenue, FerndaleRandburg, 2194		
Postal address:	PO Box 2083, Pinegowrie		
Postal code:	2123	Cell:	083 3884633
Telephone:	+27 (11) 789 7170	Fax:	+27 (11) 787 3059
E-mail:	sonja@eims.co.za		

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

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

#### 4. PROJECT DESCRIPTION

<b>Farm Name:</b>	Kalabasfontein 232 IS
<b>Application area (Ha)</b>	1 547.8296 ha
<b>Magisterial district:</b>	Bethal, Govan Mbeki Municipality
<b>Distance and direction from nearest town</b>	Approximately 20km north and 20km east of Bethal and Ga-Nala (Kriel) respectively and 77km south-east of the Town of Emalahleni.
<b>21-digit Surveyor General Code for each farm portion</b>	This environmental authorisation application covers the following farm portions: <ul style="list-style-type: none"> <li>• TOIS00000000023200007;</li> <li>• TOIS00000000023200008;</li> <li>• TOIS00000000023200000;</li> <li>• TOIS00000000023200011;</li> <li>• TOIS00000000023200013; and</li> <li>• TOIS00000000022900007 (ventilation shaft property).</li> </ul>
<b>Locality map</b>	Please find Locality attached as <b>Appendix 2</b> .
<b>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)</b>	<p>Forzando holds two prospecting rights 1035PR and 1170PR over the farm Kalabasfontein 232IS (Ptn 7,8,11,13 and Remaining Extent (RE). Forzando Coal mines wishes to incorporate the Kalabasfontein prospecting rights into the Forzando South Mining Rights 380MR, to extend the LoM by an additional seventeen years.</p> <p>The mining method will be bord and pillar underground mining and making use of a continuous miner. The target mineral is coal. As the Kalabasfontein project will use the existing Forzando South and Forzando North infrastructure, minimal additional infrastructure will be required. An additional ventilation shaft will be required at Forzando South on Portion 7 of the farm Uitgedacht 229IS.</p> <p>An application for environmental authorisation will be undertaken, which will include relevant amendments to the existing mine works programme, Environmental Management Programme Report (EMPR), Social and Labour Plan and Regulation 2.2 plan. Thereafter a MPRDA Section 102 application will be submitted to the DMR.. A full environmental impact assessment for the proposed new mining area to support this application for an environmental authorisation (EA) will be undertaken. A water use licence application (WULA) process for the relevant water uses that will be triggered by the proposed project will also be undertaken in terms of the National Water Act (Act 36 of 1998) (NWA).</p>

## 5. ACTIVITIES TO BE AUTHORISED

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

(For an application for authorisation indicated. Please note that for a project that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be included. 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 2**).

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...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...etc...etc.)</p>	Ha or m <sup>2</sup>	(Mark with an X where applicable or affected).		<p>(Indicate whether an authorisation is required in terms of the Waste Management Act).</p> <p>(Mark with an X)</p>
<p><b>Water pipelines</b></p> <p>"The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of water or storm water—</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more;</p> <p>excluding where—</p> <p>(a) such infrastructure is for bulk transportation of water or storm water or storm water drainage inside a road reserve or railway line reserve; or</p> <p>(b) where such development will occur within an urban area."</p>	Size to be confirmed in EIAR	X	Activity 9 of GN983	-

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p><b>Water Pipelines for Process Water for Mining</b></p> <p>The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes –</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more;</p> <p>excluding where—</p> <p>(a) such infrastructure is for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes inside a road reserve or railway line reserve; or</p> <p>(b) where such development will occur within an urban area.</p>	Size to be confirmed in EIAR	X	Activity 10 of GN983	-
<p><b>Possible Underground Pollution Control Dam</b></p> <p>The development of—</p> <p>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area, exceeds 100 square metres; or</p> <p>(ii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse; —</p> <p>excluding—</p> <p>(aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;</p> <p>(bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies;</p>	To be confirmed in EIAR	X	Activity 12 of GN983	-

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such development occurs within an urban area;</p> <p>(ee) where such development occurs within existing roads, road reserves or railway line reserves; or</p> <p>(ff) the development of temporary infrastructure or structures where such infrastructure or structures will be removed within 6 weeks of the commencement of development and where indigenous vegetation will not be cleared.</p>				
<p><b>Underground Pollution Control Dam</b></p> <p>The development of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50000 cubic metres or more, unless such storage falls within the ambit of activity 16 in Listing Notice 2 of 2014.</p>	Size to be determined in EIAR	X	Activity 13 of GN983	-
<p><b>Underground Mining will result in excavation of more than 10 cubic metres of soils and rock from watercourse</b></p> <p>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</p> <p>but excluding where such infilling, depositing, dredging, excavation, removal or moving—</p> <p>(a) will occur behind a development setback;</p> <p>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</p> <p>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;</p> <p>(d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or</p> <p>(e) where such development is related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies.</p>	To be confirmed with authority during EIAR	X	Activity 19 of GN983	-

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p><b>Internal roads – Internal Haul Roads</b></p> <p>"The development of a road—</p> <p>(i) 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</p> <p>(ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres; but excluding a road—</p> <p>(a) which is identified and included in activity 27 in Listing Notice 2 of 2014;</p> <p>(b) where the entire road falls within an urban area; or</p> <p>(c) which is 1 kilometre or shorter."</p>	Routes & area to be confirmed in EIAR	X	Activity 24 of GN983	-
<p><b>All infrastructure (ventilation shaft) and underground mining extension</b></p> <p>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—</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	To be confirmed in EIAR once biodiversity specialist has confirmed amount of indigenous vegetation on site	X	Activity 27 of GN983	-
<p><b>Infrastructure Development and use of water for Dust Suppression</b></p> <p>The expansion of existing facilities or infrastructure for any process or activity where such expansion will result in the need for a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the release of emissions, effluent or pollution, excluding—</p> <p>(i) where the facility, infrastructure, process or activity is included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies;</p> <p>(ii) the expansion of existing facilities or infrastructure for the treatment of effluent, wastewater, polluted water or</p>	Needs to be determined during the EIAR	X	Activity 34 of GN983	-



Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
sewage where the capacity will be increased by less than 15 000 cubic metres per day; or (iii) the expansion is directly related to aquaculture facilities or infrastructure where the wastewater discharge capacity will be increased by 50 cubic meters or less per day.				
<b>Possibility of utilization of existing pipelines</b> The expansion of infrastructure for the bulk transportation of water or storm water where the existing infrastructure— (i) has an internal diameter of 0,36 metres or more; or (ii) has a peak throughput of 120 litres per second or more; and (a) where the facility or infrastructure is expanded by more than 1 000 metres in length; or (b) where the throughput capacity of the facility or infrastructure will be increased by 10% or more; excluding where such expansion— (aa) relates to transportation of water or storm water within a road reserve or railway line reserve; or (bb) will occur within an urban area.	To be confirmed in EIAR	X	Activity 45 of GN983	
<b>Possibility of utilization of existing pipelines</b> The expansion and related operation of infrastructure for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes where the existing infrastructure— (i) has an internal diameter of 0,36 metres or more; or (ii) has a peak throughput of 120 litres per second or more; and (a) where the facility or infrastructure is expanded by more than 1 000 metres in length; or (b) where the throughput capacity of the facility or infrastructure will be increased by 10% or more; excluding where such expansion— (aa) relates to the bulk transportation of sewage, effluent, process water, waste water, return water,	To be confirmed in EIAR	X	Activity 46 of GN983	

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>industrial discharge or slimes within a road reserve or railway line reserve; or</p> <p>(bb) will occur within an urban area.</p>				
<p><b>Internal roads - Upgrades to existing roads for transport of RoM to off-site minerals processing complex</b></p> <p>"The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre-</p> <p>(i) where the existing reserve is wider than 13,5 meters; or</p> <p>(ii) where no reserve exists, where the existing road is wider than 8 metres;</p> <p>excluding where widening or lengthening occur inside urban areas."</p>	<p>Routes &amp; area to be confirmed in EIA phase</p>	<p>X</p>	<p>Activity 56 of GN983</p>	-
<p><b>Transfer of Process Water</b></p> <p>The expansion of facilities or -infrastructure for the transfer of water from and to or between any combination of the following-</p> <p>(i) water catchments;</p> <p>(ii) water treatment works; or</p> <p>(iii) impoundments;</p> <p>where the capacity will be increased by 50 000 cubic metres or more per day, but excluding water treatment works where water is treated for drinking purposes.</p>	<p>To be confirmed in EIAR</p>	<p>X</p>	<p>Activity 63 of GN983</p>	-
<p><b>Pollution Control Dam</b></p> <p>The development of facilities or infrastructure for any process or activity which requires a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding-</p> <p>(i) activities which are identified and included in Listing Notice 1 of 2014;</p> <p>(ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies;</p>	<p>To be confirmed during EIAR</p>	<p>X</p>	<p>Activity 6 of GN984</p>	-

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>(iii) the development of facilities or infrastructure for the treatment of effluent, polluted water, wastewater or sewage where such facilities have a daily throughput capacity of 2 000 cubic metres or less; or</p> <p>(iv) where the development is directly related to aquaculture facilities or infrastructure where the wastewater discharge capacity will not exceed 50 cubic metres per day.</p>				
<p><b>Conveyors</b></p> <p>The development and related operation of facilities or infrastructure for the bulk transportation of dangerous goods-</p> <p>(i) in gas form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 700 tons per day;</p> <p>(ii) in liquid form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day; or</p> <p>(iii) in solid form, outside an industrial complex, using funiculars or conveyors with a throughput capacity of more than 50 tons day.</p>	To be confirmed in EIAR	X	Activity 7 of GN984	
<p><b>Pollution Control Dam</b></p> <p>The development of facilities or infrastructure for the transfer of 50 000 cubic metres or more water per day, from and to or between any combination of the following.</p>	To be confirmed in EIAR.	X	Activity 11 of GN984	
<p><b>All infrastructure for underground mining extension</b></p> <p>"The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan."</p>	To be confirmed in EIAR.	X	Activity 15 of GN984	
<p><b>Pollution Control Dam</b></p> <p>The development of a dam where the highest part of the dam wall, as measured from the outside toe of the wall to the highest part of the wall, is 5 metres or higher or</p>	To be confirmed during EIAR	X	Activity 16 of GN984	

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
where the high-water mark of the dam covers an area of 10 hectares or more.				
<p><b>General mining activities</b></p> <p>"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—</p> <p>(a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource; or</p> <p>(b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing;</p> <p>but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.</p>	1547 ha	X	Activity 17 of GN984	
<p><b>Roads</b></p> <p>The development of a road wider than 4 meters with a reserve less than 13.5 meters.</p>	To be determined during the EIAR.	X	Activity 4 of GN985	
<p><b>Shaft</b></p> <p>The clearance of an area of 300 square meters or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004</p>	To be confirmed once the Biodiversity Specialist Study has been concluded in the EIA phase.	X	Activity 12 of GN985	
<p><b>Pollution Control Dam</b></p> <p>The development of—</p> <p>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10 square metres; or</p>	To be confirmed during EIA phase	X	Activity 14 of GN985	

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>(ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.</p>				
<p><b>Haul and Access Roads</b></p> <p>The widening of a road by more than 4 meters; or the lengthening of a road by more than 1 kilometre.</p>	To be confirmed during the EIAR	X	Activity 18 of GN985	

## 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?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties been identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted?	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify	<u>Any other interested and affected parties identified during the course of the EIA process.</u>	

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

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. NB the affected parties must be specifically consulted regardless of whether or not they	PROVIDE DESCRIPTION HERE
	Interested and Affected Parties (I&AP's) have been notified of the project via registered letters, emails and facsimiles including distribution of a Background Information Document (BID). Site notices and posters have been placed in and around the application area. An initial notification 20-calendar day commenting period has been undertaken for this project.

<p>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 <b>Appendix 4</b>).</p>	<p>The initial notification included a questionnaire requesting comment on the proposed project. Site notices have been placed in, and around, the application area. In addition, newspaper advertisements were placed in the "The Highvelder" and "The Ridge Times" newspapers which are widely distributed in the area and advertisements. The public participation process has been, and will continue to be, undertaken in accordance with the NEMA process and the 2014 Regulations. I&amp;AP's have been provided an initial notification and a call to register for a period of 20 days. The scoping report will be made available for public review and comment for a period of 30 days, within the prescribed timeframes following submission of this Application Form. A further period of 30 days will be provided to I&amp;AP's to comment on the EIA/EMPR during that phase of the application process. The 30 days will ensure that the Water Use Licence technical report (that will form part of the EIA report) complies with the consultation requirements as specified in the NWA GNR 267.</p> <p>The information submitted by I&amp;AP's via any form will be utilised during the Impact Assessment and compilation of the Scoping and EIAR.</p>
<p><b>Information to be provided to Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• The site plans.</li> <li>• List of activities to be authorised.</li> <li>• Scale and extent of activities to be authorised.</li> <li>• Typical impacts of activities to be authorised.</li> <li>• The duration of the activity.</li> <li>• Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.</li> </ul> <p><b>Other, specify:</b></p> <ul style="list-style-type: none"> <li>• The purpose of the proposed project.</li> <li>• Details of the affected properties (including parent farm and portion).</li> <li>• Details of the MPRDA and NEMA Regulations that must be adhered to.</li> <li>• The activities being applied for.</li> <li>• Date by which comment, concerns and objections must be submitted.</li> <li>• Contact details of the Environmental Assessment Practitioner (EAP).</li> </ul>

<p><b>Information to be required from Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions.</li> <li>• To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity.</li> <li>• To provide information on current land uses and their location within the area under consideration.</li> <li>• To provide information on the location of environmental features on site to make proposals as to how, and to what standard, the impacts on site can be remedied.</li> <li>• To mitigate the potential impacts on their socio-economic conditions to make proposals as to how the potential impacts can be managed, avoided or remedied.</li> <li>• Landowners to provide contact details of all land occupiers.</li> </ul> <p><b>Other, Specify:</b></p> <ul style="list-style-type: none"> <li>• Details of the landowner and information on lawful occupiers.</li> <li>• Details of any communities existing within the area.</li> <li>• Details of any Tribal Authorities within the area.</li> <li>• Details of any other I&amp;AP's that need to be notified.</li> <li>• Details on any land developments proposed.</li> <li>• Details of any perceived impacts to the environment that should be considered in the Scoping and EIAR.</li> <li>• Any specific comments concerns or objections to the proposed mining expansion project.</li> </ul>
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**7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN**

ITEM	DESCRIPTION
<p><b>Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.</b></p>	<p>For Scoping, the description of the existing status of the current receiving environment will be compiled through desktop data, available GIS information as well as from recent monitoring reports and available information from the existing mine. This will be updated in the EIA phase once detailed specialist investigations have been completed.</p>



<p><b>Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.</b></p>	<p>The identification of potential impacts and risks for assessment will be undertaken through I&amp;AP consultation and the development of an in depth understanding of the activities, actions and processes to be undertaken on site based on the EAP's experience with similar projects as well as input from specialists. As such, the potential impacts and risks on broad environmental aspects, in respect of each of the main project actions, activities and processes will be assessed during the Scoping and EIA process.</p>
<p><b>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.</b></p>	<p>The identification and assessment of alternatives is a key component to the success of any EIA process. Essentially, alternatives represent different means of meeting the general purpose and need of the proposed project through the identification of the most appropriate method of development. Two levels of alternative screening will be investigated and considered which culminate into the identification of the feasible development alternative. The first level alternatives include land use, location, mining method, etc. These alternatives will determine the optimal placement and process for the proposed mining operation. After these viable alternatives have been assessed (if any), the level two alternatives; including technology, phasing and site layout alternatives will be considered in order to ensure the best practicable option is proposed for the activity.</p>
<p><b>Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</b></p>	<p><u>Method of Assessing Impacts:</u></p> <p>The impact assessment methodology is guided by the requirements of the NEMA EIA Regulations. The broad approach to the significance rating methodology is to determine the <u>environmental risk (ER)</u> by considering the <u>consequence (C)</u> of each impact (comprising Nature, Extent, Duration, Magnitude, and Reversibility) and relate this to the <u>probability/likelihood (P)</u> of the impact occurring. This determines the environmental risk. In addition, other factors, including cumulative impacts, public concern, and potential for irreplaceable loss of resources, are used to determine a <u>prioritisation factor (PF)</u> which is applied to the ER to determine the overall <u>significance (S)</u>.</p> <p><u>Determination of Environmental Risk:</u></p> <p>The significance (S) of an impact is determined by applying a prioritisation factor (PF) to the environmental risk (ER).</p> <p>The environmental risk is dependent on the consequence (C) of the particular impact and the probability (P) of the impact occurring. Consequence is determined through the consideration of the Nature (N), Extent (E), Duration (D), Magnitude (M), and reversibility (R) applicable to the specific impact.</p>

For the purpose of this methodology the consequence of the impact is represented by:

$$C = \left( \frac{E + D + M + R}{4} \right) \times N$$

Each individual aspect in the determination of the consequence is represented by a rating scale as defined in Table 1.

**TABLE 1: CRITERIA FOR DETERMINING IMPACT CONSEQUENCE**

Aspect	Score	Definition
Nature	- 1	Likely to result in a negative/ detrimental impact
	+1	Likely to result in a positive/ beneficial impact
Extent	1	Activity (i.e. limited to the area applicable to the specific activity)
	2	Site (i.e. within the development property boundary),
	3	Local (i.e. the area within 5 km of the site),
	4	Regional (i.e. extends between 5 and 50 km from the site)
	5	Provincial / National (i.e. extends beyond 50 km from the site)
Duration	1	Immediate (<1 year)
	2	Short term (1-5 years),
	3	Medium term (6-15 years),
	4	Long term (the impact will cease after the operational life span of the project),
	5	Permanent (no mitigation measure of natural process will reduce the impact after construction).
Magnitude/ Intensity	1	Minor (where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected),
	2	Low (where the impact affects the environment in such a way that natural, cultural and social functions and processes are slightly affected),
	3	Moderate (where the affected environment is altered but natural, cultural and social functions and processes continue albeit in a modified way),

	4	High (where natural, cultural or social functions or processes are altered to the extent that it will temporarily cease), or
	5	Very high / don't know (where natural, cultural or social functions or processes are altered to the extent that it will permanently cease).
Reversibility	1	Impact is reversible without any time and cost.
	2	Impact is reversible without incurring significant time and cost.
	3	Impact is reversible only by incurring significant time and cost.
	4	Impact is reversible only by incurring prohibitively high time and cost.
	5	Irreversible Impact

Once the C has been determined the ER is determined in accordance with the standard risk assessment relationship by multiplying the C and the P. Probability is rated/scored as per Table 2.

**Table 2: Probability Scoring**

Probability	1	Improbable (the possibility of the impact materialising is very low as a result of design, historic experience, or implementation of adequate corrective actions; <25%),
	2	Low probability (there is a possibility that the impact will occur; >25% and <50%),
	3	Medium probability (the impact may occur; >50% and <75%),
	4	High probability (it is most likely that the impact will occur- > 75% probability), or
	5	Definite (the impact will occur),

The result is a qualitative representation of relative ER associated with the impact. ER is therefore calculated as follows:

$$ER = C \times P$$

**Table 3: Determination of Environmental Risk**

Consequence	5	5	10	15	20	25
	4	4	8	12	16	20

3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5
Probability					

The outcome of the environmental risk assessment will result in a range of scores, ranging from 1 through to 25. These ER scores are then grouped into respective classes as described in Table 4.

**Table 4: Significance Classes**

Environmental Risk Score	
Value	Description
< 9	Low (i.e. where this impact is unlikely to be a significant environmental risk),
≥9; <17	Medium (i.e. where the impact could have a significant environmental risk),
≥ 17	High (i.e. where the impact will have a significant environmental risk).

The impact ER will be determined for each impact without relevant management and mitigation measures (pre-mitigation), as well as post implementation of relevant management and mitigation measures (post-mitigation). This allows for a prediction in the degree to which the impact can be managed/mitigated.

**Impact Prioritisation:**

Further to the assessment criteria presented above it is necessary to assess each potentially significant impact in terms of:

- Cumulative impacts; and
- The degree to which the impact may cause irreplaceable loss of resources.

In addition, it is important that the public opinion and sentiment regarding the development and consequent potential impacts is considered in the decision-making process. In an effort to ensure that these factors are considered, an impact prioritisation factor (PF) will be applied to each impact ER (post-mitigation). This prioritisation factor does not aim to detract from the risk ratings but rather to focus the attention of the decision-making authority on the higher priority/significance issues and impacts. The PF will be applied to the ER score based on the assumption that relevant suggested management/mitigation measures are implemented.'

**Table 5: Criteria for Determining Prioritisation**

Public response (PR)	Low (1)	Issue not raised in public response.
	Medium (2)	Issue has received a meaningful and justifiable public response.
	High (3)	Issue has received an intense meaningful and justifiable public response.
Cumulative Impact (CI)	Low (1)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.
	Medium (2)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is probable that the impact will result in spatial and temporal cumulative change.
	High (3)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is highly probable/definite that the impact will result in spatial and temporal cumulative change.
Irreplaceable loss of resources (LR)	Low (1)	Where the impact is unlikely to result in irreplaceable loss of resources.
	Medium (2)	Where the impact may result in the irreplaceable loss (cannot be replaced or substituted) of resources but the value (services and/or functions) of these resources is limited.
	High (3)	Where the impact may result in the irreplaceable loss of resources of high value (services and/or functions).

The value for the final impact priority is represented as a single consolidated priority, determined as the sum of each individual criteria represented in **Table 5**. The impact priority is therefore determined as follows:

$$\text{Priority} = \text{PR} + \text{CI} + \text{LR}$$

The result is a priority score which ranges from 3 to 9 and a consequent PF ranging from 1 to 2 (Refer to Table 6).

**Table 6: Determination of Prioritisation Factor**

Priority	Ranking	Prioritisation Factor
3	Low	1
4	Medium	1.17
5	Medium	1.33

6	Medium	1.5
7	Medium	1.67
8	Medium	1.83
9	High	2

In order to determine the final impact significance, the PF is multiplied by the ER of the post mitigation scoring. The ultimate aim of the PF is to be able to increase the post mitigation environmental risk rating by a full ranking class, if all the priority attributes are high (i.e. if an impact comes out with a medium environmental risk after the conventional impact rating, but there is significant cumulative impact potential, significant public response, and significant potential for irreplaceable loss of resources, then the net result would be to upscale the impact to a high significance).

**Table 7: Final Environmental Significance Rating**

Environmental Significance Rating	
Value	Description
< -10	Low Negative (i.e. where this impact would not have a direct influence on the decision to develop in the area),
≥ -10 < -20	Medium Negative (i.e. where the impact could influence the decision to develop in the area),
≥ -20	High Negative (i.e. where the impact must have an influence on the decision process to develop in the area).
< 10	Low Positive (i.e. where this impact would not have a direct influence on the decision to develop in the area),
≥ 10 < 20	Medium Positive (i.e. where the impact could influence the decision to develop in the area),
≥ 20	High Positive (i.e. where the impact must have an influence on the decision process to develop in the area).

**Contribution of specialist reports**  
**Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.**

Several EIA-phase specialist studies will be undertaken to address the key issues that required further investigation. The specialist studies involved the gathering of data relevant to identifying and assessing environmental impacts that may occur because of the proposed project. These impacts were then assessed according to pre-defined rating scales. Specialists also recommend appropriate mitigation / control or optimisation measures to minimise potential negative impacts or enhance potential benefits, respectively. The following specialist studies are likely to be required and undertaken in the EIA phase:

- Hydrological Studies;
- Geo-Hydrology Studies;
- Air Quality Studies;
- Blasting and Vibration Studies;
- Heritage and Archaeological Studies;
- Noise Studies;
- Ecology;
- Wetland Studies;
- Soils, Land Use and Capability;
- Visual Impact Assessment;
- Social Impact Assessment;
- Agricultural impact study;
- Climate change impact study; and
- Closure Plan and Quantum Update.

	<p>All specialists are required to adhere to the EAPs method of assessing impacts, as detailed above. No specialist studies will be undertaken during scoping phase. Specialist studies will be commissioned, and the results will inform the EIA phase assessment with input into the sensitivity mapping.</p> <p>It is crucial to note that the Sensitivity Mapping is to be used as a first level mechanism to provide guidance (where viable) regarding design and layout and identify operational alternatives for further assessment. In addition, the mapping exercise allows the identification of certain spatial characteristics which may not be compatible or desirable for the purpose of infrastructure placement as well as (where possible) circumnavigating potential fatal flaws.</p>
<p><b>Determination of impact management objectives and outcomes.</b> Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.</p>	<p>The objectives of the impact management measures shall be to firstly anticipate and avoid risks and impacts. This shall be accomplished through the adoption of a risk and impact assessment process which aims to identify all relevant environmental and social risks and receptors that are likely to be affected by such risks and impacts, including the issues identified by I&amp;AP's during the consultation process. The impact and risk identification process shall take into consideration each activity and its associated potential impacts. The impact management objectives will be incorporated into and EMPR. The EMPR developed for the project shall include mechanisms whereby social and environmental risks and impacts shall be avoided and mitigated. The objectives of this environmental management framework shall be:</p> <ul style="list-style-type: none"> <li>• To anticipate potential risks and impacts associated with each activity pre-emptively through the implementation of risk assessment techniques and early warning systems such as environmental monitoring and inspections;</li> <li>• To develop and implement preventative measures to ensure known risks and impacts are addressed at source wherever possible (e.g. spill prevention procedures);</li> <li>• To implement detailed management measures to ensure that where avoidance of impacts is not possible, mitigation measures are in place to minimize impacts to workers, affected landowners/occupiers/communities, and the environment; and</li> <li>• To provide a framework for adaptive environmental management within the EMPR whereby impacts from unplanned events or incidents caused by the project may be effectively controlled to minimise impacts to workers, affected landowners/occupiers/communities, and the environment.</li> </ul> <p>The management and mitigation measures shall be developed in accordance with applicable standards and guidelines, which may include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Legislated Standards (e.g.: air quality guidelines and standards);</li> <li>• South African National Standards (SANS) (e.g.: SANS water quality standards);</li> <li>• Where Applicable, International Standards and Guidelines;</li> <li>• Applicable National and Regional Frameworks (e.g.: Bioregional Plans; Spatial Development Frameworks, National Protected Area Expansion Strategy Focus Areas, Environmental Management Frameworks, etc.);</li> <li>• Applicable Guidelines developed by authorities (e.g.: DMR guidelines, NEMA EIA guidelines); and</li> <li>• Other Applicable guidelines (e.g.: Mining and Biodiversity Guidelines).</li> </ul>

	To ensure that the impact management outcomes can be monitored, and performance evaluated, performance targets and indicators shall be developed where appropriate. Compliance and alignment with the prescribed standards shall be measured against the defined Performance Targets and Indicators through the implementation of a system of inspections and compliance monitoring as defined in the EMPR.
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## 8. OTHER AUTHORISATIONS REQUIRED

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

Please provide proof of submission of applications in Appendix 5<sup>1</sup>.

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.

Please take note that the applicability of the following Acts listed below will be confirmed during the EIA Phase of the project:

- National Environmental Management: Biodiversity Act (particularly relating to permit applications for the removal/relocation of potential protected species identified on site); and
- National Heritage Resources Act (particularly relating to potential heritage features and archaeological finds).

Should it be found that any listed activities within these Acts will be triggered; the necessary permit and license application process will be followed in accordance with the regulations. As far as possible, the intended outcome of the EIA and EMPR is to prevent the impacts relating to the above-mentioned legislation.

<sup>1</sup> All applications are captured by this application. Applications to DWS to be completed once final EIA report is ready for submission.



## 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.

<b>ACTIVITIES</b>  (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc  E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	<b>PHASE</b>  (of operation in which activity will take place).  State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE<sup>2</sup></b>  <b>(of Disturbance)</b>  (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b>  (Eg, storm water control, dust control, noise control, access control, rehabilitation etc..., etc...,)	<b>COMPLIANCE WITH STANDARDS</b>  (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)
Excavations/mining	Construction / operation	To be assessed during EIA phase.	Rehabilitation, avoidance of high sensitivity areas, dust and noise control	The typical mitigation measures recommended will comply with all prescribed environmental management standards and practices.
Blasting	Construction / operation	500m radius from blast point	Noise control, health and safety	
Power Line, roads, & pipelines	Operation	To be assessed	Avoidance of sensitive areas	

<sup>2</sup> The size and scale of disturbance is a rough estimated at this stage. More accurate estimates will be provided during the EIA phase.

		during EIA phase.		
Additional infrastructure (Conveyors and Ventilation shaft)	Construction / Operation	To be assessed during EIA phase.	Avoidance of sensitive areas	
Pollution Control Dam	Operation	To be assessed during EIA phase.	Water and salt balance update, stormwater management	
Social issues	All phases	N/A	Compensation, protocols	

## 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 the draft basic assessment report or environmental impact reports going forward.

<p><b>Baseline environment</b></p> <p>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</p>	<p>The baseline environment will be assessed in two phases namely:</p> <ul style="list-style-type: none"> <li>• Phase 1: Scoping &amp; Sensitivity Mapping; and</li> <li>• Phase 2: Environmental Impact Assessment (EIA) and Integrated Environmental Management Programme (IEMPR)</li> </ul> <p><b>Phase 1: Scoping:</b></p> <p>This will require a detailed desktop investigation by the EAP to familiarise themselves with the proposed application area and broadly determine the existing status quo of the receiving environment.</p> <p>The EAP will compile the Scoping Report. The Scoping Report will conform to the requirements of the previously mentioned Acts and include the following:</p> <ul style="list-style-type: none"> <li>• A description of the receiving environment;</li> <li>• Identification and description of anticipated impacts;</li> <li>• Identify and describe reasonable land use or development alternatives;</li> <li>• A description of the process used to engage I&amp;AP's and other Stakeholders;</li> <li>• A high-level impact assessment with the inclusion of preliminary mitigation measures; and</li> <li>• A description of further investigations required in the EIA (Plan of Study).</li> </ul> <p>Review of the report by I&amp;AP's and submission of the report to the authorities will conclude Phase 1.</p> <p><b>Phase 2: Integrated Environmental Impact Assessment (IEIA) and Environmental Management Programme (EMPR):</b></p>
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During the EIA phase of the project, a more detailed investigation will be undertaken for the likely disturbance footprint. On completion of the EIA level assessments, the EAP will begin compilation of the EMPR. The IEIA and EMPR will include the following information:

- A detailed description of the receiving environment;
- A description of the Public Participation Process methodology;
- A record of the findings of the Public Participation Process;
- An Environmental Impact Assessment (EIA) during all project phases;
- An Environmental Management Programme (EMPR) during all project phases;
- Closure and Rehabilitation Plans;
- Calculation of the Financial Provisions;
- A detailed description of the need and desirability of the proposed activity including advantages and disadvantages that the activity will have to the environment and community;
- A description of the methodology used in determining significance of identified impacts;
- A description and comparative assessment of all alternatives identified;
- A summary of the findings and recommendations of any Specialist Studies;
- A description of all identified impacts and an assessment of the significance of each impact before and after implementation of proposed mitigation measures;
- A description of assumptions, uncertainties and gaps in knowledge;
- A recommendation as to whether the activity should be authorised and under what conditions;
- An Environmental Impact Statement including key findings;
- A draft Environmental Management Plan; and
- Copies of any and all specialist studies carried out.

Each identified impact will be assessed for significance by investigating and ranking the nature, duration, extent, magnitude and probability of each impact. In addition to this the reversibility and the potential for irreplaceable loss of resources will also be assessed. In accordance with the requirements of the EIA regulations a Draft Environmental Management Programme (EMPR) will also be prepared.

Following submission of the IEIA, Specialist Studies and Draft EMPR to the registered I&APs for review and comment, the final submission will be made to the DMR.

**Public Participation Process:**

The Public Participation Process (PPP) will be robust and continue to engage interested and affected parties (IAPs) throughout the all phases of the project. As a result of the public notifications, a register will be opened and maintained which will record all contact details of persons whom have submitted written comments or responded to the notification and who have requested that they be registered as I&APs. All registered I&APs will be informed of the required process of involvement as defined by the EIA regulations. All objections and representations received from I&APs will be collected and considered in this application. Responses will be prepared and distributed to those I&APs who submitted comments and/or objections. These comments /objections and

	<p>responses will be recorded in an Issues and Responses Report (IRR) for inclusion into the Scoping Report and EIA Report respectively. In addition, the registered I&amp;APs will be given an opportunity to comment on all reports prepared to be submitted to the DMR.</p>
<p><b>Closure objectives</b></p> <p>Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>The EMPR shall include a closure and rehabilitation plan. The plan shall outline the closure objectives which are, where applicable, aimed at reinstating the landform, land use and vegetation units to the pre-mining land use or similar.</p> <p>Rehabilitate the land which was impacted by the mining activity and the related infrastructure to meet the closure objectives;</p> <ul style="list-style-type: none"> <li>• Remove all infrastructure built in relation to the mining operations which will not be used by the landowners or a third party. Should it happen that the third party may want to use the infrastructure, appropriate arrangements should be made to ensure long term sustainable use of the infrastructure;</li> <li>• Follow a process of closure that is progressive and integrated into the short and longterm plans;</li> <li>• Assess the closure impacts proactively at regular intervals throughout project life;</li> <li>• Implement progressive rehabilitation measures, beginning during the construction phase wherever possible;</li> <li>• Monitor and manage water on site to minimise soil, surface/groundwater contamination;</li> <li>• Comply with national closure and rehabilitation regulatory requirements;</li> <li>• Form active partnerships with local communities to take management of the land after the project has ceased, where possible; and</li> <li>• Maintain and monitor all rehabilitated areas following re-vegetation. If monitoring shows that the objectives have been met, an application for closure can be made.</li> </ul>
<p><b>Rehabilitation Plan</b></p> <p>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</p>	<p>The extent of the proposed new underground mining area is approximately 1547 ha. It is expected that the area will be fully rehabilitated at closure.</p> <p>A rehabilitation plan will be drawn to a suitable scale and provided in the EIAR.</p>

<p>the draft EIR or Basic Assessment Report as the case may be.</p>	
<p><b>Rehabilitation Cost</b> Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>The quantum for financial provision will be calculated using the Financial Provisioning Regulations, GN1147 (2015) in terms of the NEMA.</p> <p>The rehabilitation cost will be calculated in detail with input from the various specialists assigned to the project and will be subject to annual review. Furthermore, the rehabilitation cost will also be based on implementation of the management measures to be included in the EMPR and revised accordingly for inclusion into the EIA.</p>
<p><b>Decommissioning</b> Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting/exploration or mining/production activity.</p>	<p>Decommissioning and closure will be described in detail in the EMPR.</p>

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

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Name of company (if applicable):

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Date:

**APPENDIX 1A**  
**DECLARATION OF THE EAP**

I, Sonja van de Giessen, declare that –

General declaration:

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

- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

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

- I 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:~~

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Signature of the environmental assessment practitioner:

**Environmental Impact Management Services (Pty) Ltd**

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Name of company:

28 June 2018

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Date:



**APPENDIX 1**  
**CURRICULUM VITAE OF SONJA VAN DE GIESSEN**



## CURRICULUM VITAE

<b>Name:</b>	Sonja Ruth van de Giessen
<b>Nationality:</b>	South African
<b>Date of Birth:</b>	16 July 1974
<b>Profession:</b>	Environmental Scientist
<b>Professional Qualification/ Training:</b>	MSc. Environmental Management, North-West University, 2018.
	BSc Honours Environmental Management; University of South Africa, 2011.
	ISO 14001:2004 certificate, A.C.T. Advantage, Pretoria, 2013.
	B Tech Degree in Nature Conservation, Technikon Pretoria (1997).
	Diploma in Nature Conservation ( <i>cum laude</i> ) Technikon Pretoria, (1995).
	N4 National Tourist Guiding Certificate, Drumbeat Academy, 1998..
<b>Professional Membership/ Registrations:</b>	SACNASP Pri. Sci. Nat. (Registration no. 400084/18).
<b>Current Employer:</b>	Environmental Impact Management Services (Pty) Ltd.

## KEY EXPERIENCE

Sonja van de Giessen is a senior consultant with more than three years of experience in environmental impact assessments and environmental management. Her core experience and expertise is in the mining industry sector, focusing on Environmental Impact Assessments, Environmental Management Programmes, Water Use Licence Applications and Integrated Water and Waste Management Plans, and Environmental Auditing. Her involvement in such projects varies from project management, to the compilation of technical and environmental documentations and reports. Sonja is registered as a trainee certified natural scientist in the field of environmental science with SACNASP.

## CAREER SUMMARY

<b>Period:</b> January 2016- Current	<b>Organisation:</b> EIMS	<b>Position:</b> Senior Environmental Assessment Practitioner
<b>Key Projects/Assignments</b>	<p><u>Senior EAP:</u> Responsible for managing various projects. Main responsibilities include:</p> <ul style="list-style-type: none"> <li>• Compilation of Basic Assessment;</li> <li>• Compilation of Scoping and Environmental Impact Assessment Reports;</li> </ul>	



	<ul style="list-style-type: none"> <li>• Compilation of IWWMP reports; and</li> <li>• Compilation of Environmental Management Plans.</li> </ul> <p><b>Project Experience:</b></p> <ul style="list-style-type: none"> <li>• Ilima Coal (Pty) Ltd. Integrated Water and Waste Management Plan and Water Use Licence Application, 2018.</li> <li>• Deelkraal and Kusasaletu Integrated Water and Waste Management Plan Update, 2018.</li> <li>• Tetra 4 Virginia Cluster 1 Gas Production, Integrated Water and Waste Management Plan, 2017.</li> <li>• S. Bothma and Son Transport (Pty) Ltd. Integrated Water and Waste Management Plan, 2017.</li> <li>• Ilima Coal (Pty) Ltd. EIR/EMPR Amendment Application, 2017.</li> <li>• Sungu Sungu ER313 Oil and Gas Exploration Application.</li> <li>• Pembani Coal Carolina (Pty) Ltd. Basic Assessment for Prospecting Right Application, 2016.</li> <li>• Pembani Coal Carolina. Prospecting Right Application.2016.</li> <li>• Motouane, Ladysmith Exploration Project, Scoping Report, 2016.</li> <li>• Final EMPR amendment for Pembani Coal Carolina (Pty) Ltd., 2016.</li> </ul>	
<p><b>Period: November 2013- May 2016</b></p>	<p><b>Organisation: Clean Stream Environmental Consultants</b></p>	<p><b>Position: Junior Environmental Scientist</b></p>
<p><b>Key Projects/Assignments</b></p>	<p><b>Environmental Scientist for the following:</b></p> <ul style="list-style-type: none"> <li>• Drizit Environmental (Pty) Ltd. Waste Licence Application. 2013.</li> <li>• Anglo Coal (Pty) Ltd. Landau Integrated Waste Licence Application.2016.</li> <li>• Anglo Coal (Pty) Ltd. Mafube Integrated Waste Licence Application.2013.</li> <li>• Sasol Mining (Pty) Ltd. Impumelelo Mine, Scoping Report. 2016.</li> <li>• Schoongezicht Coal Mine Scoping Report. 2014.</li> <li>• Kuyasa Mining Delmas Coal Environmental Authorisation Application for a Prospecting Right. 2015.</li> <li>• Independent Environmental Auditor for Stuart Coal Water Use Licence Audit Report. 2014.</li> <li>• Independent Environmental Auditor for Vastek Trading (Pty) Ltd. Chrome Beneficiation Plant Environmental Audit Photo Report. 2015.</li> </ul>	



## LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Good
German	Excellent	Excellent	Good

## DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications and that, at the time of signature.

Sonja van de Giessen

26 June 2018

Signature of Staff Member

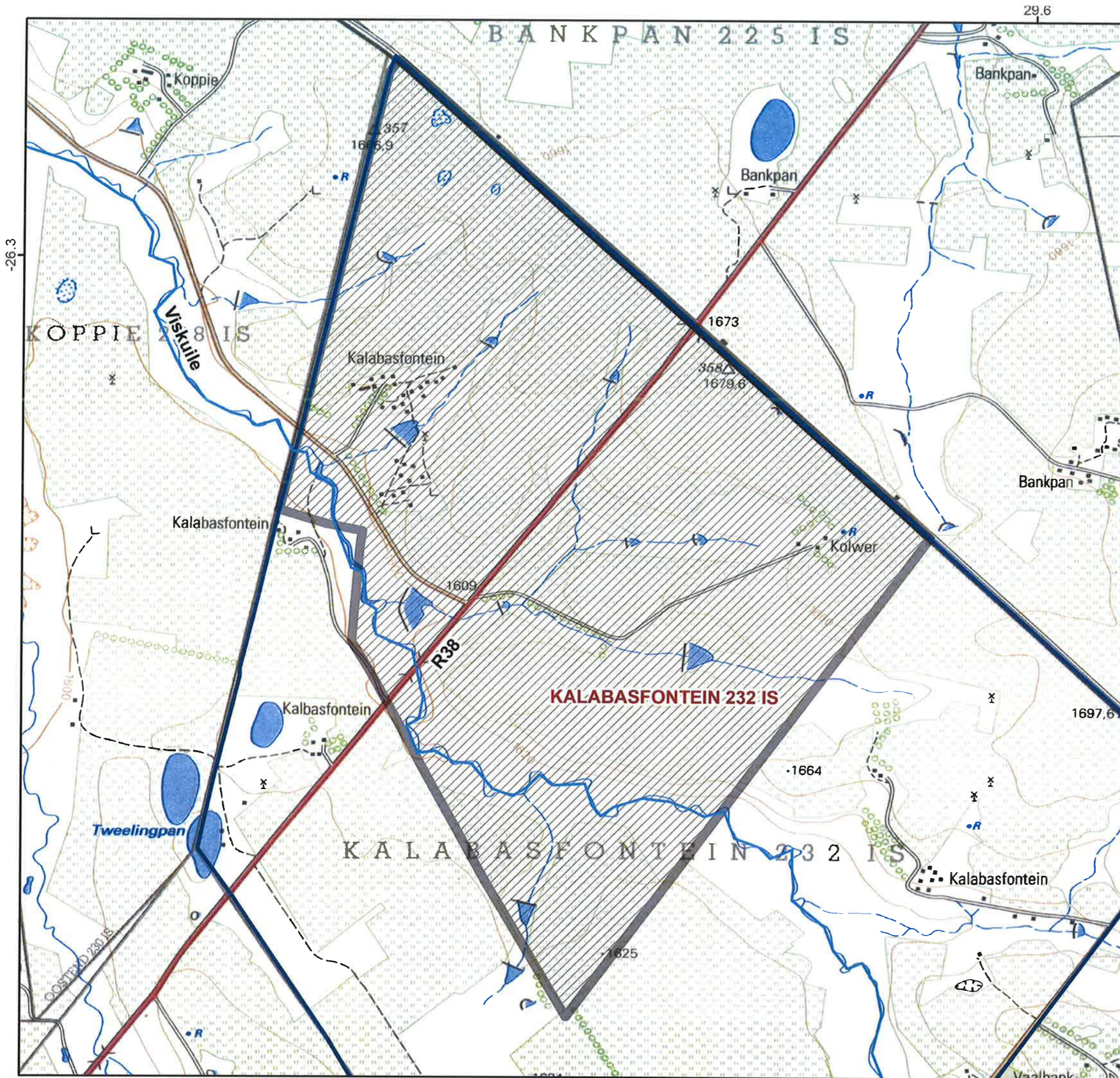
Date







**APPENDIX 2**  
**LOCALITY MAP**

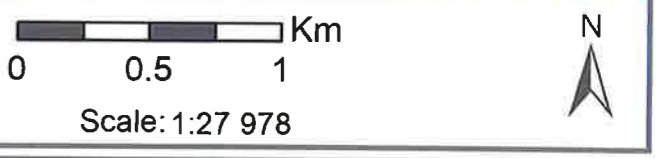
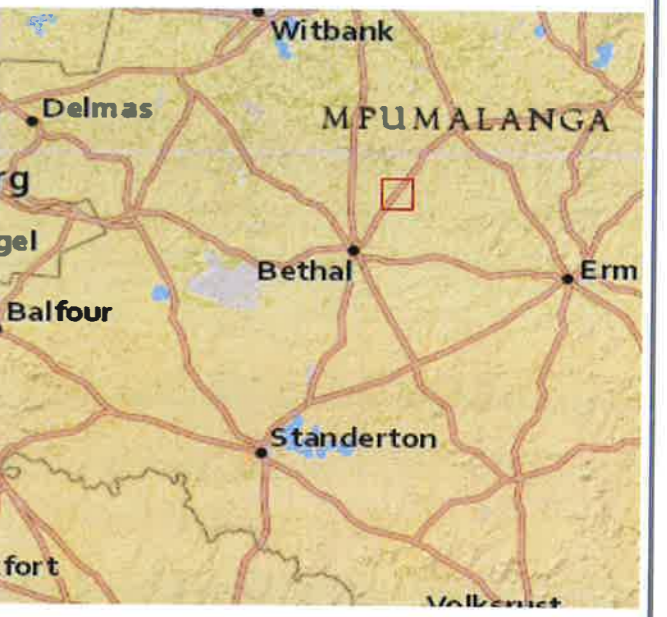






**Proposed Kalabasfontein Project Locality**  
1244 kalabasfontein EIA and WULA

- Legend**
-  Proposed Project Area
  -  Kalabasfontein 232 IS Boundary
  -  Roads
  -  Secondary Rivers



Data Sources:  
ENPAT 2000; CSG, ESRI; WR2012  
Coord System: GCS WGS 1984  
Datum: WGS 1984  
Units: Degree  
Ref: Kalabasfontein locality

Date: 2018/06/15  
EIMS Ref: 1244  
Compiled: PH  
Reviewed: LW  
Approved: LW





29.5

-26.3

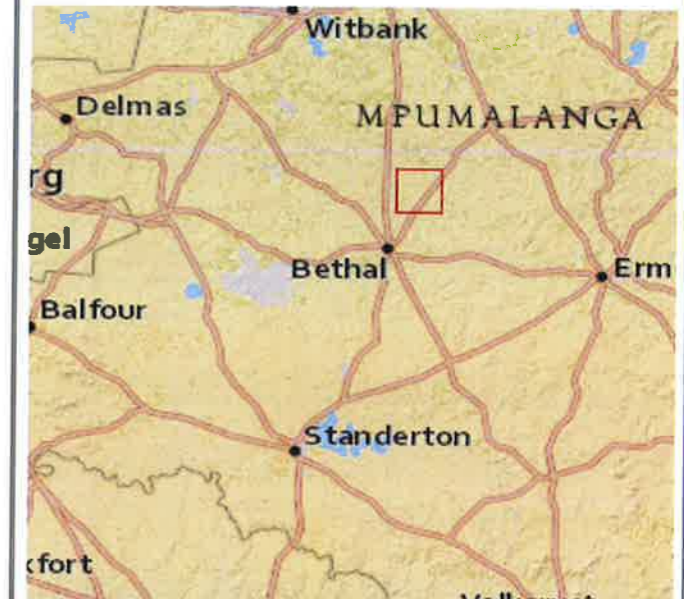


### Venting Shaft Locality

1244 Kalabasfontein EIA and WULA

### Legend

-  Proposed Project Area
-  Railway
-  Parent Farm
-  Roads
-  Vent Shaft Area



Scale: 1:40 842



Data Sources:  
 ENPAT 2000; CSG, ESRI; WR2012, NFEPA  
 Coord System: GCS WGS 1984  
 Datum: WGS 1984  
 Units: Degree  
 Ref: Vent Shaft Locality

Date: 2018/06/27  
 EIMS Ref: 1244  
 Compiled: PH  
 Reviewed: SvdG  
 Approved: LW



**APPENDIX 3**

**ENVIRONMENTAL AUTHORISATIONS / MINING RIGHT AND PROSPECTING RIGHTS**



## mineral resources

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

Private Bag X7279, Emalahleni, 1035, Tel: 013 653 0500, Fax 013 690 3288  
Province Building, Cnr Botha Avenue & Paul Kruger Street, Emalahleni, 1035  
Directorate: Mineral Regulation: Mpumalanga Region  
Enquiries: Ms PN Chuene **Sub-directorate:** Mineral Laws  
**Ref:** MP 30/5/1/1/2/1035 PR

### **Registered Mail**

The Directors  
Forzando Coal Mines (Pty) Ltd  
PO Box 2344  
Saxonwold  
Johannesburg  
2132

**Fax No: 011 880 0245**

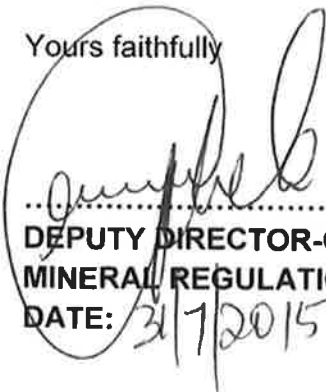
Dear Sir/Madam

**APPLICATION FOR RENEWAL OF A PROSPECTING RIGHT IN TERMS OF SECTION 18 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002): PORTIONS 7, 8 AND THE REMAINING EXTENT OF THE FARM KALABASFONTEIN 232 IS, SITUATED IN THE MAGISTERIAL DISTRICT OF BETHAL.**

1. This serves to inform you that your application for the renewal of your right to prospect for **coal** in respect of the above mentioned properties has been granted in terms of section 18(3) of the said Act.
2. Be further informed that the Regional Manager: Mpumalanga Region will prepare the final copies of the notarial deed of renewal of the right to be signed.
3. To enable the Regional Manager, to sign the aforesaid deed you are hereby required to.
  - 3.1. Submit 2 copies of the prospecting work programme for the renewal period
  - 3.2. Submit a resolution/power of attorney adopted or passed by authorized body of your company appointing a representative of the company together with the represent certified ID copy.

- 3.3. Information of the public notary before whom the notarial deed of renewal will be signed
  - 3.4. Make arrangements for the authorized representative(s) of your company to be present and attend the signing of the deed of renewal of a prospecting right in question on a date of which the Regional Manager will communicate to you.
4. Note further that in terms of section 19(2)(a)(ii) of the Act, the notarial deed of renewal of a prospecting right must be lodged for registration at the Mineral and Petroleum Titles Registration Office, Pretoria, within 30 days as from the date of execution of the notarial deed of renewal of a prospecting right.
  5. **Failure to comply may result in the withdrawal, suspension or cancellation of the right in question.**

Yours faithfully



.....  
DEPUTY DIRECTOR-GENERAL:  
MINERAL REGULATION:  
DATE: 31/7/2015



## mineral resources

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

Private Bag X7279, Emalahleni, 1035. Tel: 013 653 0500, Fax 013 690 3288  
Province Building, Cnr Botha Avenue & Paul Kruger Street, Emalahleni, 1035

Directorate: Mineral Regulation: Mpumalanga Region  
Enquiries: Ms PN Chuene Sub-directorate: Mineral Laws

Ref: MP 30/5/1/1/2/1170 PR

### **Registered Mail**

The Directors  
Forzando Coal Mines (Pty) Ltd  
PO Box 2344  
Saxonwold  
Johannesburg  
2132

**Fax No: 011 880 0245**

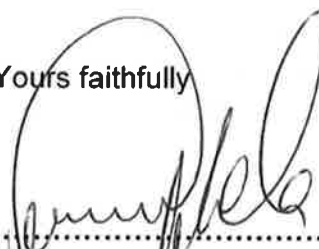
Dear Sir/Madam

**APPLICATION FOR RENEWAL OF A PROSPECTING RIGHT IN TERMS OF SECTION 18 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002): PORTIONS 11 AND 13 OF THE FARM KALABASFONTEIN 232 IS, SITUATED IN THE MAGISTERIAL DISTRICT OF BETHAL.**

1. This serves to inform you that your application for the renewal of your right to prospect for **coal** in respect of the above mentioned properties has been granted in terms of section 18(3) of the said Act.
2. Be further informed that the Regional Manager: Mpumalanga Region will prepare the final copies of the notarial deed of renewal of the right to be signed.
3. To enable the Regional Manager, to sign the aforesaid deed you are hereby required to.
  - 3.1. Submit 2 copies of the prospecting work programme for the renewal period
  - 3.2. Submit a resolution/power of attorney adopted or passed by authorized body of your company appointing a representative of the company together with the represent certified ID copy.

- 3.3. Information of the public notary before whom the notarial deed of renewal will be signed
  - 3.4. Make arrangements for the authorized representative(s) of your company to be present and attend the signing of the deed of renewal of a prospecting right in question on a date of which the Regional Manager will communicate to you.
4. Note further that in terms of section 19(2)(a)(ii) of the Act, the notarial deed of renewal of a prospecting right must be lodged for registration at the Mineral and Petroleum Titles Registration Office, Pretoria, within 30 days as from the date of execution of the notarial deed of renewal of a prospecting right.
5. **Failure to comply may result in the withdrawal, suspension or cancellation of the right in question.**

Yours faithfully



.....  
**DEPUTY DIRECTOR-GENERAL:**  
**MINERAL REGULATION:**  
DATE: 31/7/2015





**DEPARTMENT: MINERAL RESOURCES  
REPUBLIC OF SOUTH AFRICA**

**CONVERTED MINING RIGHT**

Converted in terms of Item 7 of Schedule II of the Mineral and Petroleum Resources Development Act,  
2002 (Act No. 28 of 2002)



TABLE OF CONTENTS

<b>Heading</b>	<b>Clause</b>
Preamble	
Definitions	
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Commencement, Duration and Renewal	3
Amendment, Variation and Abandonment	4
Payment of Royalties	5
Payment of Interest	6
Restrictions and Obligations imposed on the Holder	7
Conditions on Disposal of Minerals and or Products Derived from Mining	8
Mortgage, Cession, Transfer, and Alienation	9
Protection of Boreholes, Shafts, Adits, Openings and Excavations	10
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Social and Labour Plan	18
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Domicilia citandi et executandi	20
Costs	21



PNC



**AND**

Karen Margaret Ravenscroft in her capacity as the company's representative, and as such, the duly authorised representative of Forzando Coal Mines (Pty) Ltd Identification/Registration number:

1 9 7 0 / 0 0 0 5 7 8 / 0 7

(Hereinafter together with her successors in title and assigns referred to as "the Holder", she, the said representative, being duly authorised thereto under and by virtue of a resolution of directors of the Holder, passed at Pretoria on the 28<sup>th</sup> day of January in the year 2013 which power of attorney or a certified copy of a resolution has this day been exhibited to me, the notary, and remain filed of record in my protocol with the minutes hereof.)

**AND THE MINISTER AND HOLDER DECLARED THAT:**

**WHEREAS** The State is the custodian of the Nation's mineral and petroleum resources in terms of section 3 of the Act.

**AND WHEREAS** The Holder has applied for conversion of an old order mining right in terms of Item 7 of Schedule 2 to the Act.

**AND WHEREAS** The **DIRECTOR-GENERAL** of the Department of Mineral Resources has by virtue of powers delegated to him, converted the Holder's old order, mining right in terms of Item 7 of the Schedule to the Act.

**NOW THEREFORE THE MINISTER CONVERTS THE HOLDER'S OLD ORDER MINING RIGHT SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:**



g PVC

## Definitions

In this mining right, the following words and expressions shall have the following meanings:

'**Act**' means the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) and includes the Regulations, guidelines, circulars, directives and orders made in terms of that Act;

'**Environmental Management Programme**' is as defined in the Act and includes any other Environmental Management Programme approved in terms of the previous mining legislation;

'**Financial year**' means a complete financial year of the Holder which, at the time of the granting of this mining right, commences on 1<sup>st</sup> day of **January** in the year **2013**; and ends on 31<sup>st</sup> day of **December** in the year **2013**;

'**Holder**' is as defined in the Act, and specifically in relation to this right, it means **Forzando Coal Mines (Pty) Ltd** Registration No/Identification No **197000057807**;

'**Mineral**' is as defined in the Act, and specifically in relation to this right means **coal**;

'**Mining Area**' is as defined in the Act and includes any additional area of environmental liability as may be reflected on the Environmental Management Programme relating to this right;

'**Mining right**' is as defined in the Act and includes all the Annexures to it, agreements and inclusions by reference;

'**Mining Work Programme**' is as defined in the Act and as reflected in the attached **Annexure A** to this mining right;

'**Minister**' means the Minister of Mineral Resources and includes the successors in title, the assignee or any person duly authorised to act in the Minister's place and stead;

'**Old order mining right**' is as defined in the Schedule to the Act;

'**Regional Manager**' is as defined in the Act and specifically in relation to this right means the Regional Manager for the **Mpumalanga** Region of the Department of Mineral Resources;

'**Social and Labour Plan**', is as contemplated in regulation 46 of the Regulations to the Act and is as reflected in the attached **Annexure B** to this mining right; and



**1. Description of the Mining Area**

The Mining Area shall comprise the following.

Certain: **various portions of farms as per annexure C**

Situated: **Bethal Magisterial/Administrative District of Bethal**

Measuring: **4307.5549 hectares in extent.**

(In the case of various farms being involved, a list can be attached and referred to as **Annexure** ( ):  
Which Mining Area is described in detail on the attached Diagram/plan marked **Annexure(I)**).

**2. Conversion of Old Order Mining Right**

Without detracting from the provisions of Item 7 of the schedule to the Act, sections 5 and 25 of the Act, the Minister converts the holder's old order right and grants to the Holder the sole and exclusive right to mine, and recover the mineral/s in, on and under the mining area for the Holder's own benefit and account, and to deal with, remove and sell or otherwise dispose of the mineral/s, subject to the terms and conditions of this mining right, the provisions of the Act and any other relevant law in force for the duration of this right.

**3. Commencement, Duration and Renewal**

3.1. This mining right shall commence on **28<sup>th</sup> June 2013** and, unless cancelled or suspended in terms of clause 13 of this right and or section 47 of the Act, will continue to be in force for a period of **sixteen (16) years ending on 27<sup>th</sup> June 2029**.

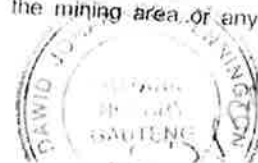
3.2. The Holder must continue to conduct mining operations failing which this right may be cancelled or suspended.

3.3. Any application for renewal must be submitted to the Regional Manger not later than 60 working days prior to the date of expiry of this right.

**4. Amendments, Variation and Abandonment**

4.1. The terms of this right (including by extension of the area covered by it or by the addition of minerals or a share or shares or seams, mineralized bodies, or strata, which are not at the time the subject thereof) may not be amended or varied without the written consent of the Minister.

4.2. The Holder shall be entitled to abandon or relinquish the right or the area covered by the right entirely or in part. Upon abandonment or relinquishment of the mining area or any portion thereof, the Holder must.



4.2.1 Furnish the Regional Manager with all prospecting and/or mining results and/or information, as well as the general evaluation of the geological, geophysical and borehole data in respect of such abandoned area in so far as it applies to the mineral or any other mineral/s obtained in respect of this right and.

4.2.2 Apply for a closure certificate in terms of section 43 (3) of the Act.

4.3 With effect from the date the Holder has abandoned or relinquished a portion or portions of the mining area, and subject to section 43 of the Act, the Minister is entitled to grant any right, permit, or permission referred to in the Act in, on, or under the portion/s, so abandoned or relinquished, to any person/s.

#### 5. **Payment of Royalties and other Monies**

5.1. The Holder shall as contemplated in section 25 (2) (g) pay to the State throughout the duration of this mining right, any royalties payable in terms of any Act or Amendment to an Act of Parliament implemented.

5.2. If, prior to the commencement of the Act, the Holder of this right paid any royalties, levies, fees, or consideration to the state, the Holder shall continue to pay same applicable to such old order mining right until such time a relevant Act of parliament is implemented.

#### 6. **Payment of Interest**

If mining fees, any fees, any levy, royalties or consideration referred to in clause 5 are not paid punctually, the Holder shall be in mora and shall pay interest thereon at the rate prescribed in terms of section 80 of the Public Finance Management Act, 1999 (Act 1 of 1999) reckoned from the date on which payment is due and payable, to the date of actual payment.

#### 7. **Restrictions and Obligations Imposed on the Holder**

7.1 The Holder is entitled to the rights referred to in section 5(2), (3) and section 25 of the Act, and such other rights as may be contained in this mining right or such other right as may be granted to, acquired by or conferred upon the Holder by any other applicable law.

7.2 Mining operations in the mining area must be conducted in accordance with the Mining Work Programme and any amendment to such Mining Work Programme and an approved Environmental Management Plan.

7.3 The Holder shall not trespass or enter into any homestead, house or its curtilage nor interfere with or prejudice the interests of the occupiers and/or owners of the surface of the Mining Area except to the extent to which such interference or prejudice is necessary for the purposes of enabling the Holder to properly exercise the Holder's rights under this mining right.







14.2 The Holder shall furnish to the Regional Manager all such monthly returns contemplated in section 28 (2) A of the Act not later than the 15<sup>th</sup> day of the month following the month in respect of which it was reported.

14.3 The Holder shall furthermore at the end of each year following commencement of this mining right, inform the Regional Manager in writing of any new developments and of the future mining activities planned in connection with the exploitation/mining of the minerals on the Mining Area.

**15. Minister's liability for Payment of Compensation**

The Minister shall not at any time be liable or responsible for the payment of compensation of whatever nature to the Holder, the Holder's successors-in-title or assignee, or any person whomsoever as a result of the conversion of this right

**16. Compliance with the Laws of the Republic of South Africa**

The conversion of this Right, does not exempt the Holder and its successors in title and/or assigns from complying with the relevant provisions of the Mine Health and Safety Act, (Act No.29 of 1996) and any other law in force in the Republic of South Africa.

**17. Provisions relating to section 2(d) and (f) of the Act**

In the furthering of the objects of this Act, the Holder is bound by the provisions of an agreement or arrangement dated **28<sup>th</sup> October 2008** entered into between the Holder/empowering partner and **Mmakau Coal (Pty) Ltd a company which owns 26% in the holder (Annexure E)** (the empowerment partner) which agreement or arrangement was taken into consideration for purposes of compliance with the requirements of the Act and or Broad Based Economic Empowerment Charter developed in terms of the Act and such agreement shall form part of this right.

**18. Social and Labour Plan**

18.1 The holder must annually, not later than three months before the end of its financial year, submit a detailed implementation plan to give effect to Regulation 46(e) (i), (ii) and (iii) in line with the Social and Labour Plan.

18.2 The holder must annually, not later than three months after finalisation of its audited annual report, submit a detailed report on the implementation of the previous year's social and labour plan.



18  
18.2



20.3 Either party shall be entitled from time to time to change the *domicilia citandi et executandi* or postal address furnished above after giving at least 14 days prior written notice of such change to the other party, failing which the above mentioned addresses will remain in force.

20.4 Any written notice or communication contemplated in this clause which is forwarded by one party to the other by registered post will be presumed to have been received by the addressee on the fourteenth day following the date of posting from an address within the Republic of South Africa to the addressee at the postal address of the addressee for the time being as determined in accordance with the provisions of this clause.

**21. Costs**

The Holder shall pay all costs and charges incurred in connection with the execution and registration of this prospecting right.

Thus done and signed at **Emalahleni** on the 28<sup>th</sup> day of **June** in the year **2013** in the presence of the undersigned witnesses:

**AS WITNESS:**





For and on behalf of the **Minister**

**AS WITNESS:**





For and on behalf of the **Holder**

**Notary Public**



OT 5/3/2/570

Page 1 of 2

ANNEXURE A

This annexure pertains to mining licence No...../2004 issued in favour of Forzando Coal Mines (Pty) Ltd, Registration No 70/00578/07 and the properties listed herein jointly comprises  
 (i) The land that forms the subject of the said licence, and  
 (ii) The mining area concerned.

FARM	PORTION	EXENT (HA)	MINERAL	MINERAL RIGHT HOLDER	NOTARIAL DEED/TITLE DEE	DOC NO ON FILE
Bankoan 225 IS	Mineral Area 2 (Ptn of MA 1)	296, 0096	Coal	Total Exploration (Pty) Ltd	K1581/2002 RM	No 11 Page 4
	RE 1	9, 5618	Coal	Total Exploration (Pty) Ltd	K1585/2002 RM	No 21 Page 3
Koppie 228 IS	RE 2	281, 9697	Coal	Total Exploration (Pty) Ltd	K1588/2002 RM	No 22 Page 4
	RE 3 (Retroboth)	453, 3509	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 22 Page 8
	5 (of 1)	453, 3424	Coal	Total Exploration (Pty) Ltd	K1587/2002 RM	No 10 Page 3
	Mineral Area 2 on RE 1	171, 3727	Coal	Total Exploration (Pty) Ltd	K1588/2002 RM	No 22 Page 4
	Mineral Area 1 on RE 3	316, 7257	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 3
	RE 4 (of 1)	250, 0000	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 8
	RE 5 (of 1)	85, 4412	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 9
	RE 12 (of 5)	151, 6205	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 13
	RE 13 (of 5)	73, 2406	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 13
	RE 14 (of 5)	146, 4813	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 13
Kalabasfontein	RE 15 (of 4)	73, 2406	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 13
	RE 16 (of 4)	30, 1927	All Minerals	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 13
	RE 17 (of 4)	56, 1019	All Minerals	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 13
	RE 18 (of 4)	56, 1029	All Minerals	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 11
Schurvekop 227 IS	RE 10 (of 9)	234, 7444	All Minerals	Total Exploration (Pty) Ltd	K1586/2002 RM	No 9 Page 11-12
	RE 14 (of 9)	71, 9487	Coal	Total Exploration (Pty) Ltd	K1586/2002 RM	No Page 12
Uitgedacht 229 IS	Mineral Area 2 (Ptn of MA 1)	1, 2648	Coal	Total Exploration (Pty) Ltd	K1587/2002 RM	No 10 Page 3
	Mineral Area 4 (Ptn of MA 3)	87, 3027	Coal	Total Exploration (Pty) Ltd	K1587/2002 RM	No 10 Page 3
	Portion 7	28, 4379	Coal	Total Exploration (Pty) Ltd	K2152/2002 RM	No 8 Page 5
Uitgedacht 229 IS	Portion 8	107, 0665	Coal	Total Exploration (Pty) Ltd	K5520/1999 RM	No 7 Page 4
	Portion 8	128, 4798	Coal	Total Exploration (Pty) Ltd	K5520/1999 RM	No 7 Page 7
				Gold Fields Coal Ltd		
				Gold Fields Coal Ltd		

to each line.

306

Schurvekop 227 IS	Portion 3	222, 4942	Coal	Gold Fields Coal Ltd	K5520/1999 RM	No 7 Page 5
	RE 4	135, 8504	Coal	Gold Fields Coal Ltd	K5520/1999 RM	No 7 Page 3
	Portion RE	193, 9374	Coal	Gold Fields Coal Ltd	K5520/1999 RM	No 7 Page 6
	RE Portion 5	74, 8752	Coal	Gold Fields Coal Ltd	K5520/1999 RM	No 7 Page 4
	Portion 21	90, 9180	Coal	Gold Fields Coal Ltd	K5520/1999 RM	No 7 Page 4
	Portion 23	8565m2	Coal	Gold Fields Coal Ltd	K5520/1999 RM	No 7 Page 4

  
**M.A. OBERHOLZER**  
 DIRECTOR: MPUMALANGA REGION  
 MPUMALANGA REGION

DATE 2004/03/10

K2: Sijesemhanga r1ghaCT 532-574km

2

(C)

ANNEXURE B 1 (380 MR)

LIST OF PROPERTIES IN RESPECT OF AN APPLICATION FOR A CONVERSION OF AN OLD ORDER MINING RIGHT INTO A MINING RIGHTS IN TERMS OF ITEM 2 IN SCHEDULE 11 TRANSITIONAL ARRANGEMENTS, OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 2002 (ACT 28 OF 2002) BY GORZA INDUSTRIAL MINES PROPERTY AREA LIMITED OVER 30A1

Mineral Area 2 (portion of Mineral Area 1) of the farm Bankpan 225 IS, remaining extent, remaining extent of portions 1, 2, 3 (Rehoboth) and portion 5 (portion of portion 1) of the farm Koppie 228 IS, Mineral Area 2 on remaining extent of portion 1, Mineral Area 1 on remaining extent of portion 3, remaining extent of portion 4 (portion of portion 1), remaining extent of portion 5 (portion of portion 1), remaining extent of portion 12 (portion of portion 5), remaining extent of portion 13 (portion of portion 5), remaining extent of portion 14 (portion of portion 5), remaining extent of portion 15 (portion of portion 4) for all Minerals, remaining extent of portion 16 (portion of portion 4) for all Minerals, remaining extent 17 (portion of portion 4) for all Minerals, remaining extent 18 (portion of portion 4) for all Minerals, Portions 7 and 8 of the farm Ugedacht 229 IS, remaining extent of portion 10 (portion of portion 9), remaining extent of portion 14 (portion of portion 9) of the farm Kalabasfontein 23 IS, Mineral Area 2 (portion of Mineral Area 1) and Mineral Area 4 (portion of Mineral Area 3), portion 3, remaining extent of portion 4, portion of the remaining extent, remaining extent of portion 5, portions 21 and 23 of the farm Schurvekop 227 IS; Magisterial District of Bethal.

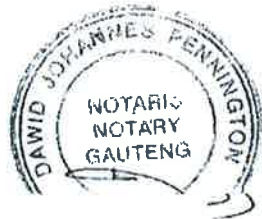
Signed at Cape Town on this 10<sup>th</sup> day of November 2011.

*Stewart*

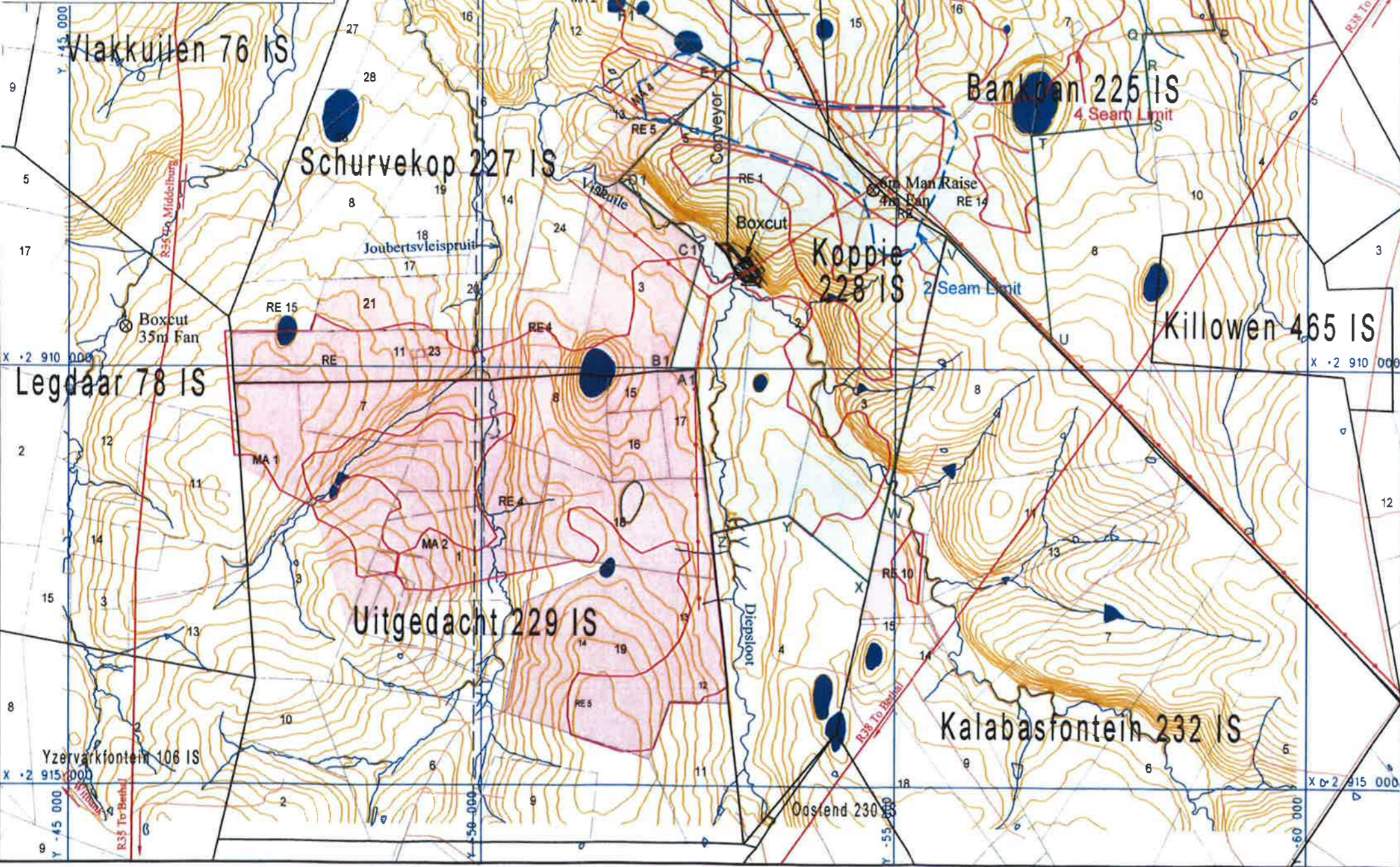
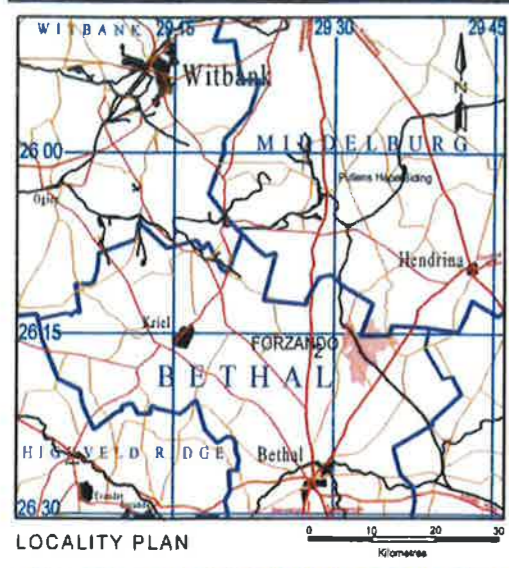
DIRECTOR-GENERAL:  
DEPARTMENT OF MINERAL RESOURCES

**AS WITNESSES:**

- 1. ....
- 2. *P. W. ...*



*DM*



**FORZANDO COAL MINES (PTY) LTD**

Licence No. 10/2000  
 Magisterial District : Bethal  
 Mining District : WITBANK  
 Regulation 2 (2) Plan  
**PLAN 1**

**MINING RIGHT CONVERSION PLAN**

**LEGEND**  

 Forzando M.R. Conversion Area (North)  
 Forzando Extension M.R. Areas (South)

- Main Roads
- Secondary Roads
- Other Roads
- Railway line
- Surface contours
- Rivers
- Dams and pans
- Powerline
- Boxcut
- Conveyor
- Farm Boundary
- Forzando Coal Reserves



SCALE 1 : 60 000  
 SYSTEM OF SURVEY LO 29

MARCH 2008

The figure AREA 1 lettered A-M1 represents a mining area comprising portions of the farms Halfgewonnen 190IS, Geluk 226IS, Bankpan 225IS, Weltevreden 193IS, Koppie 228IS, respectively; situated in the Magisterial District of Bethal for which Forzando Coal Mines (Pty) Ltd. has applied for a conversion of Mining Right in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002).

Director/Surveyor/Manager  
 f.a.b.o. Forzando Coal Mines (Pty) Ltd (Applicant)

Director: Mineral Development  
 Mpumalanga Region

Date 25 / 11 / 2008

Date

f.a.b.o. For and Behalf of





## water affairs

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA

LICENCE NO: 04/B11A/A/ACGIJ/521  
FILE NUMBER: 16/7/B100/C252

Private Bag X313, Pretoria, 0001 Sedibeng Building, 185 Schoeman Street, Pretoria, Tel:  
(012) 336-7500, Fax: (012) 323-4472 / (012) 326-2715

### LICENCE IN TERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT, 1998 (ACT NO 36 OF 1998) (THE ACT)

I, **Trevor Balzer**, in my capacity as Acting Director General: in the Department of Water Affairs and acting under authority of the powers delegated to me by the Minister of Water Affairs and, hereby authorize the following water uses in respect of this license.

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

LICENCE NO: 04/B11A/A/ACGIJ/521  
FILE NUMBER: 16/7/B100/C252

1. **Water User:**

**Postal Address of  
applicant:**

**Total Coal SA (Pty) Ltd  
P.O. Box 2344  
SAXONWORLD  
2132**

2. **Water uses**

- |     |                           |  |
|-----|---------------------------|--|
| 2.1 | Section 21(b) of the Act: | Storing of water, subject to the conditions set out in Appendices I and II.  |
| 2.2 | Section 21(c) of the Act: | Impeding or diverting the flow of water in a watercourse, subject to the conditions set out in Appendices I and III.                             |
| 2.3 | Section 21(g) of the Act: | Disposing of waste in a manner which may detrimentally impact on a water resource, subject to the conditions as set out in Appendices I and VII. |
| 2.5 | Section 21(i) of the Act: | Altering the bed, banks course or characteristics of a watercourse, subject to the conditions set out in Appendix I and III.                     |
| 2.6 | Section 21(j) of the Act: | Removing, discharging or disposing of water found underground, subject to the conditions set out in Appendices I and VIII.                       |

**B 03027**

**3. Properties on which the use will be exercised**

- 3.1 Section 21(b) of the Act: Koppie 228 IS Remaining Extent
- 3.3 Section 21(c) of the Act: Koppie 228 IS Remaining Extent
- 3.4 Section 21(g) of the Act: Koppie 228 IS Remaining Extent
- 3.5 Section 21(i) of the Act: Koppie 228 IS Remaining Extent
- 3.6 Section 21(j) of the Act: Koppie 228 IS Remaining Extent

**4. Registered owners of the Properties**

- 4.1 Total Coal SA (Pty) Ltd

**5. Licence and Review Period**

This licence is valid for a period of ten (10) years from the date of issuance and as provided for under Section 49 of the Act, it will be reviewed every two (2) years.

**6. Definitions**

Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence.

"The Act" means the National Water Act, 1998 (Act 36 of 1998).

"The Department" means the Department of Water Affairs.

"The Regional head" means the Regional head: Mpumalanga, Department of Water Affairs, Private Bag X11259, NELSPRUIT, 1200.

"Report" refers to the report entitled Integrated Water Use Licence Application on Total Coal South Africa Pty (Ltd) Forzando South Colliery on Koppie 228 IS Remaining Extent dated November 2007 for section 21(b),(c),(g),(i) and (j) water use licence as well as all other related documentations and communication (emails, letters, verbal, etc) related thereto.

"Report" also refers to the report entitled IWWP dated November 2007 for Forzando South Colliery report number 06.339 as compiled by GCS.

"Report" also refers to the reports entitled Response to the Department of Water Affairs in terms of section 40 of the National Water Act, 1998 (Act 36 of 1998) for the submitted water use licence dated 27 October 2009 and 01 June 2010.

**7. Description of Activity**

This licence authorizes Total Coal South Africa (Pty) Ltd Forzando South Colliery to undertake Section 21(b) storing of water into Erikson Dam 3, Impending, Diverting and Altering the flow of a Watercourse in terms of Section 21 (c ) and (i ),Removing of water found underground for safety of people in terms of Section

LICENCE NO: 04/B11A/A/ACGIJ/521  
FILE NUMBER: 16/7/B100/C252

(j) and disposal of waste into five (5) Pollution Control Dam in terms of Section 21(g) of the Act, for mining operations.



## APPENDIX I

### Conditions for all water uses

1. The responsibility for complying with the provisions of the licence is vested in the licensee and not any other person or body.
2. This licence is subject to all the provisions contained in the National Water Act.
3. The licence shall not be construed as exempting the licensee from compliance with the provisions of the National Environment Management Act, 1998 (Act 107 of 1998), the Health Act, 2003 (Act 61 of 2003), the Environment Conservation Act, 1989 (Act 73 of 1989), the Occupational Health and Safety Act, 1993 (Act 85 of 1993) or any other applicable Act, Ordinance, Regulation or By-law.
4. The licensee shall immediately inform the Regional Head of any change of name, address, premises and/or legal status.
5. This licence and any amendment to this license are also subject to all the applicable procedural requirements and other applicable provisions of the Act, as amended from time to time..
6. If the property mentioned in Clause 3 above is subdivided, sold or consolidated, the owner(s) of the new property (ies) must enter into a written mutual agreement and notify this Department or the responsible authority within 60 days after the said transaction took place.
7. If a water user association is established in the area to manage the resource, membership of the licensee to this association is compulsory and rules, regulations and water management stipulations of the association must be adhered to.
8. The licensee shall be responsible for any water use charges or levies imposed from time to time by a responsible authority or Department in terms of the Raw Water Pricing Strategy, Waste Discharge Charges, Water Resource Management Charge of the Department, or any other water charge or levies that might be imposed in terms of the appropriate legislation.
9. The licensee shall conduct an annual internal audit on compliance with the conditions of this licence. A report on the audit shall be submitted to the Regional Head within one month of the finalisation of the audit.
10. The licensee must classify the aquifer system according to A South African Aquifer System to the Regional Head; the submission of the report should be



done within a year after issuance of the licence. Management Classification` (WRC, report KV77/95, R Parsons). A detailed groundwater study must be undertaken to determine and understand the complexities of a local and regional groundwater balance and address the conceptual groundwater model of the area. Geo-referenced map depicting the positions of all identified boreholes and physical structures; groundwater piezometric contour map showing flow direction and depth of the water level. Contour map must form part of the groundwater report.

## APPENDIX II

### Section 21 (b) of the Act: Storing of water

#### 1. STORING OF WATER

- 1.1 The licensee is authorized to store a maximum quantity of eighteen thousand six hundred and fifteen cubic meters (18 615 m<sup>3</sup>) at the Erikson dam 3 on the Farm Koppie 228 IS Remaining extent.
- 1.2 The licensee must obtain any proprietary rights or servitudes at their own cost.
- 1.3 The licensee is not exempted from compliance with any applicable Dam Safety Regulation.

#### 2. Monitoring Requirements

- 2.1 The licensee is not indemnified from any detrimental effect that the dam(s) may have on other properties. The Department does not accept any responsibility or liability for any damages or losses that may be suffered by any other party as a result of the construction and utilization of the dams.
- 2.2 Suitable measuring structure must be constructed upstream and downstream of the dams to measure the flow entering and leaving the dams and this information must be available on request.
- 2.3 The licensee shall establish a monitoring programme and the date and time of monitoring in respect of each sample taken shall be recorded together with the results of the analysis as well as other significant information (low flow, flooding, pollution incident, etc)
- 2.4 The quantity of water stored shall be recorded as the last day of each month.

#### 3. Dam Safety Requirements

- 3.1 The operation and maintenance of all dam facilities classified as a dam with a safety risk, must be carried out under supervision of a professional Civil Engineer, registered under the Engineering Profession of South Africa Act, 1990 (Act 114 of 1990)
- 3.2 All storage facilities (for water not containing waste) with a safety risk will comply with the control measures.
- 3.3 The licensee shall supply any information, drawings, specifications, designs assumptions, calculations, documents and test result when requested by the Regional Head.

- 3.4 An approved professional person must be appointed to carry out a dam safety evaluation annually and must:
  - 3.4.1 Consider whether the safety norms pertaining to the design, monitoring, operation, performance and maintenance of the satisfied acceptable dam engineering practices.
  - 3.4.2 Compile a report on matters contemplated above according to the prescribed requirements and submits the signed and dated report to the owner of the dam within the prescribed period.
- 3.5 The licensee is not exempted from compliance with the provisions of the Regulations published under Government Notice R1560 of July 1986, read with Chapter 12 of the Act

### APPENDIX III

**Section 21 (c) of the Act: Impeding or diverting the flow of water in a Watercourse**

**Section 21 (i) of the Act: Altering the bed, banks, course or characteristic of a watercourse**

#### 1. OPERATION AND MAINTENANCE

- 1.1 The licence authorises the section 21 (c) and (i) water use activities as set out below and in the water use application reports submitted to the Department.
  - 1.1.1 Impeding the flow in an unnamed tributary of the Olifants River with a culvert structure and altering the beds and banks of the tributary of the Olifants River should take place at the following location 26° 15' 32.0" S and 29° 31' 46.5" E.
  - 1.1.2 Impeding the flow in a Viskulie River with a culvert structure altering the beds and banks of the Viskulie River (S4 culvert – crossing) should take place at the following location 26° 15' 31.0" S and 29° 31' 46.0" E.
  - 1.1.3 Impeding the flow in a watercourse with a culvert structure and altering the beds and banks of the Viskulie River (S5 culvert – crossing) should take place at the following location 26° 15' 20.0" S and 29° 31' 46.0" E.
- 1.2 The licensee shall carry out and complete all activities listed under condition 1.1 according to the following Report.
  - 1.2.1. IWULA, Application on Total Coal South Africa Koppie 228 IS Remaining Extent dated November 2007 for Forzando South Colliery and IWWMP dated November 2007 as compiled by GCS.
- 1.3 The licensee must submit a set of as-built drawings (not schematic layouts) to the Regional head of all river diversions, road crossings and weirs.
- 1.4 The conditions of the authorisation shall be brought to the attention of all persons (employees, sub-consultants, contractors etc.) associated with the undertaking of this activity and the applicant shall take such measures that are necessary to bind such persons to the conditions of this licence.
- 1.5 The necessary erosion prevention mechanisms shall be employed to ensure the sustainability of all structures.
- 1.6 The licensee must ensure that structures such as the river diversions, river road crossings, weirs and the culverts shall not be damaged excessively by floods exceeding the magnitude of floods occurring on average once in every 100 years.



- 1.7 The structure of temporary crossings must be non-erosive, structurally stable and must not induce any flooding or safety hazard. Temporary crossings must be inspected regularly for accumulation of debris, blockage, erosion of abutments and overflow areas. Debris must be removed and damages must be repaired and reinforced immediately.
- 1.8 Any hazardous substances must be handled according to the relevant legislation relating to transport, storage and use of the substance.
- 1.9 Pollutions caused by spills from the conveyances must be prevented through proper maintenance and effective protective measures especially near all stream crossings.
- 1.10 Any access roads or temporary crossings should be:
  - 1.10.1 non-erosive, structurally stable and should not induce any flooding or safety hazard
  - 1.10.2 any damage must be repaired immediately to prevent further damage.
- 1.11 The licensee must conduct an audit to check the condition in change of the water course.
- 1.12 The design of the culvert however needs to take into account the 1:50 year flood to ensure that there is protection on the structures.
- 1.13 Taking into account the submitted design information provided by the applicant on the culvert, it is recommended that the maintenance of the works proceed with an Environmental Control Officer and Professional Civil Engineer appointed to oversee the works.

## **2. STORMWATER MANAGEMENT**

- 2.1 Stormwater shall be diverted from the construction works and roads and shall be managed in such a manner as to disperse runoff and to prevent the concentration of stormwater flow.
- 2.2 Where necessary works must be constructed to attenuate the velocity of the stormwater discharge and to protect the banks of the watercourse.
- 2.3 Stormwater control works must be constructed, operated and maintained in a sustainable manner throughout the project.
- 2.4 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that stormwater does not lead to bank instability and excessive levels of silt entering the watercourse.
- 2.5 Stormwater leaving the licensee's premises must in no way be contaminated by any substance, whether such substance is a solid,

liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped or spilled on the premises.

### 3. WATER QUALITY

- 3.1 The in-stream water quality must be analysed on weekly basis during the construction of the activities of the river diversion, at the monitoring points for both upstream and downstream of the activities for the river diversion for the following variables: pH, Electrical conductivity (ms/m), suspended solids (mg/l), and total dissolved solids (mg/l). Monitoring shall continue on monthly basis for three months after the cessation of the activities.
- 3.2 Activities (such as maintenance) that lead to elevated levels of turbidity of any watercourse must be minimised.
- 3.3 The licensee shall ensure that the quantity of the water to downstream water users does not decrease because of the existence of the river diversions, river crossings, culverts and associated maintenance of road crossings.
- 3.4 As far as possible, all new road crossing of wetlands should cross the wetland at 90° to the direction of flow.
- 3.5 The original wetland geometry and topography in both cross-sectional and longitudinal profile altered during construction of a road crossing must be reinstated at closure.
  - 3.5.1 Seepage water from the cut -off trench behind the pollution dams must be pumped back into the dams.

### 4. GENERAL SPECIFICATIONS

- 4.1 A suitably qualified person, appointed by the licensee, and approved, in writing, by the Regional head, must be responsible for ensuring that the structures are maintained in line with the design specifications.
- 4.3 The licensee must ensure that river diversions, river road crossings, weirs and the culverts shall not be damaged excessively by floods exceeding the magnitude of floods occurring on average once in every 100 years.
- 4.4 Development activities should start upstream and work downstream, so that the recovery process can start immediately, without further disturbance from upstream disturbances.
- 4.5 The necessary erosion prevention mechanisms shall be employed to ensure the sustainability of all the structures.
- 4.6 Where temporary crossings are included their structure must be non-erosive, structurally stable and may not induce any flooding or safety hazard. Temporary crossings must be inspected regularly for accumulation

of debris, blockage, erosion of abutments and overflow areas. Damaged areas shall be repaired and reinforced immediately.

- 4.7 The licensee must submit a set of as-built detailed drawings (not schematic layouts) to the Regional head of all river diversions, road crossings, and weirs, when required.
- 4.8 The licensee shall deliver proof to the Regional head of compliance with the following, when required:
- 4.9 The licensee must ensure the placement of advertisements of the alteration activities in local newspapers and one regional newspaper as required by the M1.0 Operational Guideline for the control over the alteration of a watercourse.

## 5. PROTECTIVE MEASURES

- 5.1 The diversion structures may not restrict river flows by reducing the overall river width or obstructing river flow.
- 5.2 Operation and storage of equipment within the riparian zone must be limited as far as possible.
- 5.3 All activities within the riparian zone should be restricted as far as possible.
- 5.4 Any material removed from the in stream or riparian habitat, may not be stored within the riparian zone, and may not be stored in such a way that will cause damming of water or wash-away.
- 5.5 Alien vegetation must not be allowed to further colonise the area, and all new alien vegetation recruitment must be eradicated or controlled, using standard methods approved by the Department.
- 5.5 Soils that have become compacted through the activities of the development must be loosened to an appropriate depth to allow seed germination.
- 5.6 The proposed development must not impede the upstream movement of fish.
- 5.7 Increased runoff due to vegetation clearance and/or soil compaction must be managed and steps must be taken to ensure that stormwater does not lead to bank instability and excessive levels of silt entering the stream.
- 5.8 Riparian vegetation, including dead trees, may not be removed from the area. In particular, snags (fallen trees and branches) in the river must be protected (i.e. not collected for firewood or any other purpose).
- 5.9 All reasonable steps should be made to minimise noise and mechanical vibrations in the vicinity of the river.

## **6. REHABILITATION**

- 6.1 All disturbed areas must be re-vegetated with an indigenous seed mix in consultation with an indigenous plant expert, ensuring that during rehabilitation only indigenous shrubs, trees and grasses are used in restoring the biodiversity.
- 6.2 The vegetation of the surrounding catchment should also be managed to prevent erosion and siltation of the water course.
- 6.3 The licensee shall take steps necessary to allow movement of aquatic species, including migratory species during the rehabilitation programme.
- 6.4 The licensee shall embark on a systematic long-term rehabilitation programme to restore natural watercourses to environmentally acceptable and sustainable conditions after construction, which shall include, but not be limited to:
  - 6.4.1 The rehabilitation of disturbed and degraded riparian areas to restore and upgrade the riparian habitat integrity to sustain a bio-diverse riparian ecosystem; and
  - 6.4.2 Annually assess the habitat to monitor the sustainability of the diversions and compliance with these conditions. Action must be taken to rectify any negative impacts.
- 6.5 The licensee shall ensure that the volume of flow is not reduced except for natural evaporative losses and the authorised attenuation volumes.

## **7. GENERAL SURFACE WATER DESIGN REQUIREMENTS AND CRITERIA**

- 7.1 The licensee shall clearly indicate all wetlands boundaries within the project area on layout plans.
- 7.2 The licensee shall do bio-monitoring to determine the impact, change, deterioration and improvement of the aquatic system associated with the activities that of impeding, altering or diverting the water resource.

**APPENDIX IV**

**Section 21 (g) of the Act: Disposing of waste in a manner which may detrimentally impact on a water resource**

**1. MAINTANANCE AND OPERATION**

1.1 The licensee shall carry out and complete all the activities, including the construction and operation of the facilities listed below in Table 1, according to the Report and according to the final plans submitted with the Integrated Water Use Licence Application as approved by the Regional head.

**Table 1: Geographical positions of all the waste water management facilities**

Facility	Farm Name	Geographic Position
Pollution Control Dam 1	Koppie 228 IS Remaining Extent	26° 17' 22.80" S 29° 31' 59.56" E
Pollution Control Dam 2	Koppie 228 IS Remaining Extent	26° 17' 13.19" S 29° 31' 43.34" E
Pollution Control Dam 3	Koppie 228 IS Remaining Extent	26° 17' 17.67" S 29° 31' 47.95" E
Erikson dam 1	Koppie 228 IS Remaining Extent	26° 17' 15.19" S 29° 31' 46.56" E
Erikson dam 2	Koppie 228 IS Remaining Extent	26° 17' 14.52" S 29° 31' 45.81" E
Using water for dust suppression	Koppie 228 IS Remaining Extent	N/A

1.2 The lining of the dams listed in Table1 must be carried out under the supervision of a professional Civil Engineer, registered under the Engineering Profession of South Africa Act, 1990 (Act 114 of 1990), as approved by the designer.

1.3 Within 30 days after the completion of the activities referred here in accordance with the relevant provisions of this licence, the licensee shall in writing, under reference 16/2/7/B100/C252, inform the Regional Head thereof. This shall be accompanied by a signature of approval from the designer referred to above that the lining was done according to the design plans referred to in the Report.

- 1.4 The licensee must ensure that the disposal of the waste water and the operation and maintenance of the system are done according to the provisions in the Report.
- 1.5 The licensee shall as well submit a set of as-built drawings to the Regional Head after the completion of the waste facilities listed in table 1.
- 1.6 The waste facilities listed in Table 1 shall be operated and maintained to have a minimum freeboard of 0.8 metres above full supply level and all other water systems related thereto shall be operated in such a manner that it is at all times capable of handling the 1:50 year flood-event on top of its mean operating level.
- 1.7 The licensee shall use acknowledged methods for sampling and the date, time and sampler must be indicated for each sample.
- 1.8 Flow metering devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than once in two years. Calibration certificates shall be available for inspection by the Regional Head or his representative upon request.

## 2. STORAGE OF WATER CONTAINING WASTE

- 2.1 The licensee is authorised to dispose of a maximum quantity in cubic meters (m<sup>3</sup>) of waste water per month into the waste management facility on the farm described below in Table 2.

**Table 2 Volumes of waste to be disposed at the waste disposal facilities**

Facility	Volume in Cubic Metres per annum	Waste Description	Property Name
Pollution Control Dam 1	1264 m <sup>3</sup>	Contains water pumped from underground and sewage effluent	Koppie 228 IS Remaining Extent
Pollution Control Dam 2	5 m <sup>3</sup>	Contains dirty water if pollution control dam 1 lacks capacity	Koppie 228 IS Remaining Extent
Pollution Control Dam 3	65 m <sup>3</sup>	Contains runoff from the stock pile area and waste sorting area	Koppie 228 IS Remaining Extent
Erickson dam 1	2 m <sup>3</sup>	Assist pollution control dam 2 if it lacks capacity	Koppie 228 IS Remaining Extent
Erickson dam 2	2 m <sup>3</sup>	Assist pollution control dam 2 if it lacks capacity	Koppie 228 IS

### 3. QUALITY OF WASTE WATER TO BE DISPOSED

3.1 The quality of waste water disposed of into the dams specified above shall not exceed the following limits as specified in Table 3 in an event the dams are not lined.

**Table 3: Quality of waste water to be disposed into waste water facility**

Substance/Parameter	Limits
pH	8.1
Electrical conductivity (Ec) in Ms/m	65.9
Total Dissolved solids (TDS) in mg/l	350
Chlorides (Cl) in mg/l	35
Sulphates (SO <sub>4</sub> ) in mg/l	120
Sodium (Na) in mg/l	65.1
Potassium in mg/l	9.10
Manganese in mg/l	0.03
Fluoride in mg/l	20.2
Calcium in mg/l	2.3
Iron (Fe) in mg/l	0.7

### 4. MONITORING

4.1 The licensee shall on monthly basis monitor water resources at Surface water monitoring point and on quarterly basis do Ground water monitoring point to determine the impact of the facility and other activities on the water quality by taking samples at the monitoring points described in Tables 4 and 5 below:

**Table 4: Surface Water monitoring points for Forzando South Colliery**

Locality	Description	X co-ordinate	Y co-ordinate
FNSSW01	Upstream from the box cut in Vuskuile spruit	26.328073	29.558239
FNSSW02	Upstream from the box cut in Vuskuile spruit-eastern tributary	26.324478	29.561690
FNSSW03	Upstream from the box cut area in joubert Spruit western tributary	26.302636	29.497426
FNSSW04	Upstream from the box cut area in Joubertsvlei spruit.	26.302008	29.501800
FNSSW04	Downstream in Vuskuile spruit	26.277710	29.508771

**Table 5: Ground Water monitoring points for Forzando South Colliery**

Locality	Description	X co-ordinate	Y co-ordinate
F661	N/A		29.30131
F662	N/A	-26.2312	29.30127
F666	N/A	-26.23009	29.29725
F670	N/A	-26.21934	29.29695

- 4.2 The date, time and monitoring point in respect of each sample taken shall be recorded together with the results of the analysis.
- 4.3 Water quality tests to be performed on the monitoring boreholes on a quarterly basis in order to determine the risks to the receiving environment. The data gathered in the investigation must be reported annually to the Regional Head. If any high water quality levels as specified is exceeded, the licensee must institute an investigation to determine the cause of pollution.
- 4.4 Monitoring points shall not be changed prior to notification to and written approval by the Regional Head.
- 4.5 An Aquatic Scientist approved by the Regional Head must establish a monitoring programme for the following indices: Invertebrate Habitat Assessment System (IHAS) and the latest SASS (South African Scoring System). Sampling must be done once during the summer season and once during the winter season, annually, to reflect the status of the river upstream and downstream of the mining activities.
- 4.6 Analysis shall be carried out in accordance with methods prescribed by and obtainable from the South African Bureau of Standards (SABS), in terms of the Standards Act, 1982 (Act 30 of 1982).
- 4.7 The methods of analysis shall not be changed without prior notification to and written approval by the Minister.
- 4.8 Water quality testing to be performed on the Pollution Control Dams to be done on a quarterly basis in order to determine the risks to the receiving environment. The data gathered in the investigation must be reported annually to the Regional Head.

## **5. WATER RESOURCE PROTECTION**

- 5.1 The impact of the activities of the mine on the ground water shall not exceed the water quality limits detailed as indicated on the Table 6 below.



**Table 6: Water resource quality Limits**

Variable	Water Quality Limits
pH	5.0 – 9.5
Total Dissolved Solids	462
Sulphate (SO <sub>4</sub> )	152
Chloride (Cl)	23
Sodium (Na)	36
Magnesium (Mg)	24
Potassium (k)	6.5
Calcium (Ca)	45

## 6. REPORTING

6.1 The licensee shall at all times maintain the negative water balance, during the mining operation and after the mining operation.

6.2 The licensee shall update the water balance annually and calculate the loads of waste emanating from the activities. The licensee shall determine the contribution of their activities to the mass balance for the water resource and must furthermore co-operate with other water users in the catchment to determine the mass balance for the water resource reserve compliance point.

6.3 The licensee shall submit the results of analysis for the monitoring requirements to the Regional Head on a quarterly basis under Reference number 16/2/7/B100/C252.

6.4 The licensee shall submit the nature and the quality of the waste disposed into the following dams.

- i Pollution Control Dam 1
- ii Pollution Control Dam 2
- iii Pollution Control Dam 3
- iv Erickson Dam 1
- v Erickson Dam 2

6.5 The licensee shall at all times ensure that Acid Mine Drainage is prevented and minimised during the operation and after operation of the mine

## 7. STORM WATER MANAGEMENT

7.1 Stormwater leaving the licensee's premises shall in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped or spilled on the premises.

- 7.2 Increase runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the stream.
- 7.3 Storm-water shall be diverted from the mine complex site and roads and shall be managed in such a manner as to disperse runoff and concentrating the storm-water flow.
- 7.4 Where necessary works must be constructed to attenuate the velocity of any storm-water discharge and to protect the banks of the affected watercourses.
- 7.5 Storm-water control works must be constructed, operated and maintained in a sustainable manner throughout the impacted area.
- 7.6 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm-water does not lead to bank instability and excessive levels of silt entering the streams.
- 7.7 All storm-water that would naturally run across the pollution areas shall be diverted via channels and trapezoidal drains designed to contain the 1:50 year flood.
- 7.8 The polluted storm water system shall be designed and implemented to provide suitable routing and pumping capacity for contaminated storm water from the individual facilities to the respective storm water dams in accordance with the design specifications as contained in the Integrated Water Use License Application report.
- 7.9 The polluted storm water captured in the storm water control dams shall be re-used and recycled.

## **8. PLANT AREAS AND CONVEYANCES**

- 8.1 Pollution caused by spills from the conveyances must be prevented through proper maintenance and effective protective measures especially near all stream crossings.
- 8.2 All reagent storage tanks and reaction units must be supplied with a bunded area built to the capacity of the facility and provided with sumps and pumps to return the spilled material back into the system. The system shall be maintained in a state of good repair and standby pumps must be provided.
- 8.3 Any hazardous substances must be handled according to the relevant legislation relating to the transport, storage and use of the substance.
- 8.4 Any access roads or temporary crossings must be:

8.4.1 Non-erosive, structurally stable and shall not induce any flooding or safety hazard and

8.4.2 Be repaired immediately to prevent further damage.

## 9. ACCESS CONTROL

9.1 Strict access procedures must be followed in order to gain access to the property.

Access to the pollution control dams and Coal slurry discard dumps, must be limited to authorised employees of the licensee and their Contractors only.

9.2 Notices prohibiting unauthorised persons from entering the controlled access areas as well as internationally acceptable signs indicating the risks involved in case of an unauthorised entry must be displayed along the boundary fence of these areas.

## 10. CONTINGENCIES

10.1 Accurate and up-to-date records shall be kept of all system malfunctions resulting in non-compliance with the requirements of this licence. The records shall be available for inspection by the Regional Head upon request. Such malfunctions shall be tabulated under the following headings with a full explanation of all the contributory circumstances:

10.1.1 operating errors

10.1.2 mechanical failures (including design, installation or maintenance)

10.1.3 environmental factors (e.g. flood)

10.1.4 loss of supply services (e.g. power failure) and

10.1.5 Other causes.

10.2 The licensee must, within 24 hours, notify the Regional Head of the occurrence or potential occurrence of any incident which has the potential to cause, or has caused water pollution, pollution of the environment, health risks or which is a contravention of the licence conditions.

10.3 The licensee must, within 14 days, or a shorter period of time, as specified by the Regional head, from the occurrence or detection of any incident referred above, submit an action plan, which must include a detailed time schedule, to the satisfaction of the Regional head of measures taken to:

10.3.1 correct the impacts resulting from the incident

10.3.2 prevent the incident from causing any further impacts and

10.3.3 prevent a recurrence of a similar incident.

10.3.4

## 11. AUDITING

- 11.1 The licensee shall conduct an annual internal audit on compliance with the conditions of this licence. A report on the audit shall be submitted to the Regional Head within one month of finalisation of the report, and shall be made available to an external auditor should the need arise.
- 11.2 The licensee shall appoint an independent external auditor to conduct an annual audit on compliance with the conditions of this licence. The first audit must be conducted within 3 (three) months of the date this license was issued and a report on the audit shall be submitted to the Regional head within one month of finalisation of the report.

## 12. INTEGRATED WATER AND WASTE MANAGEMENT

- 12.1 The licensee must update an *Integrated Water and Waste Management Plan (IWWMP)*, which must together with the *Rehabilitation Strategy and Implementation Programme (RSIP)*, be submitted to the Regional Head for approval within one (1) year from the date of issuance of this licence.
- 12.2 The IWWMP and RSIP shall thereafter be updated and submitted to the Regional Head for approval, annually.
- 12.3 The licensee must, at least 180 days prior to the intended closure of any facility, or any portion thereof, notify the Regional Head of such intention and submit any final amendments to the IWWMP and RSIP as well as a final *Closure Plan*, for approval.
- 12.4 The licensee shall make full financial provision for all investigations, operation and maintenance for a water treatment plant should it become a requirement as a long-term water management strategy.

## 13. GENERAL CONDITIONS

- 13.1 Water samples must be taken from all the monitoring boreholes by using approved sampling techniques and adhering to recognized sampling procedures. Samples should be analyzed for both organic as well as inorganic pollutants, as mining activity often lead to hydrocarbon spills in the form of diesel and oil. At least the following water quality parameters should be analyzed for:
- Major ions (Ca, K, Mg, Na, SO<sub>4</sub>, NO<sub>3</sub>, Cl, F)
  - pH
  - Electrical Conductivity (EC)

These should be recorded on a data sheet. It is proposed that the data should be entered into an appropriate computer database and reported to the Department of Water Affairs.

- 13.2 A safety pillar of at least 30 m should be left between the underground and opencast areas.

- 13.3 Quarterly groundwater sampling must be done to establish a database of plume movement trends, to aid eventual mine closure.
- 13.4 The pollution control dam must be designed in such a manner that any spillage can be contained and reclaimed without any impact on the surrounding environment, a plan must be in place to stop overflowing in a dam in case of rainy seasons.

## APPENDIX V

### Section 21 (j) of the Act: Removing of water found underground

1. The licensee is authorised to remove a volume not exceeding four hundred and fifty five thousand one hundred and fifty five cubic metres ( 455 155 m<sup>3</sup>) of groundwater from Forzando South Colliery Koppie 228 IS Remaining Extent, based on an average quantity of one thousand two hundred and forty seven (1247 m<sup>3</sup>) m<sup>3</sup> per day.
2. The licensee is authorised to dispose of the groundwater into the Pollution Control dam 1 on the farm Koppie 228 IS Remaining Extent.
3. The disposal of water into the pollution control dam shall take place at the following location:

Location	X co-ordinate	Y co-ordinate
Pollution control dam 1	26° 17' 22.8670"	29° 31' 51.769"

4. The quantity of the water authorised to be removed and disposed of into the pollution control dam in terms of this license may not be exceeded without prior authorisation by the Minister.
5. The quality of the water disposed into the pollution control dam shall not exceed the quality as specified in the Table 3 Appendix iv above.
6. The licensee shall provide any water user whose water supply is impacted by the water use with potable water.
7. The quantity of water removed from underground must be metered and recorded on a daily basis.
8. The groundwater levels shall be monitored every six months (once in the beginning of the dry season and once in the beginning of the wet season).
9. Self registering flow meters must be installed in the delivery lines at easily accessible positions near the dewatering points.
10. The flow metering devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than once in two years. Calibration certificates shall be available for inspection by the Regional Head or his/her representative upon request.
11. Calibration certificates in respect of the pumps must be submitted to the Regional Head after installation thereof and thereafter at intervals of two years.
12. The date and time of monitoring in respect of each sample taken shall be recorded together with the results of the analysis.

13. Analysis shall be carried out in accordance with methods prescribed by and obtainable from the South African Bureau of Standards, in terms of the Standards Act, 1982 (Act 30 of 1982).
14. The methods of analysis shall not be changed without prior notification to the licensee and written approval by the Minister or his/her delegated nominee.
15. The Regional Head must be informed of any incident that may lead to groundwater being disposed of contrary to the provisions of this license, by submitting a report containing the following information: -
  - 15.1 nature of the incident (e.g. operating malfunctions, mechanical failures, environmental factors, loss of supply services, etc)
  - 15.2 actions taken to rectify the situation and to prevent pollution or any other damage to the environment and
  - 15.3 measures to be taken to prevent re-occurrence of any similar incident.
16. The licensee shall follow acceptable construction, maintenance and operational practices to ensure the consistent, effective and safe performance of the groundwater removal system.
17. Reasonable measures must be taken to provide for mechanical, electrical or operational failures and malfunctions of the underground water removal system.

**END OF LICENCE**







## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

Private Bag X313, Pretoria, 0001, Sedibeng Building, 185 Francis Baard Street, Pretoria  
Tel: (012) 336-6817 Fax: (012) 326-4472/ (012) 326-2715

### AMENDMENT LICENCE IN TERMS OF SECTION 50 AND 158 OF THE NATIONAL WATER ACT, 1998 (ACT NO 36 OF 1998)

I, **Dan Mashitsho**, in my capacity as Director-General in the Department of Water and Sanitation: and acting under authority of the powers delegated to me by the Minister of Water and Sanitation, hereby authorises the amendment of licence **04/B11A/A/ACGIJ/521** dated 19 July 2011.

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

15/06/2017

The above mentioned licence is amended as follows:

#### Amendment of the definition Department

1. The definition of Department is hereby amended-
  - a. by substitution the definition for "Department" of the following definition:  
"The Department" means the Department of Water **[Affairs]** and Sanitation.

#### Amendment of the definition Regional Head

2. The definition of Regional Head is hereby amended-
  - a. by substitution the definition for "Regional Head" of the following definition:  
["**Regional Head**"] "**Provincial Head**" means the **[Regional Chief Director] Head of Provincial Operations: Mpumalanga, Department of Water [Affairs] and Sanitation, Private Bag X 11259, Nelspruit, 1200.**"

#### Amendment of the Licensee

3. The Licensee is hereby amended-
  - a. by substitution the name for Licensee of the following name:  
"**[Total Coal South Africa (Pty) Ltd – Forzando South Coal Mining Operation]**  
**Exxaro Coal Central (Pty) Ltd – Forzando South Coal Mining Operation**"

**B 07875**

**Amendment of licence**

4. Licence is hereby amended by adding condition 1.1.4 and in condition 1.1 of Appendix III

**Exemption from Regulation 4 (b)**

Exxaro Coal Central (Pty) Ltd – Forzando South Coal Mining Operation is exempted in terms of Regulation 3 of the Government Notice NO. 704 as published in the Government Gazette for undermining of rivers as detailed in table1. ....

**Table 1: Undermining of activities**

<b>Undermining of River</b>	<b>Coordinates</b>
Undermining of a tributary of the Joubertsveispruit	Start of undermining 26° 13' 55" S; 29° 28' 49" E End of undermining 26° 18' 31.8" S; 29° 29' 16.5" E
Undermining 1 of Boltons pan	Start of undermining 26° 18' 09.4" S; 29° 30' 45.1" E End of undermining 26° 17' 48" S; 29° 30' 00.2" E
Undermining of Unnamed pan	Start of undermining 26° 18' 07.5" S; 29° 32' 00.1" E End of undermining 26° 18' 10.8" S; 29° 32' 05.7" E
Undermining of second unnamed pan	Start of undermining 26° 19' 16.9" S; 29° 30' 57.8" E End of undermining 26° 19' 26.6.8" S; 29° 30' 55.6" E
Undermining of third unnamed pan	Start of undermining 26° 18' 46" S; 29° 31' 09.5" E End of undermining 26° 19' 02.0" S; 29° 31' 06.1" E
Undermining of the Viskulle Spruit	Start of undermining 26° 17' 26" S; 29° 15' 28.7" E End of undermining 26° 17' 05.2" S; 29° 31' 24.2" E
Undermining of Diepsloot Spruit	Start of undermining 26° 18' 37.8" S; 29° 31' 47.9" E End of undermining 26° 17' 29.8" S; 29° 31' 47.9" E
Undermining of the Joubertsveispruit	Start of undermining 26° 19' 12.5" S; 29° 30' 07.4" E End of undermining 26° 18' 55.8" S; 29° 30' 03.5" E

5. Licence is hereby amended by adding condition 1.1.5 for undermining of a River in condition 1.1 of Appendix III

- 1.1.5.1 Based on the mitigation measures as outlined in the Environmental Management Plan will be put in place to ensure that there will be little or no impact on groundwater.
- 1.1.5.2 Existing water body crossing must be used to transport supplies and machinery to the site.
- 1.1.5.3 No water must be abstracted from any water body without the appropriate water use licence
- 1.1.5.4 A contingency plan shall be compiled and sent to the Provincial Head for approval to address any impact that may occur on the watercourse during and after mining before commencement of the mining activity.
- 1.1.5.5 Mitigation measures shall be implemented in accordance with the Resource Protection and Waste Management Hierarchy (Pollution Prevention, Minimisation of impacts, Discharge or disposal of waste and/or wastewater to prevent any potential detrimental impact to the resource).

1.1.5.6 Continuous monitoring of stability and subsidence to be undertaken on surface and groundwater and pro/re-active measure to be taken to counteract subsidence and surface cracks.

**Amendment of condition 2 of Appendix IV**

6. Condition 2.1 of the licence is hereby amended-

a. by the substitution in condition 2.1 for Table 2 of the following Table:

**Table 2: Volume of waste to be disposed of at the waste disposal facility**

Facility	Volume in cubic metres per annum	Waste Description	Property Name
Pollution Control Dam 1	1 610 m <sup>3</sup> [1 264]	Contains water pumped from underground and sewerage effluent	Koppie 228 IS Remaining Extent
Pollution Control Dam 2	1700m <sup>3</sup> [5 m <sup>3</sup> /a]	Contains dirty water if pollution control dam 1 lacks capacity	Koppie 228 IS Remaining Extent
Pollution Control Dam 3	1200m <sup>3</sup> [65 m <sup>3</sup> /a]	Contains runoff from the stockpile area and waste sorting area	Koppie 228 IS Remaining Extent
Erickson Dam 1	660m <sup>3</sup> [2 m <sup>3</sup> /a]	Assist pollution control dam 2 if it lacks capacity	Koppie 228 IS Remaining Extent
Erickson Dam 2	660m <sup>3</sup> [2 m <sup>3</sup> /a]	Assist pollution control dam 2 if it lacks capacity	Koppie 228 IS Remaining Extent

**Amendment of condition 4.1 of Appendix IV**

7. Condition 4.1 of the licence is hereby amended-

a. by the substitution in condition 4.1 for Table 4 and Table 5 of the following Table:

**Table 4: Surface and Groundwater monitoring points for Forzando South Colliery**

Points	Latitude	Longitude	Groundwater	Monitoring Frequency	
				Levels	Sampling
FSGW3	-26.28695	29.52782	North west of pollution control dams	quarterly	Quarterly
FSGW4	-26.29106	29.53298	South east of pollution control dams		
Points	Latitude	Longitude	Surface Water	Monitoring Frequency	
FSSW1	-26.32802	29.55813	Viskuile River by R38 (upstream of site)	Monthly	
FSSW2	-26.32456	29.56104	Viskuile River by R38 (upstream of site)		
FSSW3	-26.30266	29.49747	Joubertvleispruit by dirt road off R35		
FSSW4	-26.30242	29.50141	Joubertvleispruit by dirt road off R35		
FSSW5	-26.27858	29.50839	Viskuile on the bridge		
FSSW6	-26.296573	29.52873	Tributary of the Viskuile river, stream flowing underneath the dirt road		
FSSW7	-26.29887	29.51355	Boltons' pan		
FSSW8	-26.29346	29.53528	Upstream of mining area		
FSSW9	-26.2902	29.53303	Pollution dam 1		
FSSW10	-26.28868	29.52979	Pollution dam 2		
FSSW11	-26.28785	29.52883	Pollution dam 3		
FSSW12	-26.28798	29.52927	Erikson Dam 1		
FSSW13	-26.28799	29.52928	Erikson Dam 2		

Points	Latitude	Longitude	Potable Water	Monitoring Frequency
FSSW15	-26.28689	29.53064	Potable water (Kitchen)	MONTHLY - Chemical and Bacteria
Points	Latitude	Longitude	Sewage Water	Monitoring Frequency
FSSW14	26.28930	29.53276	Sewage Outflow	QUARTERLY – chemical and bacteria MONTHLY - bacteria only

**Amendment of condition 3.1 of Appendix IV**

8. Condition 3.1 of the licence is hereby amended-
- a. by the substitution in condition 3.1 for Table 3 of the following Table

**Table 3:** Quality of wastewater to be disposed into a wastewater facility

Substance / Parameter	Limit
pH	6-9 [8.1]
Electrical Conductivity (Ec) in mS/m	150 [65.9]
Total Dissolved Solids (TDS) in mg/l	1200 [350]
Chlorides (Cl) in mg/l	90 [35]
Sulphates (SO <sub>4</sub> ) in mg/l	500 [120]
Sodium (Na) in mg/l	270 [65.1]
Potassium in mg/l	50 [9.10]
Manganese in mg/l	7.5 [0.03]
Flouride in mg/l	2.7[20.2]
Calcium in mg/l	75 [2.3]
Iron (Fe) in mg/l	2 [0.7]

**[END OF LICENCE AMENDMENT]**



water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

Received by: Lorenzo vld Heever  
Date: 27/6/2017  
Signature: [Handwritten Signature]

Private Bag X313, Pretoria, 0001, Sedibeng Building, 185 Francis Baard Street, Pretoria  
Tel: (012) 336-6817 Fax: (012) 326-4472/ (012) 326-2715

**AMENDMENT LICENCE IN TERMS OF SECTION 50 AND 158 OF THE  
NATIONAL WATER ACT, 1998 (ACT NO 36 OF 1998)**

I, **Dan Mashitsho**, in my capacity as Director-General in the Department of Water and Sanitation: and acting under authority of the powers delegated to me by the Minister of Water and Sanitation, hereby authorises the amendment of licence **04/B11A/A/ACGIJ/521** dated 19 July 2011.

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

The above mentioned licence is amended as follows:

**Amendment of the definition Department**

1. The definition of Department is hereby amended-
  - a. by substitution the definition for "Department" of the following definition:  
"The Department" means the Department of Water **[Affairs]** and Sanitation.

**Amendment of the definition Regional Head**

2. The definition of Regional Head is hereby amended-
  - a. by substitution the definition for "Regional Head" of the following definition:  
["**Regional Head**"] "Provincial Head" means the **[Regional Chief Director]** Head of Provincial Operations: Mpumalanga, Department of Water [Affairs] and Sanitation, Private Bag X 11259, Nelspruit, 1200."

**Amendment of the Licensee**

3. The Licensee is hereby amended-
  - a. by substitution the name for Licensee of the following name:  
"**[Total Coal South Africa (Pty) Ltd – Forzando South Coal Mining Operation]**  
Exxaro Coal Central (Pty) Ltd – Forzando South Coal Mining Operation"

**B 07875**



## **environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Ref. 12/9/11/ L180/6

Enquiries: Kelello Ntoampe

Tel: (012) 310-3920 Fax: (012) 320-3753 Email: [kntoampe@deat.gov.za](mailto:kntoampe@deat.gov.za)

[www.deat.gov.za](http://www.deat.gov.za)

**LICENSE NUMBER:** 12/9/11/ L180/6

**CLASS:** H:H

**WASTE DISPOSAL ACTIVITY:** FORZANDO SOUTH COLLIERY WASTE STORAGE FACILITY

**LOCATION:** KOPPIE 228 IS REMAINING EXTENT OF PORTION 0,  
MSUKALIGWA LOCAL MUNICIPALITY, MPUMALANGA  
PROVINCE.

**LICENSE HOLDER:** TOTAL COAL SOUTH AFRICA (Pty) Ltd

**ADDRESS:** P.O. BOX 2324 KRIEL 2271

**WASTE LICENSE IN TERMS OF SECTION 20 OF THE NATIONAL ENVIRONMENTAL  
MANAGEMENT: WASTE ACT, 2008 (Act No. 59 of 2008)**

I, Joanne Yawitch, in my capacity as Deputy Director-General: Environmental Quality and Protect of the National Department of Environmental Affairs (hereinafter referred to as "the Department"), in terms of section 20 of the National Environmental Management: Waste Act 2008 (Act No. 59 of 2008) hereby authorise the



**H H: Waste Storage License: Forzando South Colliery**

abovementioned license holder to temporarily store prescribed waste streams at the abovementioned storage facility, subject to the conditions specified herein.

In this license, "Director" means the Director: Authorisations and Waste Disposal Management of the National Department of Environmental Affairs who may be contacted at the address below:

Director: Authorisations and Waste Disposal Management  
Department of Environmental Affairs and Tourism  
Private Bag X447  
PRETORIA  
0001

In this License, "Director: RPW" means the Director: Resource Protection and Waste of the National Department of Water Affairs who may be contacted at the address below:

The Director: Resource Protection and Waste  
Private Bag X313  
PRETORIA  
0001

**1. SITE DETAILS**

**1.1 LOCATION**

1.1.1 This license authorises the temporary storage of prescribed waste streams as per condition 3.1 below at the abovementioned waste storage facility at Koppie 228 IS remaining extent of portion O, within Msukwalgwa Local Municipality in Mpumalanga Province, (hereinafter referred to as "the Site") according to the Total Coal South Africa Section 20 Exemption Application Report in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 Of 2008) compiled by Carina Kurpershoek, dated November 2007 (hereinafter referred to as "the Report").

1.1.2 The location of the site must be according to the co-ordinates indicated on the license application form for this activity, submitted by the license holder (Annexure III hereafter).

**1.2 DOCUMENTS CONSIDERED**

1.2.1 Dorsfontein Colliery Exemption Application in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) as compiled by Carina Kurpershoek, dated November 2007.

1.2.2 Application form, dated 01 October 2007.





**H H: Waste Storage License: Forzando South Colliery**

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- 1.2.4 Supporting letter from EnviroServe dated 04 September 2007
- 1.3 LICENSE CONDITIONS**
- 1.3.1 SITE SECURITY AND ACCESS CONTROL**
- 1.3.1 Weatherproof, durable and legible notices in at least three official languages applicable in the area, must be displayed at each entrance to the site. These notices must prohibit unauthorised entry and state the hours of operation, the name, address and telephone number of the License Holder and the person responsible for the operation of the site.
- 1.3.2 The License Holder must ensure effective access control on the site to reasonably prevent unauthorised entry. Internationally acceptable signs indicating the risks involved in unauthorised entry must be displayed at each entrance.
- 1.3.3 The License Holder must prevent the storage of waste that is not authorised for storage at the site.
- 2. MANAGEMENT**
- 2.1 GENERAL MANAGEMENT**
- 2.1.1 The site must be managed and operated:
- (a) in accordance with a documented management system (EMS) that inter alia identifies and minimises risks of pollution, including those arising from operations, accidents, incidents and non-conformances and those drawn to the attention of the license holder as a result of complaints;
  - (b) in accordance with any other written instruction by the Director;
- 2.1.2 Any persons having duties that are or may be affected by the matters set out in this license must have convenient access to a copy that must be kept at or near the place where those duties are carried out.
- 2.2 EMERGENCY PREPAREDNESS PLAN**
- 2.2.1 The license holder must maintain and implement an emergency preparedness plan and review it annually when conducting audit and after each emergency and or major accident. The plan must among others include:
- a) Vehicle / Machinery Fire & Malfunction
  - b) Spillage on site and on route
  - c) Natural disaster such as floods
  - d) Industrial Action



**H H: Waste Storage License: Forzando South Colliery**

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**3. PERMISSIBLE WASTE**

- 3.1 Any portion of the site, which has been constructed or developed according to condition 4, may be used for the storage of waste streams generated at Forzando South Colliery as part of the day to day operations.
- 3.2 The licence holder must ensure each waste stream is stored according to all relevant and applicable legislation in addition to the requirements of this licence.
- 3.2 The classification, acceptance and disposal criteria as listed in the latest edition of the document "Minimum Requirements for Handling, Classification and Disposal of Hazardous Waste, Waste Management Series, Department of Water Affairs and Forestry (DWAF) or by the Department in future, (hereinafter referred to as the Minimum Requirements series)" must be conformed to.

**4. CONSTRUCTION**

- 4.1 The site or any portion thereof may only be used for the storage of permissible waste if the site or any such portion has been constructed or developed according to condition 4.2 below.
- 4.2 The waste storage areas must have a roof or an adequate mechanism to protect waste from direct sunlight and rain; bund walls, firm chemically resistant and impermeable water proof base (including concrete joints) with effective drainage system.
- 4.3 The license holder shall make provision for sanitation facilities on site in line with the Occupational Health and Safety Act, 1993 (Act 85 of 1993).

**5. GENERAL IMPACT MANAGEMENT AND OPERATION**

**5.1 IMPACT MANAGEMENT**

- 5.1.1 Waste which is not permissible under condition 3 must be dealt with according to relevant legislation or the Department's policies and practices.
- 5.1.2 License holder must prevent spillages; where they happen nonetheless, condition 2.2.1 above should be improved and the license holder must ensure the effective and safe disposal including cleaning of such spillages.
- 5.1.3 License holder must prevent nuisance conditions or health hazards, or the potential creation of nuisance conditions or health hazards.
- 5.1.4 License holder must ensure that all personnel who work with hazardous waste are trained to deal with these potentially hazardous situations so as to minimise the risks involved.
- 5.1.5 License holder must ensure that all liquid wastes, whose emissions to water or land could cause pollution, shall be provided with secondary containment and or divert to sewer testing water quality after receiving written approval from the relevant municipality



**H H: Waste Storage License: Forzando South Colliery**

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- 5.1.6 License holder must ensure that emissions from the site shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Department and interested and affected parties.
- 5.1.7 Uncontaminated storm water must be diverted around the site towards the municipal storm water system.
- 5.1.9 In order to prevent nuisance conditions the License Holder must ensure that all storage skips and bins are not overfilled.
- 5.1.10 License Holder must ensure that the waste that cannot be recycled for technical and commercial reasons are disposed off at an appropriately licensed waste disposal activity.

**5.2 OPERATION**

- 5.2.1 All solid waste must be stored in leak proof containers that are covered to prevent waste from coming in contact with rainfall and must be inspected regularly for leaks.
- 5.2.2 Wastewater resulting from the cleaning of floors and machinery and storm water from the site must only be discharged into the natural environment after testing that it conforms to national government water quality guidelines for discharge into the natural environment and discharge into sewer must also be after testing and obtaining written authorisation from the relevant local municipality.
- 5.2.3 License holder must ensure that the drainage systems are linked to the dirty water system on the mine. Dirty storm water runoff is routed to the dirty water trench leading to 3 water control dams, the dams are lined with HDPE lining.
- 5.2.4 License holder must ensure that the hazardous storage area is surrounded by an interception trench with a sump for intercepting and recovering potential spills.
- 5.2.5 License holder must ensure proper waste segregation on site and each container must be properly labelled indicating the waste stream contained.
- 5.2.6 The sludge must be pumped from the tank, classified and removed from the site tankers for recycling or disposal at a licensed hazardous waste disposal site unless delisting has been obtained from the Director.
- 5.2.7 License holder must ensure the health and safety of workers and employees on site, in terms of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

**6. MONITORING**

**6.1 MONITORING METHODS AND PARAMETERS**

- 6.1.1 The license holder must carry out all tests required in terms of this license in accordance with methods prescribed by and obtainable from the South African Bureau of Standards



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6.1.2 The license holder must put in place a monitoring and measurement plan that must amongst others include:

- a) Storm water quality monitoring;
- b) Noise assessments;
- c) Air quality monitoring.

**6.2 WATER MONITORING**

**6.2.1 SURFACE WATER**

6.2.1.1 Surface water monitoring must be performed within the first hour of rain in all storm water drains outlets that discharge into the natural environment for the water quality variables listed in Annexure I.

6.2.1.2 Monitoring for treated effluent including contaminated runoff water, which is discharged into sewer must be conducted at the point where it exits the treatment facility and/or enters sewer network.

**6.2.2 INVESTIGATIVE MONITORING**

6.2.2.1 If in the opinion of the Director and Director: RPW, a water quality variables at any monitoring point listed under the detection monitoring programme, as referred to in condition 6.2.1 above, shows high levels the license holder may be required to undertake a geo-hydrological survey for drilling of testing boreholes upstream and downstream of the site.

**7. INVESTIGATIONS**

7.1 If, in the opinion of the Director, environmental pollution, nuisances or health risks may be or is occurring on the site, the License Holder must initiate an investigation into the cause of the problem or suspected problem.

7.2 If, in the opinion of the Director and or Director: RPW, water pollution may be or is occurring the license holder must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables, at those monitoring points and such frequency as may be specified by Director: RPW.

7.3 Investigations carried out in terms of conditions 7.1 and 7.2 above must include the monitoring of the relevant environmental pollution, nuisance and health risk variables, at those monitoring points and such frequency to be determined in consultation with the Director.

7.4 Should the investigation carried out as per conditions 7.1 and 7.2 above reveal any unacceptable levels of pollution, the License Holder must submit mitigation measures to the satisfaction of the Director.



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**8. AUDITING**

**8.1 INTERNAL AUDITS**

8.1.1 Internal audits must be conducted quarterly by the license holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition 8.2.1.

**8.2 EXTERNAL AUDITS**

8.2.1 The license holder must appoint an independent external auditor in consultation with the Monitoring Committee to audit compliance to licence conditions and this auditor must compile an audit report documenting the findings of the audit, which must be submitted by the license holder according to condition 10.9, below.

8.2.2 The audit report must

- a) specifically state whether conditions of this license are adhered to.
- b) include an interpretation of all available data and test results regarding the operation of the activity and all its impacts on the environment with specific reference to ground water quality.
- c) specify target dates for the implementation of the recommendations by the license holder to achieve compliance.
- d) contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the license holder and whether corrective action taken for the previous audit non conformities was adequate.
- e) show all monitoring results graphically and conduct trend analysis

**8.3 DEPARTMENTAL AUDITS AND INSPECTIONS**

8.3.1 The Department reserves the right to audit and/or inspect the Activity without prior notification at any time and frequency as may be determined by the Director.

8.3.2 The license holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.

8.3.3 The findings of these audits or inspections must be made available to the license holder within 30 days of the end of the audit or inspection. Information from the audits must be treated in accordance with the Promotion of Access to Information Act, 2000 (Act 2 of 2000).

**9. RECORDING**

9.1 The license holder must keep records and update all the information referred to in Annexure II and submit this information to the Director and the Director: RPW on an annual basis.

9.2 All records required or resulting from activities required by this license must:



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- (a) be legible;
  - (b) be made as soon as reasonably practicable and should form part of the external audit report;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable and
  - (d) be retained in accordance with a documented procedures which is approved by the Department.
- 9.3 Records in terms of volume, source and the nature of all wastes received and transferred are maintained and reported as per Annexure II and as per condition 9.1 above.
- 9.4 Records including names of receiving companies and safe disposal certificates of the amount of waste received and dispatched for disposal at a licensed waste disposal activity must be kept.
- 9.5 Records demonstrating compliance with condition 2.1.1 must be maintained.
- 9.6 Records of training and verification of competence must be kept by the license holder for all personnel who work with hazardous waste.
- 10 REPORTING**
- 10.1 The license holder must, within 24 hours notify the Director of the occurrence or detection of any incident on the Activity, or incidental to the operation of the activity, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.
- 10.2 The license holder must, within 14 days, or a shorter period of time, if specified by the Director from the occurrence or detection of any incident referred to in condition 10.1, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by top management, to the satisfaction of the Director and/or the Director: RPW of measures taken to:
- a) correct the impact resulting from the incident;
  - b) prevent the incident from causing any further impact; and
  - c) prevent a recurrence of a similar incident.
- 10.3 In the event that measures have not been implemented within 21 days of the incident to address impacts caused by the incident referred to in condition 10.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the License Holder.
- 10.4 The license holder must keep an incident report and complaints register, which must be made available to external auditor, Departmental and DWA auditors for the purpose of audit.
- 10.5 The Department must be notified without delay in the case of the following:
- a) any malfunction, breakdown or failure of equipment or techniques, accident or fugitive



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- b) the breach of this license; and
  - c) any significant adverse environmental and health effects.
- 10.6 Prior written notification must be given to the Director of the following events and in the specified timescales.
- a) as soon as practicable prior to the permanent cessation of any operational activities
  - b) full or partial cessation of the operational activities for a period likely to exceed 3 months
  - c) full or partial resumption of the operation of all or part of the activities after a cessation notified under (b) above
- 10.7 The Department must be notified within 7 days of any changes to the management of the activity including the name of the incoming person together with evidence that such person has the required technical competence.
- 10.8 The Department must be notified within 14 days of the following changes:
- a) License holder's trading name, registered name or registered office address;
  - b) Particulars of the license holder's ultimate holding company (including details of an ultimate holding where a license holder has become a subsidiary);
  - c) steps taken with a view to the license holder, or any one of them, going into bankruptcy, entering into composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 10.9 Each external audit report referred to in condition 8.2 must be submitted to the Director within 30 days from the date on which the external auditor finalised the audit.
- 11. REHABILITATION AND CLOSURE OF THE SITE**
- 11.1 The license holder must rehabilitate the activity or any portion thereof, in accordance with a closure report and rehabilitation plan, which must be submitted to the Director for approval at least one year prior to the intended closure of the site, or any portion thereof.
- 11.2 The license holder shall remain responsible for the site, or any of its impacts on the environment, after operations on the site have ceased.
- 12. LEASING AND ALIENATION OF THE SITE**
- 12.1 Should the license holder want to alienate or lease the site, he/she shall notify the Director in writing of such an intention at least 120 days prior to the said transaction.
- 12.2 Should the license holder want to transfer holder-ship of this, he/she shall notify and obtain approval from the Director for such a transfer, at least 120 days prior to the said transfer.
- 12.3 Any subsequent license holder shall be bound by the conditions of this license.



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**13. GENERAL**

- 13.1 This license shall not be transferable unless such transfer is subject to condition 12.2.
- 13.2 This license shall not be construed as exempting the license holder from compliance with the provisions of the National and Provincial Legislation and any relevant Ordinance, Regulation, By-laws and relevant National Standards and norms.
- 13.3 Transgression of any condition of this license could result in the validity of the license being terminated by the Department.
- 13.4 This license is valid for a period of twenty (20) years and shall be reviewed every five years from the date of issue or at any time before or after that date. Based on the results of the review, compliance to license conditions or recommendations from audit reports and or changing legislation, the License could be amended or withdrawn or validity thereof extended.

**14 APPEAL OF LICENCE**

- 14.1 The licence holder must notify every registered interested and affected party, in writing and within five (5) days, of receiving the Department's decision.
- 14.2 The notification referred to in 15.1. must –
- 14.2.1 Specify the date on which the licence was issued;
- 14.2.2 Inform the registered interested and affected party of the appeal procedure provided for in Chapter 7 of the GN No. R 385 of 21 April 2006 in terms of National Environmental Management Act, 1998, as amended (see Annexure 1).
- 14.2.3 Advise the interested and affected party that a copy of a licence and reasons for the decision will be furnished on request.
- 14.2.4 An appeal against the decision must be lodged in terms of chapter 7 of the GN No. R 385 of 21 April 2006 in terms of NEMA 1998, as amended, from the date of this license, with:

**The Minister**  
Department of Environmental Affairs  
Private Bag X 447  
PRETORIA  
0001  
Tel No.: (012) 310 3705  
Fax No.: (012) 320 7561

  
**Ms Joanne Yawitch**  
**DEPUTY DIRECTOR- GENERAL**

DATE: 2010/04/20





**ANNEXURE I**

**WATER QUALITY VARIABLES REQUIRED FOR BACKGROUND MONITORING  
AND INVESTIGATIVE MONITORING: CONDITIONS 6.2.1.1**

Alkalinity (P.Alk)	Free & saline ammonia as N (NH <sub>4</sub> -N)
Calcium (Ca)	Boron (B)
Chromium (hexavalent) (Cr <sup>6+</sup> )	Magnesium (Mg)
Chromium (Total) (Cr)	Cadmium (Cd)
Chemical oxygen demand (COD)	Chloride (Cl)
Cyanide (CN)	Fluoride (F)
Mercury (Hg)	pH
Lead (Pb)	Sodium (Na)
Nitrate (as N) (NO <sub>3</sub> -N)	Electrical conductivity (EC)
Phenolic compounds (Phen)	Sulphate (SO <sub>4</sub> )
Potassium (K)	
Total dissolved solids (TDS)	



**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

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**ANNEXURE II**

**INFORMATION WHICH SHALL BE SUBMITTED ON AN ANNUAL BASIS: CONDITION 9.1 & 9.3**

\* = Indicate with an X. Please print legibly.

NAME OF ACTIVITY: _____	DATE OF REPORT: _____ (y/m/d)
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**1. Registered owner(s) of property on which disposal activity is situated:**

Name	Telephone	
Postal Address	Fax	
	Postal Code	

**2. Operator in control of storage activity:**

Name	Telephone	
Identity number	Tel. After hours	
Educational Qualifications		
Other Relevant competencies:		

**3. Indicate the type of waste and approximate quantities of waste stored during the year:**

Type of waste (Specify)	Quantity (m <sup>3</sup> annum <sup>-1</sup> )
<b>TOTAL</b>	

**4. Indicate the type of waste and approximate quantities of waste reused, recycled, recovered, treated, or disposed of during the year.:**

Type of waste	Quantity (m <sup>3</sup> annum <sup>-1</sup> )	reused	recycled	recovered	treated	disposed
<b>TOTAL</b>						

I, the undersigned, declare that the information stated above and the risk assessment below is to my knowledge a true reflection of the status at the \_\_\_\_\_ waste storage activity.

Signature: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Capacity: \_\_\_\_\_  
 Place: \_\_\_\_\_

Date \_\_\_\_\_



# water & forestry

Department:  
Water Affairs and Forestry  
**REPUBLIC OF SOUTH AFRICA**

This is to certify that

**FORZANDO SOUTH SEWAGE TREATMENT PLANT**

of **OPERATORS UNEMPLOYED CURRENTLY & WCW NOT  
ON SYSTEM**

has been registered in terms of section 26 of the National  
Water Act (Act No. 36 of 1998) as a

Class **D** Work

for the operation of water care works used for purification,  
treatment or disposal of effluent.

Director-General  
**2009-01-27**  
Date of Issue



This certificate is issued without alteration or erasure of any kind

**APPENDIX 4**  
**PUBLIC PARTICIPATION**

**APPENDIX 4a**  
**I&AP DATABASE**

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Rogon De Wit	Mpumalanga Parks Board	Mpumalanga Parks Board	0842322002		Private Bag X11338	Nelspruit	1200	vanep@dwaf.gov.za
S.A. Mkhina	Mpumalanga Department of Roads & Transport	Mpumalanga Department of Roads & Transport	0132352965	0639581625	Private Bag X1038	Nelspruit	1200	parab@mpg.gov.za
Sarah Lethi	South African Local Government Association (SALGA) -	South African Local Government Association (SALGA) -	0139473709		Private Bag X1038	Nelspruit	1200	parab@mpg.gov.za
Dennis Ndlovu	Mpumalanga	Environmental Manager	0137522566	0214624509	Private Bag 24018	Kwa-Matshini	1022	hlatshwayo@mpg.gov.za
Zimna Dhami	Mpumalanga Department of Land Affairs	Environmental Manager	0137522566	0214624509	Private Bag 24018	Kwa-Matshini	1022	hlatshwayo@mpg.gov.za
Surgon Mare	Department of Agriculture and Land Affairs	Environmental Manager	0137522566	0214624509	Private Bag 24018	Kwa-Matshini	1022	hlatshwayo@mpg.gov.za
Martha Mokor	DMR Ermalsheni	DMR Ermalsheni	0136303000	0136303288	P.O. Box 4637	Capricorn	8000	hlatshwayo@mpg.gov.za
The Director	Mpumalanga Tourism and Parks Agency	Mpumalanga Tourism and Parks Agency	0137693500	0137693501	Private Bag X11338	Nelspruit	1200	hlatshwayo@mpg.gov.za
Mr. Bopadi	Agri Mpumalanga	Agri Mpumalanga	0178181255	0869500576	Private Bag X11338	Nelspruit	1200	hlatshwayo@mpg.gov.za
Kross Pretorius	Mpumalanga Lakes District Protection Group	Mpumalanga Lakes District Protection Group	0133333095	0133333095	P.O. Box 619	Nelspruit	2350	hlatshwayo@mpg.gov.za
Oswethu Khulu	Mpumalanga Department of Economic Development, Environment and Tourism	Mpumalanga Department of Economic Development, Environment and Tourism	0136922508	0137694614	P.O. Box 201	Belfast	1100	hlatshwayo@mpg.gov.za
Dan Mthethwa	National Department of Water and Sanitation	Director-General	0123369090	0123668650	Private Bag X11215	Nelspruit	1200	hlatshwayo@mpg.gov.za
Nashitsho	National Department of Environmental Affairs	Minister	0123989744	0865995506	Private Bag X313	Pretoria	0001	hlatshwayo@mpg.gov.za
Bomo Edna N.	Department of Mineral Resources	Ministry Transformation and Regulation	0136551418	0136569932	Private Bag X 447	Pretoria	0002	hlatshwayo@mpg.gov.za
MJ Nkabinde	Department of Environmental Affairs	Ministry Transformation and Regulation	01231931563	0136569932	Private Bag X 27279	Ermalsheni	1035	hlatshwayo@mpg.gov.za
Mabule R.	Department of Environmental Affairs	Ministry Transformation and Regulation	01231931563	0136569932	Private Bag X 27279	Ermalsheni	1035	hlatshwayo@mpg.gov.za
N. Mhassoo	SANRAL	SANRAL Statutory Control Department	0333928510	0333883365	P.O. Box 100411	Stellenbosch	7600	hlatshwayo@mpg.gov.za
Estim Mare	WESSA	WESSA Head Office Conservation Dept	0323303931	0212300098	P.O. Box 945	Ermedo	2160	hlatshwayo@mpg.gov.za
Nomlando Ndlovu	National Department of Rural Development and Land Affairs	National Department of Rural Development and Land Affairs	0862794919		Private Bag 2032	Pretoria	0001	hlatshwayo@mpg.gov.za
Thomas Mjiji	GroundWork	GroundWork	0862794919		Private Bag 2032	Pretoria	0001	hlatshwayo@mpg.gov.za
Narritse Luthi	Federation for a Sustainable Environment	Federation for a Sustainable Environment	0114859910	0884641509	Poortville Suite 87, Private Bag X033	Ruimsig	2128	hlatshwayo@mpg.gov.za
Mogale Mabse	Department of Water and Sanitation	Catchment Forum Management	0828095727					hlatshwayo@mpg.gov.za
Phisoan Khow	Department of Water and Sanitation	Catchment Forum Management	0828095727					hlatshwayo@mpg.gov.za
Lawrence Riar	Vaal Dam Forum: Vaal River	Forum Management	0828095727					hlatshwayo@mpg.gov.za
Mercy Raubuh	Department of Water and Sanitation	Forum Management	0828095727					hlatshwayo@mpg.gov.za
D. Barbara	Department of Agriculture, Forestry and Fisheries	Department of Agriculture, Forestry and Fisheries	0746058102					hlatshwayo@mpg.gov.za
	Mpumalanga Department of Health	Mpumalanga Department of Health						hlatshwayo@mpg.gov.za

**APPENDIX 4b**  
**INITIAL NOTIFICATION LETTERS**



20 June, 2018

Our ref: LW/kr/1244

Dear Interested and Affected Party

**NOTIFICATION REGARDING OPPORTUNITY TO PARTICIPATE IN THE ENVIRONMENTAL LICENCING PROCESSES FOR THE KALABASFONTEIN PROJECT IN THE MSUKALINGWA LOCAL MUNICIPALITY, MPUMALANGA PROVINCE**

Environmental Impact Management services (Pty) Ltd (EIMS) has been appointed by Exxaro Coal to assist with undertaking the necessary environmental authorisation and amendment processes for the Kalabasfontein Project which includes the extension of the Forzando South Coal Mine.

The project footprint falls within the Msukalingwa Locality Municipality, Mpumalanga. The project area covers portions 7, 8, RE, 11 and 13 of Farm Kalabasfontein 232 IS. The mining area is situated 20 kilometres north of Bethal and 20 kilometres east of Ga-Nala (Kriel).

Notice is given in terms of Regulation 41 of the 2014 Environmental Impact Assessment Regulations, promulgated under Section 24(5) of the National Environmental Management Act (Act No. 107 of 1998 – NEMA), of applications for Environmental Authorisation (EA), Water Use License (WUL) and amendment application to an existing Environmental Management Plan (EMP) and Mine Works Program (MWP) for the proposed Kalabasfontein Project which includes the extension of mining operations at Forzando South Coal Mine. During the course of the Environmental Impact Assessment (EIA) process the need for a Waste Management License (WML) as well as other environmental legal requirements will be identified.

Forzando Coal Mines (Pty) Ltd wishes to extend the current mining activities at Forzando South underground coal mines (under Mining Right MR380) by inclusion of contiguous areas which are held under Prospecting Rights 1035PR and 1170PR. The proposed extension does not intend to develop new surface infrastructure. There will be a need for two new ventilation shafts at the Forzando South mining area.

As a potential I&AP, you are invited to register and comment on the project. Should you have any comments or concerns regarding the project, or should you require additional information, please contact EIMS telephonically, or in writing by no later than 20 July 2018 using the contact details below. Please include the project reference number (1244) in all correspondence.

Furthermore, please be informed that the Environmental Scoping Report will be available for from 10 July to 10 August 2018, for the perusal and comment of all Interested and Affected Parties. A copy of the report will be available at the Bethal Public Library as well as on the EIMS website (<http://www.eims.co.za/public-participation>).

In order to present the findings of the Scoping Report to the public and to solicit comments on the report, a public meeting will be held on the 25th July 2018 at the Bethal Public Library (Danie Nortje Street, Contact Bettie Jordan, 017 624 3029) from 13h00 to 15h00.

Furthermore, please note that only registered I&APs will be informed of any future project information and participation opportunities.

**Environmental Impact Management Services (Pty) Ltd**

**Contact Person:** Cheyenne Muthukarapan

**Email:** [kalabasfontein@eims.co.za](mailto:kalabasfontein@eims.co.za)

**Tel:** 011 789 7170 / **Fax:** 011 787 3059

**Postal Address:** PO Box 2083, Pinegowrie, 2123

**EIMS Reference Number:** 1244

Sincerely

**Cheyenne Muthukarapan**

Geagte Belangstellende en Geaffekteerde Party

**KENNISGEWING AANGAANDE DIE GELEENTHEID OM DEEL TE NEEM AAN DIE OMGEWINGS LISENSIËRING  
PROSES VIR DIE KALABASFONTEIN PROJEC IN DIE MSUKALINWA PLAASLIKE MUNISIPALITEIT,  
MPUMALANGA PROVINSIE**

Environmental Impact Management Services (Edms) Bpk (EIMS) is deur Exxaro Coal aangestel om te help met die nodige omgewingsmagtigings- en wysigingsprosesse vir die Kalabasfontein-projek wat die uitbreiding van die Forzando Suid-Steenkoolmyn insluit. Die projek val binne die Msukaligwa Plaaslike Munisipaliteit, Mpumalanga. Die projek area dek Gedeeltes 7, 8, 11, 13, en RE van die Plaas Kalabasfontein 232 IS. Die myngebied is ongeveer 20km noord van Bethal en 20km oos van Ga-Nala (Kriel).

Hiermee word kennis gegee in gevolg Hoofstuk 6 van die 2014 Omgewingsimpakstudie (EIA) regulasies, uitgevaardig kragtens artikel 24 (5) van die Wet op Nasionale Omgewingsbestuur (Wet No. 107 van 1998 - NEMA), vir 'n aansoek om Omgewingsmagtiging (EA), Watergebruiklisensie (WUL) (Nasionale Waterwet No 36 van 1998) en 'n wysiging aansoek tot 'n bestaande Omgewingsbestuursplan (EMP) en 'n Myn Werke Program (MWP) Artikel 102 van die Minerale en Petroleum Hulpbronontwikkeling (Wet No 28 van 2002 -MPRDA) vir die voorgestelde Kalabasfontein Projek. Die projek sluit in die uitbreiding van die ondergrondse mynbedrywighede by Forzando Suid Steenkoolmyn tot op die aangrensende Kalabasfontein Plaas. Die behoefte aan 'n Afvalbestuurslisensie (WML- Nasionale Omgewingsbestuur Afval Wet No 59 van 2008) en ander omgewings wetlike vereistes sal geïdentifiseer en gekommunikeer word aan die geregistreerde belangstellende en geaffekteerde partye (B & GP) deur die loop van die Omgewingsimpakstudie (EIA) Proses.

Forzando Coal Mines (Pty) Ltd wil die huidige ondergrondse mynbedrywighede by Forzando Suid-steenkoolmyn (onder mynreg MR380) uitbrei deur die insluiting van die aangrensende gebiede wat gehou word onder prospekterregte 1035PR en 1170PR. Die voorgestelde uitbreiding is nie van plan om nuwe oppervlak infrastruktuur op die uitbreidings gebiede te ontwikkel nie. Daar sal 'n behoefte wees vir twee nuwe ventilasie skagte binne die myngebied van Forzando Suid.

As 'n potensiële Belangstellende & Geaffekteerde Party (B & GP), word u uitgenooi om te registreer en kommentaar te lewer aangaande die projek. Indien u enige kommentaar of bekommernisse het met betrekking tot die projek, of as u verdere inligting verlang, kan u EIMS telefonies of skriftelik kontak teen nie later as 20 Julie 2018 deur gebruik te maak van die kontak besonderhede hieronder. Sluit asseblief die projek verwysingsnommer (1244) in alle korrespondensie in.

Verder, wees asseblief ingelig dat 'n Omvangsbepalings verslag beskikbaar sal wees van 10 Julie tot 10 Augustus 2018 vir hersiening en kommentaar van alle B & GPe. 'n Harde kopie van die verslag sal beskikbaar wees by die Bethal Biblioteek (Danie Nortje Straat, kontak: Bettie Jordan op 017 624 3029) sowel as op die EIMS webtuiste (<http://www.eims.co.za/public-participation>).

Ten einde, die bevindinge van die Omvangsbepalings verslag aan die publiek te bied, en om die kommentaar op die verslag te verkry, sal 'n publieke vergadering gehou word op 25 Julie 2018 by Bethal Biblioteek, Danie Nortje Straat (017 624 3029, Bettie Jordan) vanaf 13h00 tot 15h00. Verder, neem asseblief kennis dat slegs geregistreerde B & GPe in kennis gestel sal word van enige verdere projek inligting en deelname geleenthede.

**Environmental Impact Management Services (Pty) Ltd**

**Kontak Persoon:** Cheyenne Muthukarapan

**Epos:** [kalabasfontein@eims.co.za](mailto:kalabasfontein@eims.co.za) **EIMS Verwysingsnommer:** 1244

**Tel:** 011 789 7170 / **Faks:** 011 787 3059

**Pos Adres:** PO Box 2083, Pinegowrie, 2123

Vriendelike Groete

**Cheyenne Muthukarapan**

## INTERESTED AND AFFECTED PARTIES REGISTRATION FORM

<b>EIMS Ref #:</b>	1244	<b>PLEASE COMPLETE AND RETURN TO:</b> Environmental Impact Management Services (Pty) Ltd Attention: Cheyenne Muthukarapan Fax: (011) 787 3059 Phone: (011) 789-7170 E-Mail: kalabasfontein@eims.co.za Postal Address: P.O. Box 2083, Pinegowrie, 2123, South Africa
<b>Competent Authority Ref #:</b>	Forzando South 380MR MP30/5/1/1/2/1035PR MP30/5/1/1/2/1170PR	
<b>Project Title:</b>	PROPOSED KALABASFONTEIN PROJECT, MPUMALANGA.	



This form serves to register Interested and Affected Parties (I&AP's) for the above-mentioned project and to solicit input and participation. This form will be submitted to the competent authority for consideration in the decision-making process.

<b>Title</b>		<b>Full name and surname</b>			
<b>Contact details</b>		<b>Tel (w)</b>		<b>Tel (h)</b>	
		<b>Fax</b>		<b>Cell</b>	
		<b>E-mail</b>			
		<b>Postal Address</b>			
		<b>Organisation and/or <u>property description</u> (if landowner/ lawful occupier)</b>			
<b>Please state your interest in the proposed project (you are welcome to add additional pages if required):</b>					
<b>Please assist by completing the questions below. These responses will be utilised to inform the Environmental Impact Assessment Process. Please submit additional pages if more space is required.</b>					
		<b>Are you a land owner or legal land occupier <u>within the application area</u>?</b>			
		<b>Are you aware of any communities which exist within the application area, provide detail and possible contact details?</b>			
		<b>Are you aware of any tribal authorities within, or affected by, the application area, provide detail and possible contact details?</b>			
		<b>Are you aware of any other I&amp;APs who need to be notified, please provide detail and possible contact details?</b>			

<p>Please can you provide us with a high level description of the receiving environment? (including land uses such as farming, grazing etc; vegetation; topographical features; Infrastructure; sensitive flora/fauna).</p>	
<p>Are you aware of any land developments (current or proposed) within the application area that may be relevant to the proposed operation?</p>	
<p>Are you aware of any cultural of heritage features within the study area and surrounds, please provide detail?</p>	
<p>Please describe any bio-physical and/or socio-economic impacts that you believe should be considered during the study?</p>	
<p>Do you have any specific concerns, comments or objections to the proposed project, if so could you please provide us with information?</p>	
<p>General Comments:</p>	

EIMS respectfully requests that you please sign this document and return it to EIMS at the details provided to confirm that you have received notification with regard to the above, and to ensure that your comments, concerns and various inputs are recorded. All comments, queries, or concerns must be received via this I&AP registration form and questionnaire or alternate means. Please note that only registered I&AP's will be included in future correspondence regarding this EIA process.

Signed.....Name.....Date.....

**PURPOSE OF THIS DOCUMENT:**

- This Background Information Document (BID) provides you, as an Interested and Affected Party (I&AP), an overview of the proposed project.
- The BID invites you, as an I&AP, to participate in the required Public Participation Process.
- The BID provides you, as an I&AP with an opportunity to contribute and participate in the formulation of the Scoping and EIA Reports.
- The BID also provides you, as an I&AP an opportunity to provide the project team with your comments, concerns and objections to the proposed project.

**1 BACKGROUND INFORMATION DOCUMENT**

**1.1 PROJECT INTRODUCTION:**

Forzando Coal Mines (Pty) Ltd has appointed Environmental Impact Management Services (Pty) Ltd (EIMS) as the Environmental Assessment Practitioner (EAP) to undertake the necessary environmental permitting and licencing processes for the Kalabasfontein Project.

It is anticipated that listed activities contained in the National Environmental Management Act (Act 107 of 1998) (NEMA) and National Water Act (Act 36 of 1998) (NWA) will be triggered by the proposed extension. During the EIA process the need for a Waste Management License (NEMWA) and other environmental legal requirements will be also identified.

**1.2 AIM OF THE BACKGROUND INFORMATION DOCUMENT (BID):**

The aim of the BID is to:

- Provide an overview of the Environmental Authorisation (EA) / Water Use Licensing (WUL) Applications as well as the public participation processes which will be undertaken for the proposed Kalabasfontein Project which includes the extension of the Forzando South Coal Mine as well as the proposed amendments to existing authorisations/licences/ and rights;
- The Integrated EA Application process shall be undertaken in terms of the EIA Regulations, 2014 (GNR 982) promulgated under the National Environmental Management Act (Act 107 of 1998 – NEMA) as amended. A full EIA process will be followed which involves a Scoping phase which is the ‘feasibility’ and largely desk-top assessment stage of the project, followed by more detailed assessments in the Environmental Impact Report (EIR) phase;
- Allow I&APs the opportunity to obtain a broad understanding of the proposed project and to request or share information; and
- Provide details on how I&AP’s can register their interest in and submit comments on, the project. It is important to note that only registered I&AP’s will receive further communication regarding the project for the duration of the EIA process (i.e. invitation to review and comment on the Scoping and EIA Reports).

**1.3 LOCATION, SCALE, AND EXTENT OF THE PROPOSED PROJECT:**

The project footprint falls within the Msukaligwa Local Municipality, Mpumalanga. The project area covers portions 7, 8, 11, 13, and RE of Farm Kalabasfontein 232 IS. The project area is situated ~20 kilometres north of Bethal and ~20 kilometres east of Ga-Nala (Kriel). Please refer to locality map at the end of this BID (**Figure 3**).

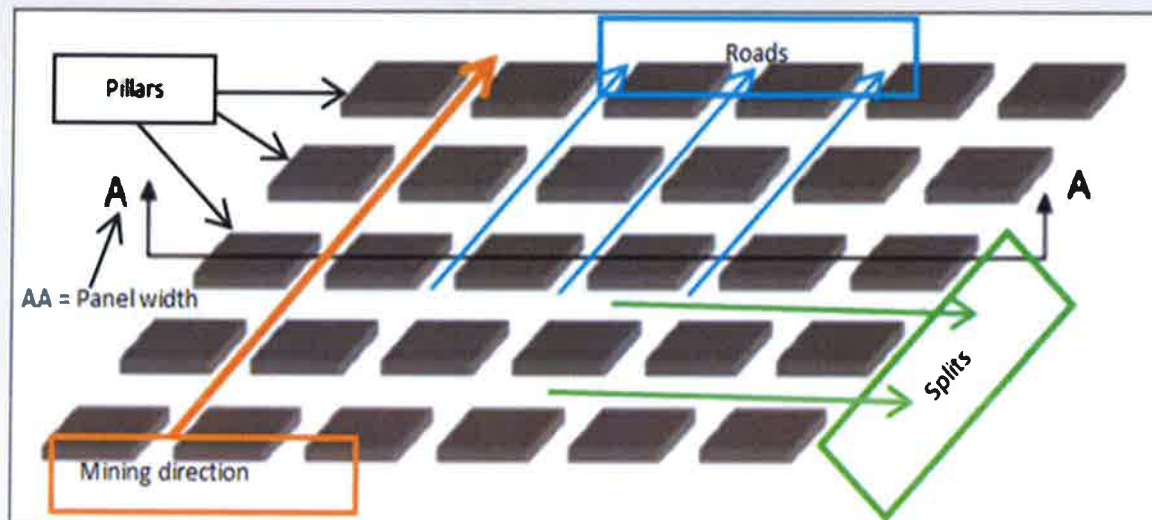
**1.4 PROJECT DESCRIPTION:**

Forzando Coal Mines (Pty) Ltd wishes to extend the current mining activities at Forzando South underground coal mines (under Mining Right MR380) by inclusion of contiguous areas which are held under Prospecting Rights 1035PR and 1170PR- herein referred to as the Kalabasfontein Project. The proposed extension does not intend to develop new surface infrastructure. There will be a need for two new ventilation shafts at the Forzando South mining area.

The area required for the mining is ~15,478,296m<sup>2</sup> in extent and ranges from 22.18m - 127.23m below surface level. Bord and pillar mining using Continuous Miners (CM’s) was selected as the primary extraction method. In bord and pillar mining (**Figure 1**) the parallel size of development is the development direction. The development is called the end wall and the end wall is the development direction. The development is called the end wall and the end wall is the development direction.

equipment trailing cables. Pillar size is determined by the safety factor formula; which is the pillar strength divided by the pillar load (mass of the overburden carried by the pillar). Panel design will be based on either the Probability of Failure (PoF) or the safety factor design criterion.

The principal target market for Kalabasfontein Project is the export market, in line with the market served by the current Forzando Coal Mines. As the Kalabasfontein project will use the existing Forzando South and Forzando North infrastructure, it is envisaged that additional infrastructure requirements will be minimal. Water and electricity will be supplied to the underground workings via the existing access and adits.



**Figure 1: Typical board and pillar mining panel layout for underground extraction.**

Kalabasfontein ROM will be crushed at Forzando South prior to conveying to Forzando North beneficiation plant for processing. Beneficiated coal is railed by means of a rapid loader to Richards Bay Coal Terminal (RBCT) and then shipped from the harbour to clients overseas. All existing surface infrastructure will be retained to service production from Forzando South inclusive of Kalabasfontein Project. The project has an estimated LOM of 17 years with mining is based on two CM sections.

The proposed project includes inter alia the following application processes with associated activities:

- New Integrated Environmental Authorisation (Scoping and Environmental Impact Report (S&EIR)) for:
  - Proposed new mining area extension.
- Water Use License (WUL) for:
  - Mining activities beneath wetland areas; and
  - Dewatering of mining area.
- Section 102 Amendment:
  - Revised Mine Works Programme to include proposed mine extension; and
  - Revised consolidated EMPR to include proposed mine extension.
- NEMA EMPR Amendment:
  - The existing Forzando South EMPR will need to be amended to include the extension onto the Kalabasfontein Area.

## 1.5 LISTED ACTIVITIES APPLICATION:

The proposed project must be authorized in terms of a number pieces of South African environmental legislation, namely:

- The Mineral and Petroleum Resources Development Act (MPRDA, Act No. 28 of 2002);
- The National Environmental Management Act (NEMA, Act No. 107 of 1998);

Where relevant, these pieces of core legislation stipulate the required studies, reports and legal processes to be conducted and the results thereof submitted to the relevant authorities for approval prior to commencement. It is anticipated that the following listed activities and associated approvals will be required:

- Environmental Authorisation (EA) in terms of the 2014 NEMA EIA regulations (as amended):
  - GNR983 Listing Notice 1: Activities 9, 24, 27, 45, 46.
  - GNR984 Listing Notice 2: Activities 11, 16, 17
- Water Use License (WUL) in terms of the NWA (Section 21 water uses): Section 21 a, c, g, l, and j.
- Amendment to existing EMPR and Mine Works Program in terms of the MPRDA (Section 102):

The applicability of each of these listed activities (or the requirement for any additional listed activities) will be assessed during the initial Authority consultation process as well as during the scoping phase. Further other environmental permitting requirements may be identified during the process- this public consultation process serves as an integrated process as required for all the relevant permits, authorisations, and licenses.

## **1.6 IDENTIFICATION AND ASSESSMENT OF IMPACTS ASSOCIATED WITH THESE ACTIVITIES:**

Potential impacts resulting from the proposed project may include inter alia:

- Impacts on surface water resources;
- Impacts on groundwater resources;
- Potential impacts on wetlands and aquatic ecology;
- Impacts of land use activities;
- Potential environmental pollution;
- Impacts on heritage and fossil resources;
- Impacts on health and safety;
- Impacts on air quality;
- Noise impacts;
- Blasting impacts; and
- Social impacts.

The above-mentioned impacts should not be construed as the only impacts that will be identified during the course of the EIA. Based on public consultation, specialist input and further detailed assessments, additional impacts will likely be identified and assessed.

All potential impacts will be identified and assessed following an impact assessment methodology guided by the requirements of the NEMA EIA Regulations (2014). The broad approach to the significance rating methodology is to determine the environmental risk (ER) by considering the consequence (C) of each impact (comprising Nature, Extent, Duration, Magnitude, and Reversibility) and relate this to the probability/likelihood (P) of the impact occurring. This determines the environmental risk. In addition, other factors including cumulative impacts, public concern, and potential for irreplaceable loss of resources, are used to determine a prioritisation factor (PF) which is applied to the ER to determine the overall significance (S).

Furthermore, based on the identified impacts and their ratings, mitigation and management measures are recommended for the applicant and these are included in an Environmental Management Programme (EMPR) towards ensuring that any negative impacts that cannot be avoided are minimised and managed in a manner that is not detrimental to the environment, and positive impacts maximised.

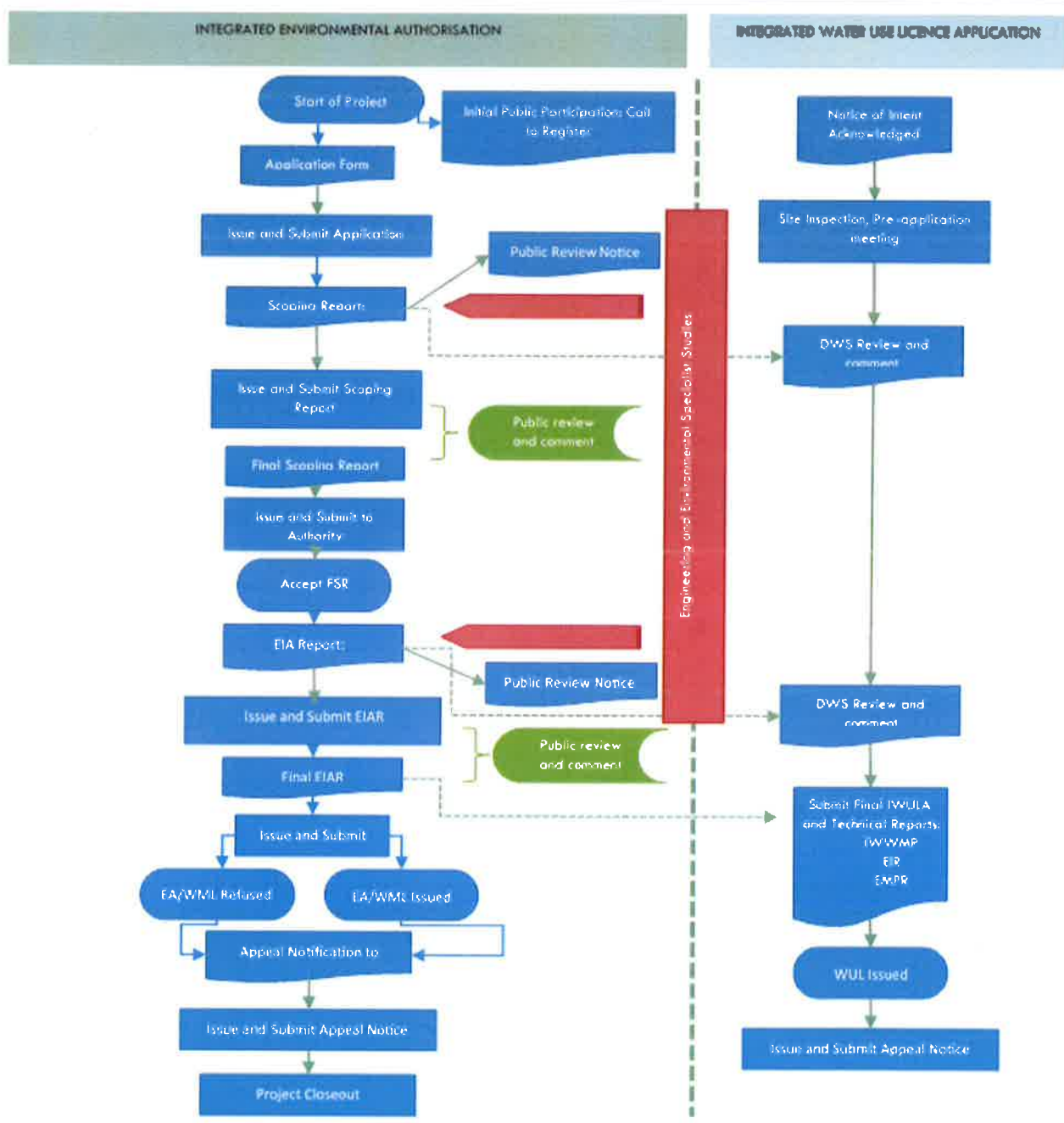


Figure 2: Typical Integrated EIA Process.

### 1.7 HOW TO GET INVOLVED:

Should you feel that you may be interested in or affected by this project, it is essential that you register as an Interested and Affected Party (I&AP) in which case you will be kept informed regarding the project and afforded an opportunity to participate in the process. Please note that only registered I&APs will be included in future correspondence regarding the project and associated updates.

You may register an I&AP in any of the following ways:

- Complete the attached I&AP registration form and questionnaire and return it to EIMS via email, fax or letter; or
- Submitting a request to register for this project via email, fax, post or telephone, addressed to the contact person and details stipulated below.



I&APs are also invited to submit any comments, queries or concerns regarding the project within the stipulated timeframes provided to the contact details below.

It is important to note that the EIA process is guided by legally stipulated timeframes and as such, in order to ensure your continued and valuable involvement in the project, we request that your registration requests and any preliminary comments are submitted to EIMS (contact details provided below) by no later than the 20<sup>th</sup> July 2018.

Furthermore, please be informed that the Environmental Scoping Report will be available for from 10 July to 10 August 2018, for the perusal and comment of all Interested and Affected Parties. A copy of the report will be available at the Bethal Public Library as well as on the EIMS website (<http://www.eims.co.za/public-participation>).

In order to present the findings of the Scoping Report to the public and to solicit comments on the report, a public meeting will be held on the 25th July 2018 at the Bethal Public Library (Danie Nortje Street, Contact Bettie Jordan, 017 624 3029) from 13h00 to 15h00. .

**EAP Contact Details:**

Environmental Impact Management Services (Pty) Ltd

Contact Person: Cheyenne Muthukarapan

EIMS Reference Number: 1244





Postal Address: P.O. Box 2083, Pinegowrie, 2123

Telephone: (011) 789 7170 / Fax: (011) 787 3059

E-mail: [kalabasfontein@eims.co.za](mailto:kalabasfontein@eims.co.za)

**Proposed Kalabasfontein Project Locality**  
1244 kalabasfontein EIA and WULA

**Legend**

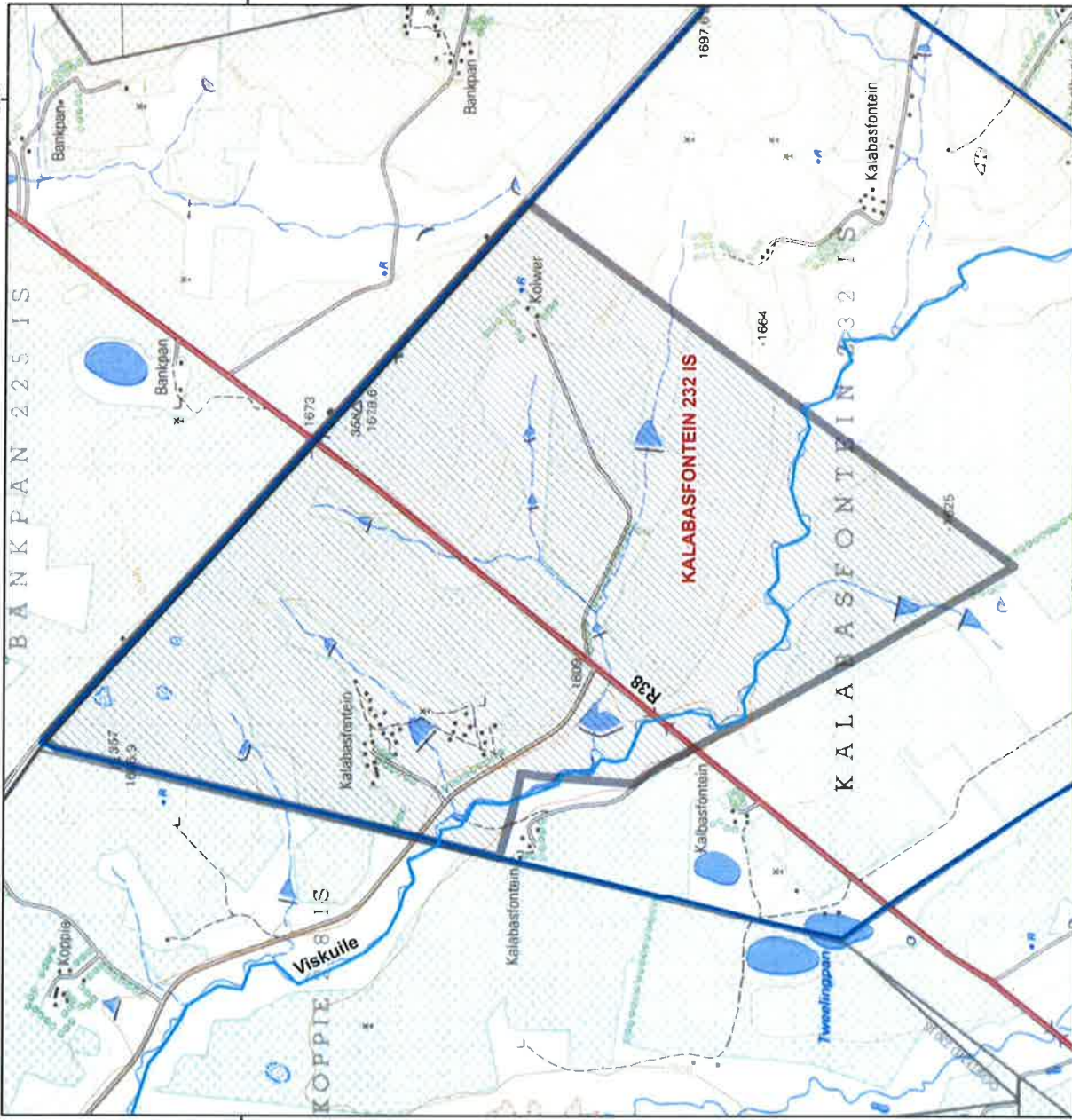
-  Proposed Project Area
-  Kalabasfontein 232 IS Boundary
-  Roads
-  Secondary Rivers



Data Sources:  
ENPAT 2000; CSG, ESRI; WR2012  
Coord System: GCS WGS 1984  
Datum: WGS 1984  
Units: Degree  
Ref: Kalabasfontein locality



Date: 2018/06/15  
EIMS Ref: 1244  
Compiled: PH  
Reviewed: LW  
Approved: LW



FigLocality Map.

**APPENDIX 4c**  
**PROOF OF REGISTERED POST AND SITE NOTICE DISTRIBUTION LIST**

**Environmental Impact Management Services (Pty) Ltd**

Registration number: 92/05927/07

Directors: T. Nkhahle, L. Whitlow, A. Smith

P.O. 83, Pinegowrie

2123, Africa

Telephone: (011) 789 7170

E-mail: [emasfontein@eims.co.za](mailto:emasfontein@eims.co.za)

Facsimile: (011) 787-3059

Web: <http://www.eims.co.za>



ENVIRONMENTAL  
IMPACT  
MANAGEMENT  
SERVICES

Site Notice distribution list to landowners and occupiers of land adjacent to the proposed Kalabasfontein Project in Mpumalanga.

Name Surname	Address	Contact Number	Signature	Property Details
P. Jordan	Bathal dibring	017 224 8009 Fax E-mail		
ing Sihali	Goven Mbeki	Telephone 076 618 6557 Fax E-mail	S.H.Sihali	
		Telephone Fax E-mail		
		Telephone Fax E-mail		
		Telephone Fax E-mail		

Disclaimer: EIMS wishes to advise and confirm that by completing this register, you acknowledge, understand and agree that all information provided, whether personal or otherwise, shall be placed in the public domain. EIMS will rely on the contact information provided herein to provide future project notifications, and communications. Any errors or omissions in the contact details provided may be the responsibility of the landowner/occupier. EIMS' ability to communicate with you in the future.

**List of REGISTERED Letters/Lys van GEREISTREERDE BRIEWE**

**Full tracking and tracing/Volledige volg en spoor**

**Name and Address of Sender/ Naam en adres van afsender: Environmental Impact Management Services (Pty) Ltd**

# 1244/cm

**Affix Track and Trace  
custom copy/ Plak Volf  
Spoor Klientafskrif**

M E Tau	National Department of Forestry and Fisheries	Agriculture Place, 20 Steve Biko Street	Pretoria	0002	REGISTERED LETTER (with a domestic insurance option) RD 970 190 694 ZA A BOOK COPY
Malebo Baloi	National Department of Rural Development and Land Affairs	Private Bag X833	Pretoria	0000	REGISTERED LETTER (with a domestic insurance option) RD 970 190 703 ZA A BOOK COPY
Pale Saila	National Department of Rural Development and Land Affairs	Private Bag X833	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 677 ZA A BOOK COPY
Jeffrey Maivha	National Department of Agriculture, Forestry & Fisheries	185 Langalibalele street, Old Mutual Building	Pietermaritzburg	3200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 685 ZA A BOOK COPY
Khayaletu Matrose	National Department of Mineral Resources	Private bag X59	Arcadia	0007	REGISTERED LETTER (with a domestic insurance option) RD 970 190 650 ZA A BOOK COPY
Jeanine Julies	National Department of Water and Sanitation	Private Bax X313	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 663 ZA A BOOK COPY
Judy Marx	SANRAL	P O Box 100410	Scottsville	3209	REGISTERED LETTER (with a domestic insurance option) RD 970 190 632 ZA A BOOK COPY
Casper Landman	SANRAL	P O Box 100410	Scottsville	3209	REGISTERED LETTER (with a domestic insurance option) RD 970 190 646 ZA A BOOK COPY
Busi Mlambo	SANRAL	P.O. Box 1100410	Scottsville	3202	REGISTERED LETTER (with a domestic insurance option) RD 970 190 615 ZA A BOOK COPY
Lizelle Stroh	South African Civil Aviation Authority	Private Bag X73	Halfway House	1685	REGISTERED LETTER (with a domestic insurance option) RD 970 190 629 ZA A BOOK COPY
Natasha Higgitt	SAHRA	P. O. Box 4637	Cape Town	8000	REGISTERED LETTER (with a domestic insurance option) RD 970 190 592 ZA A BOOK COPY
Daniel Marnewick	Birdlife South Africa	P. O. Box 515	Randburg	2125	REGISTERED LETTER (with a domestic insurance option) RD 970 190 601 ZA A BOOK COPY
Mark Anderson	Birdlife South Africa	P.O. Box 515	Randburg	2125	REGISTERED LETTER (with a domestic insurance option) RD 970 190 575 ZA A BOOK COPY
Haneline Smit	Birdlife South Africa	P.O. Box 515	Randburg	2125	REGISTERED LETTER (with a domestic insurance option) RD 970 190 589 ZA A BOOK COPY



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**Affix Track and Trace  
custom copy/ Plak Volf  
Spoor Klientafskrif**

Chris Galliers	Wildlife and Environment Society of South Africa (WESSA)	P.O.Box 394	Howick	3290	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 558 ZA A BOOK COPY
Rudzani Nemajuka	Wildlife and Environment Society of South Africa (WESSA)	PO Box 945	Ferndale	2160	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 561 ZA A BOOK COPY
Lourens Leeuwner	Endangered Wildlife Trust	Private Bag X11	Modderfontein	1645	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 535 ZA A BOOK COPY
Constant Hoogstad	Endangered Wildlife Trust	Private Bag X11	Modderfontein	1645	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 544 ZA A BOOK COPY
Shonisani Munzhedzi	National Department of Environmental Affairs	Private Bag X447	Pretoria	0001	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 513 ZA A BOOK COPY
Shirley Makhavhu	Transnet	P. O. Box 72501	Parkview	2122	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 527 ZA A BOOK COPY
Deidre Herbest	Eskom	P.O. Box 1091	Johannesburg	2001	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 495 ZA A BOOK COPY
John Geeringh	Eskom	P.O. Box 1091	Johannesburg	2001	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 500 ZA A BOOK COPY
Jacob Nkabinole	Victor Khanye Local Municipality	PO Box 06	Delmas	2210	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 473 ZA A BOOK COPY
Busisiwe Mabena	Victor Khanye Local Municipality	PO box 6	Delmas	2210	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 487 ZA A BOOK COPY
A Johnson	HMESSA	PO Box 20586, Del Judor Ext 4	Witbank	1044	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 456 ZA A BOOK COPY
A Tshivhandekano	Mpumalanga Department of Mineral Resources	Private Bag x7279	Emalaheni	1035	REGISTERED LETTER <i>(with a domestic insurance option)</i> RD 970 190 460 ZA A BOOK COPY



**List of REGISTERED Letters/Lys van GEREGISTREERDE BRIEWE**

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**Name and Address of Sender/ Naam en adres van afsender: Environmental Impact Management Services (Pty) Ltd**

**# 1244/cm**

**Affix Track and Trace custom copy/ Plak Volf Spoor Klientafskrif**

Y N Phosa	Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs	Private Bag X11219	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 439 ZA A BOOK COPY
Frans Krige	Mpumalanga Tourism and Parks Agency	Private Bag X11338	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 442 ZA A BOOK COPY
Cilia de Jesus	Mpumalanga Tourism and Parks Agency	Private Bag X11338	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 411 ZA A BOOK COPY
Speedy Mashilo	Mpumalanga Department of Human Settlement	Private Bag X11328	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 425 ZA A BOOK COPY
Gillion Mashego	Mpumalanga Department of Health	Private Bag X11285	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 399 ZA A BOOK COPY
Vusumuzi Shongwe	Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs	Private Bag X11219	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 408 ZA A BOOK COPY
Robert Davel	Mpumalanga Landbou/Agriculture	Postnet Suite 1869 Privaatsak X9013	Ermelo	2350	REGISTERED LETTER (with a domestic insurance option) RD 970 190 371 ZA A BOOK COPY
Sifiso Mkhize	National Department of Water and Sanitation	Private Bax X314	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 354 ZA A BOOK COPY
Mokgadi Maloba	Mpumalanga Department of Water and Sanitation	Private Bag x313	bronkhorstspuit	1020	REGISTERED LETTER (with a domestic insurance option) RD 970 190 368 ZA A BOOK COPY
SJ Manzini	Mpumalanga Department of Public Works, Roads and Transprort	Private Bag x11310	mbombela	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 337 ZA A BOOK COPY
Kate Katane	Sanparks	Kruger NP, PO Box 176	Skukuza	1350	REGISTERED LETTER (with a domestic insurance option) RD 970 190 345 ZA A BOOK COPY
Komila Knarasoo	Mpumpalanga Tourism and Parks Agency	Private Bag X11338	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 310 ZA A BOOK COPY
Busi Shiba	Mpumalanga Department of Social Development	Number 7 Government Boulevard, Building number 6, 1st and 2nd floor, Riverside Park Extension 3	Nelspruit	1201	REGISTERED LETTER (with a domestic insurance option) RD 970 190 323 ZA A BOOK COPY
		Private Bag			REGISTERED LETTER (with a domestic insurance option) RD 970 190 297 ZA
<b>Number of Letters Posted: 14</b>		<b>Signature of Accepting Officer</b>		<b>Date Stamp</b>	

**List of REGISTERED Letters/Lys van GEREISTREERDE BRIEWE**

**Full tracking and tracing/Volledige volg en spoor**

**Name and Address of Sender/ Naam en adres van afsender: Environmental Impact Management Services (Pty) Ltd**

# 1244/cm

**Affix Track and Trace custom copy/ Plak Volf Spoor Klientafskrif**

Bheki Nyathikazi	Department of Agriculture, Rural Development and Land Administration	Number 7 Government Boulevard, Building number 6, 1st and 2nd floor, Riverside Park, Extension 3	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) <del>RD 970 190 306 ZA</del> A BOOK COPY		
Agriba Sibanyoni	SANRAL Northern Region	Private Bag X17	Lynwood Ridge	0040	REGISTERED LETTER (with a domestic insurance option) RD 970 190 270 ZA A BOOK COPY		
Lungile Motsisi	Eskom	P. O. Box 1091	Johannesburg	2000	REGISTERED LETTER (with a domestic insurance option) RD 970 190 283 ZA A BOOK COPY		
Nsumbulana Mtsenga	Transnet	P.O. Box 72501	Parkview	2122	REGISTERED LETTER (with a domestic insurance option) RD 970 190 252 ZA A BOOK COPY		
Carolyn Verdoorn	Birdlife South Africa	P.O. Box 515	Randburg	2125	REGISTERED LETTER (with a domestic insurance option) RD 970 190 266 ZA A BOOK COPY		
Jonas Els	Afgri	P.O. Box 11054	Centurion	0046	REGISTERED LETTER (with a domestic insurance option) RD 970 190 235 ZA A BOOK COPY		
Hans van Der Merwe	Agri SA	P.O. Box 1508	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 249 ZA A BOOK COPY		
N.L. Bosman	Agri Mpumalanga	P.O. Box 619	Ermelo	2350	REGISTERED LETTER (with a domestic insurance option) RD 970 190 218 ZA A BOOK COPY		
Lemson Betha	Department of Agriculture, Forestries and Fisheries	P.O. Box 435	Ferndale	2160	REGISTERED LETTER (with a domestic insurance option) <del>RD 970 190 221 ZA</del> A BOOK COPY		
Anique Greyling	Endangered Wildlife Trust	Private Bag X11	Parkview	2122	REGISTERED LETTER (with a domestic insurance option) RD 970 190 195 ZA A BOOK COPY		
Ursula Franke	Endangered Wildlife Trust	Private Bag X9013	Ermelo	2350	REGISTERED LETTER (with a domestic insurance option) RD 970 190 204 ZA A BOOK COPY		
Jann Jackson	WESSA	P.O. Box 785788	Sandton	2146	REGISTERED LETTER (with a domestic insurance option) RD 970 190 178 ZA A BOOK COPY		
Avhadakali Mamatsharaga	SANBI - Nelspruit	P.O. Box 1024	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 181 ZA A BOOK COPY		



**List of REGISTERED Letters/Lys van GEREISTREERDE BRIEWE**

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**Name and Address of Sender/ Naam en adres van afsender: Environmental Impact Management Services (Pty) Ltd**

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**Affix Track and Trace custom copy/ Plak Volf Spoor Klientafskrif**

Anthea Stevens	SANBI - Pretoria	Private Bag X101	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 155 ZA A BOOK COPY
Millicent Solomons	National Department of Environmental Affairs	Private Bag X447	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 164 ZA A BOOK COPY
Molese Morokane	National Department of Water and Sanitation	Private Bag X313	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 133 ZA A BOOK COPY
Annette Stoltz	National Department of Agriculture, Forestry and Fisheries	Private Bag X120	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) <del>RD 970 190 147 ZA</del> A BOOK COPY
Mumsy Gazide	National Dept of Agriculture, Forestry and Fisheries	Private Bag X120	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 190 116 ZA A BOOK COPY
Johann M. van Aswegen	Mpumalanga Department of Water Affairs	Private Bag X11259	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 120 ZA A BOOK COPY
M. Mahunonyane	Mpumalanga Department of Water Affairs	Private Bag X11259	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 093 ZA A BOOK COPY
Thokozani Metiso	Mpumalanga Department of Agriculture, Rural Development and Land Administration	P.O. Box 2777	Ermelo	2350	REGISTERED LETTER (with a domestic insurance option) RD 970 190 102 ZA A BOOK COPY
G. Xaba	Mpumalanga Department of Agriculture, Rural Development and Land Administration	Private Bag X11219	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 076 ZA A BOOK COPY
Komila Knarasoo	Mpumalanga Tourism and Parks Agency	Private Bag X11338	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 080 ZA A BOOK COPY
Frans Krige	Mpumalanga Tourism and Parks Agency	Private Bag X11338	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 059 ZA A BOOK COPY
Koos De Wet	Mpumalanga Parks Board	Private Bag X1088	Lydenburg	1120	REGISTERED LETTER (with a domestic insurance option) <del>RD 970 190 062 ZA</del> A BOOK COPY
S.A. Mbatha	Mpumalanga Department of Roads & Transport	Private Bag X4018	Kwa-Mhlanga	1022	REGISTERED LETTER (with a domestic insurance option) RD 970 190 031 ZA A BOOK COPY
Jenna Lavin	SAHRA Mpumalanga	P.O. Box 4637	Cape Town	8000	REGISTERED LETTER (with a domestic insurance option) RD 970 190 045 ZA A BOOK COPY

List of REGISTERED Letters/Lys van GEREISTREERDE BRIEWE

Full tracking and tracing/Volledige volg en spoor

Name and Address of Sender/ Naam en adres van afsender: Environmental Impact Management Services (Pty) Ltd

# 1244/cm

Affix Track and Trace custom copy/ Plak Volf Spoor Klientafskrif

					Affix Track and Trace custom copy/ Plak Volf Spoor Klientafskrif
Zithini Dlamini	Mpumalanga Department of Land Affairs	Private Bag X11305	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 190 014 ZA A BOOK COPY
Martha Mokonyane	DMR Emalahleni	Private Bag X7279	Emalahleni	1035	REGISTERED LETTER (with a domestic insurance option) RD 970 190 028 ZA A BOOK COPY
The Director	Mpumalanga Tourism and Parks Agency	Private Bag X11338	Nelspruit	1201	REGISTERED LETTER (with a domestic insurance option) RD 970 189 991 ZA A BOOK COPY
Mr Robert	Agri Mpumalanga	P.O. Box 619	Ermelo	2350	REGISTERED LETTER (with a domestic insurance option) RD 970 190 005 ZA A BOOK COPY
Koos Pretorius	Mpumalanga Lakes District Protection Group	P.O. Box 201	Belfast	1100	REGISTERED LETTER (with a domestic insurance option) RD 970 189 974 ZA A BOOK COPY
Okwethu-kuhle Fakude	Mpumalanga Department of Economic Development, Environment and Tourism	Private Bag X11215	Nelspruit	1200	REGISTERED LETTER (with a domestic insurance option) RD 970 189 988 ZA A BOOK COPY
Dan Metlana Gorbachev Mashitsho	National Department of Water and Sanitation	Private Bag X313	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 189 957 ZA A BOOK COPY
Bomo Edna Molewa	National Department of Environmental Affairs	Private Bag X 447,	Pretoria	0002	REGISTERED LETTER (with a domestic insurance option) RD 970 189 965 ZA A BOOK COPY
MJ Nkabinde	Department of Mineral Resources	Private Bag X7279	Emalaheni	1035	REGISTERED LETTER (with a domestic insurance option) RD 970 189 930 ZA A BOOK COPY
N Mabaso	SANRAL	P O Box 100411	Scottsville	3209	REGISTERED LETTER (with a domestic insurance option) RD 970 189 943 ZA A BOOK COPY
Karen Marx	WESSA Head Office Conservation Dept	P.O.Box 945	Ferndale	2160	REGISTERED LETTER (with a domestic insurance option) RD 970 189 912 ZA A BOOK COPY
Nomfundo Ndolela	National Department of Rural Development and Land Affairs	Private Bag X832	Pretoria	0001	REGISTERED LETTER (with a domestic insurance option) RD 970 189 926 ZA A BOOK COPY
Marritte Liefferink	Federation for a Sustainable Environment	Posnet Suite 87, Private Bag X033	Rivonia	2128	REGISTERED LETTER (with a domestic insurance option) RD 970 189 890 ZA A BOOK COPY



**APPENDIX 4d**  
**SITE NOTICES AND PROOF OF PLACEMENT**

## PROOF OF SITE NOTICE PLACEMENT

Notices were placed in English and Afrikaans at the following key locations surrounding the project area.



Figure 1 Site Notice 1\_ Site Notice placed along the R38 (-26.417965, 29.499669)



Figure 2 Site Notice 2\_ Site Notice placed along the R38 heading towards Bethal (-26.370516, 29.524837)



Figure 3 Site Notice \_ Site Notice placed along the R38 to Hendrina (-26.356726, 29.535507)



Figure 4 Site Notice 4\_ Site Notice placed along the R38 towards Carolina (-26.323760, 29.561850)



Figure 5 Site Notice 5\_ Site Notice placed along the R38 towards Carolina (-26.277874, 29.596688)

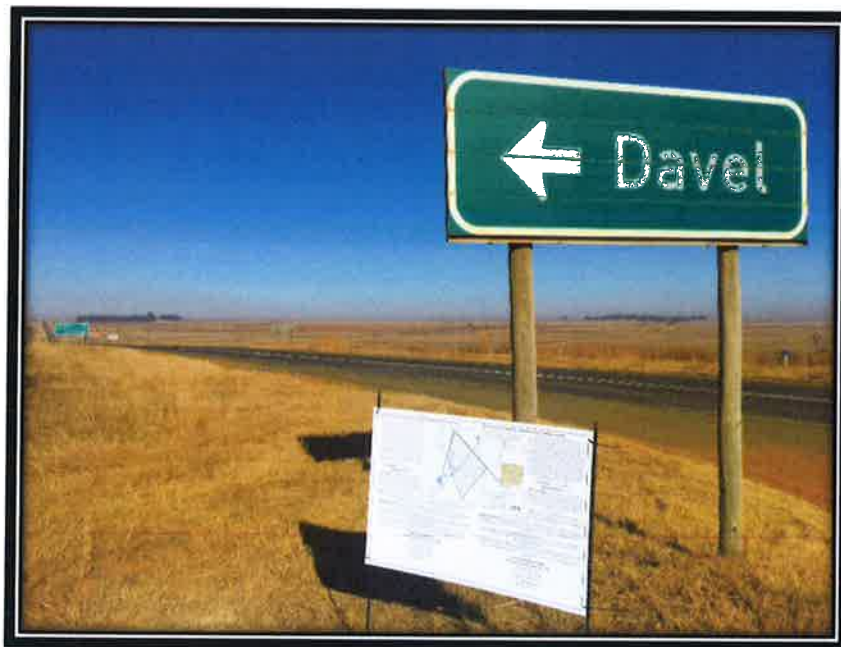


Figure 6 Site Notice 6\_ Site Notice placed along the route to Davel (-26.275791, 29.598444)



Figure 7 Site Notice 7\_ Site Notice placed along route to Davel (-26.281983, 29.612718)



Figure 8 Site Notice 8\_ Site Notice placed at along a dirt road between Bethal and Hendrina (-26.264367, 29.656572)





Figure 9 Site Notice 9: Site notice placed at the intersection of the R38 and the R542 (-26.180015, 29.677785)



Figure 10 Site Notice 10\_ Site Notices placed at along the R38 towards Weltevreeden (-26.270440, 29.602218)



Figure 11 Site Notice 11\_ Site Notices placed along the R38 (-26.276546, 29.597750)



Figure 12 Site Notice 12\_ Site Notice placed along a dirt road along the project area (-26.253334, 29.5603000)



Figure 13 Site Notice 13\_ Site Notice placed along dirt road towards Forzando North Coal entrance (-26.247561, 29.548251)



Figure 14 Site Notice 14\_ Site Notice placed at the entrance to Forzando North Coal (-26.247561, 29.548251)



Figure 15 Site Notice 15\_ Site Notice placed along dirt road towards to mine (-26.25887, 29.585649)



Figure 16 Site Notice 16\_ Site Notice placed along R38 towards Bethal (-26.296165, 29.583424)



Figure 17 Site Notice 17\_ Site Notice placed at the entrance to the Forzando South Coal (-26.286739, 29.527917)



Figure 18 Site Notice 18\_ Site Notice placed at entrance to Forzando South Coal (-26.286446, 29.528259)



Figure 19 Site Notice 19\_ Site Notice placed along dirt road to Forzando South Coal (-26.294645, 29.539004)



Figure 20 Site Notice 20\_ Site Notice placed at intersection between Carolina and Schurvekop (-26.323620, 29.561547)

## PROOF OF SITE POSTER PLACEMENT

Notices were placed in English and Afrikaans at the following key locations surrounding the project area.



Figure 1 Site Poster 1\_ Site Poster, notification hand outs and BIDs placed at Bethal Public Library (-26.456054, 29.460886)



Figure 2 Site Poster 2\_ Site Poster, notification hand outs and BIDs placed at Govan Mbeki Municipality in Bethal (-26.456054, 29.460886)

**APPENDIX 4e**  
**PROOF OF ADVERTISEMENTS**



# Bekende Moolman Mentz sterf op 91

Sanette Botha

Mnr. Moolman Mentz is Donderdag, 14 Junie oorlede.

Hy is 91 jaar gelede gebore en het sy skoolloopbaan op Morgenon begin waarna hy tot in die destydse standerd 6 ondergrig by die Rooiwal-plaasskool in die Amsterdam-omgewing ontvang het. Die res van sy hoërskoolloopbaan het hy aan Ermelo Hoërskool voltooi.

Omdat hy ná matriek op 16-jarige ouderdom te jonk was om universiteit toe te gaan, het hy vir 'n jaar by die



Mnr. Moolman Mentz is op 91-jarige ouderdom oorlede.

koelrankfabriek op Ermelo gewerk.

Daarna het hy sy regstudies aan die Universiteit van Stellenbosch voltooi.

Mnr. Mentz was 'n kranige rugbyspeler en het vir Gamiison (die latere weermag) gespeel en het ook vir Noord-Transvaal op die rugbyveld uitgedraf. Hy was in 1945 die senter vir die Suidoos-Transvaalse Subunie en was ook op die bestuur van die Uile.

Ná sy studies is hy aangestel as dosent by die nutgestigde Militêre Akademie op Saldanha. Dié akademie is toe geskuif

na Robertshoogte, later bekend as Voortrekkerhoogte in Pretoria, waar hy klas in militêre reg gegee het. Hy het ook deelyds gepraktiseer as junior advokaat.

Mnr. Mentz was met Mara getroud en twee seuns en drie dogters is uit die huwelik gebore.

Hy het in 1971 uit die balie bedank en het na Ermelo teruggekeer waar die egpaar verskeie ondernemings bestuur het.

Mnr. Mentz het ook in dié tyd op, onder andere, die stadsraad, die publikasieraad, die hospitaalraad, en ander raad gedien.

Hy is drie jaar later terug na die balie en het vanaf Ermelo gepraktiseer waar hy net diamantsake hanteer het en ook betrokke was by die herskrywing van die diamantwet.

Hy was vir sowat vyf jaar by die Staat teen Skentologie-saak betrokke waartydens hy vir die skentoloë opgetree het.

Sy politieke belangstelling was altyd daar en nadat hy weer eens die toga neergelê het, het hy hom tot die aktiewe politiek begeef.

Hy was in 1986 Ermelo se kandidaat vir die Konserwatiewe Party en Lid van die Volksraad vir twee termyn tot 1994.

Hy was tot in 1999 lid van die Mpumalanga-wetgewer waarna hy uit aktiewe politiek getree het.

Mnr. Mentz het hom daarna op die familieplaas besig gehou met Gelvich-beeste wat toe 'n nuwe ras in Suid-Afrika was en het later oorgeskakel na die Hugenote-beesras waarmee daar vandag nog op dié plaas geboer word.

Sowat drie jaar gelede het hy en sy eggenote op die dorp kom woon waar hulle tot en met sy afsterwe gewoon het en waar m. Mentz steeds sal woon.

Hy word ook oorleef deur sy vyf kinders, 12 kleinkinders en 11 agterkleinkinders.



Onwettige vullisterreine raak 'n groot probleem in en om Ermelo. Die munisipaliteit doen 'n beroep op alle inwoners om van die aangewese terreine gebruik te maak.

## Onwettige stortingsterreine hou gevaar in vir die omgewing

René Joubert

Inwoners van Ermelo het onlangs die Hoëvelde gekontak en hul misnoeë uitgespreek oor die toename in onwettige stortingsterreine.

"Ons sien daagliks mense wat hul vullis langs die pad kom aflaai," het 'n plaaslike inwoner wat anoniem wou bly, gesê.

Sommige inwoners het hul ontevredenheid uitgespreek omdat hulle meen dat die munisipaliteit geen poging aanwend om teen skuldiges op te tree nie.

Mskuligwa Munisipaliteit het vroeër vanjaar 'n veldtog geleëds om Ermelo skoon te hou en ontslae te raak van onwettige stortingsterreine. Werkers van die Community Workers Program het op 7 Maart onwettige stortingsplekke opgeruim.

Die munisipale woordvoerder, mnr. Mandla Zwane, het gesê die munisipaliteit se pogings kan slegs 'n sukses wees as die gemeenskap saamwerk.

Onwettige stortingsterreine besoedel nie net die omgewing nie, maar hou ook ernstige gesondheidsgevaar vir die gemeenskap in. "Ons doen 'n beroep op alle inwoners om die inisiatiewe te ondersteun deur vullis in die aangewese gebiede vir vullisversameling te plaas."

Mnr. Zwane het gewaarsku dat optrede teen inwoners ingestel sal word wat die munisipale verordeninge wat afvalstorting reguleer oortree.

"Artikel 22 van die munisipale verordeninge van vullis (vaste afval) verbied die onwettige storting van afval," het hy bygevoeg.

### ENVIRONMENTAL NOTIFICATION: ENVIRONMENTAL LICENSING PROCESSES AND OPPORTUNITY TO PARTICIPATE

Notice is given in terms of Chapter 6 of the 2014 Environmental Impact Assessment Regulations, promulgated under Section 24(5) of the National Environmental Management Act (Act No. 107 of 1998 - NEMA), of an application for Environmental Authorisation (EA), Water Use License (WUL)(National Water Act No 36 of 1998) and an amendment application to an existing Environmental Management Programme (EMPR) and Mine Works Program (MWP) (Section 102 of the Minerals and Petroleum Resources Development (Act No 28 of 2002-MPRDA)) for the proposed Kalabasfontein Project. The project includes the extension of underground mining operations at Forzando South Coal Mine onto the adjacent Kalabasfontein Farm. The need for a Waste Management License (WML- National Environmental Management Waste Act No 59 of 2008) and other environmental legal requirements will be identified and communicated to registered interested and affected parties (I&APs) during the Environmental Impact Assessment (EIA) Process. A full Scoping and EIA process will be conducted.

Name of Applicant: Forzando Coal Mines (Pty) Ltd

EIMS Reference Number: 1244

Nature of Activity: Forzando Coal Mines (Pty) Ltd wishes to extend the current underground mining activities at Forzando South coal mine (under Mining Right MR380) by inclusion of contiguous areas which are held under Prospecting Rights 1035PR and 1170PR. The proposed extension does not intend to develop new surface infrastructure on the extension areas. There will be a need for two new ventilation shafts to be located within the Forzando South mining area.

Location: The project falls within the Msukaligwa Local Municipality, Mpumalanga. The project area covers Portions 7, 8, 11, 13, and RE of the Farm Kalabasfontein 232 IS. The mining area is situated approximately 20km north of Bethal and 20km east of Ga-Nala (Kriel). Centre Point of site: 26° 19,852'S and 29° 34,407'E

Registration and Comment: As a potential I&AP, you are invited to register and comment on the project. Should you have any comments or concerns regarding the project, or should you require additional information, please contact EIMS telephonically, or in writing by no later than 20 July 2018 using the contact details below. Please include the project reference number (1244) in all correspondence.

Furthermore, please be informed that the Environmental Scoping Report will be available for from 10 July to 10 August 2018, for the perusal and comment of all Interested and Affected Parties. A copy of the report will be available at the Bethal Public Library as well as on the EIMS website (<http://www.eims.co.za/public-participation>). In order to present the findings of the Scoping Report to the public and to solicit comments on the report, a public meeting will be held on the 25th July 2018 at the Bethal Public Library (Danie Nortje Street, Contact Bettie Jordan, 017 624 3029) from 13h00 to 15h00.

Furthermore, please note that only registered I&APs will be informed of any future project information and participation opportunities.

Contact: Cheyenne Muthukarapan  
Email: kalabasfontein@eims.co.za

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### OMGEWINGS KENNISGEWING: OMGEWINGS LISENSIERINGS PROSESSE EN 'N GELEENTHEID VIR DEELNAME

Hiermee word kennis gegee ingevolge Hoofstuk 6 van die 2014 Omgewingsimpakstudie (EIA) regulasies, uitgevaardig kragtens artikel 24 (5) van die Wet op Nasionale Omgewingsbestuur (Wet No. 107 van 1998 - NEMA), vir 'n aansoek om Omgewingsmagtiging (EA), Watergebruiklisensie (WUL) (Nasionale Waterwet No 36 van 1998) en 'n wysiging aansoek tot 'n bestaande Omgewingsbestuursplan (EMP) en 'n Myn Werke Program (MWP) Artikel 102 van die Minerale en Petroleum Hulpbronontwikkeling (Wet No 28 van 2002 - MPRDA) vir die voorgestelde Kalabasfontein Projek. Die projek sluit in die uitbreiding van die ondergrondse mynbedrywighede by Forzando Suid Steenkoolmyn tot op die aangrensende Kalabasfontein Plaas. Die behoefte aan 'n Afvalbestuurslisensie (WML- Nasionale Omgewingsbestuur Afval Wet No 59 van 2008) en ander omgewings wetlike vereistes sal geïdentifiseer en gekommunikeer word aan die geregistreerde belangstellende en geaffekteerde partye (B & GP) deur die loop van die Omgewingsimpakstudie (EIA) Proses. 'n Volledige Omvangsbepalings- en Omgewingsimpakstudie proses sal gedoen word.

Naam van aansoeker: Forzando Coal Mines (Pty) Ltd

EIMS Verwysingsnommer: 1244

Aard van die aktiwiteit: Forzando Coal Mines (Pty) Ltd wil die huidige ondergrondse mynbedrywighede by Forzando Suid-steenkoolmyn (onder mynreg MR380) uitbrei deur die insluiting van die aangrensende gebiede wat gehou word onder prospektoregte 1035PR en 1170PR. Die voorgestelde uitbreiding is nie van plan om nuwe oppervlak infrastruktuur op die uitbreidings gebiede te ontwikkel nie. Daar sal 'n behoefte wees vir twee nuwe ventilasie skagte binne die myngebied van Forzando Suid.

Ligging: Die projekvalbinne die Msukaligwa Plaaslike Munisipaliteit, Mpumalanga. Die projek area dek Gedeeltes 7, 8, 11, 13, en RE van die Plaas Kalabasfontein 232 IS. Die myngebied is ongeveer 20km noord van Bethal en 20km oos van Ga-Nala (Kriel). Middelpunt van die erf: 26° 19,852'S en 29° 34,407'E

Registrasie en Kommentaar: As 'n potensiele B & GP word u uitgenooi om te registreer en kommentaar te lewer aangaande die projek. Indien u enige kommentaar of bekommernisse het met betrekking tot die projek, of as u verdere inligting verlang, kan u EIMS telefonies of skriftelik kontak teen nie later as 20 Julie 2018 deur gebruik te maak van die kontak besonderhede hieronder. Sluit asseblief die projekverwysingsnommer (1244) in alle korrespondensie in.

Verder, wees asseblief ingelig dat 'n Omvangsbepalings verslag beskikbaar sal wees van 10 Julie tot 10 Augustus 2018 vir hersiening en kommentaar van alle B & GPe. 'n Harde kopie van die verslag sal beskikbaar wees by die Bethal Biblioteek (Danie Nortje Straat, kontak: Bettie Jordaan op 017 624 3029) sowel as op die EIMS webtuiste (<http://www.eims.co.za/public-participation>).

Ten einde, die bevindinge van die Omvangsbepalingsverslag aan die publiek te bied, en om die kommentaar op die verslag te verkry, sal 'n publieke vergadering gehou word op 25 Julie 2018 by Bethal Biblioteek, Danie Nortje Straat (017 624 3029, Bettie Jordaan) vanaf 13h00 tot 15h00.

Verder, neem asseblief kennis dat slegs geregistreerde B & GPe in kennis gestel sal word van enige verdere projek inligting en deelname geleentehede.

Kontakpersoon: Cheyenne Muthukarapan  
E-pos: kalabasfontein@eims.co.za  
EIMS Verwysingsnommer: 1244

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# OUR SCHOOLS



Laerskool Trichardt se netbalspan is Mpumalanga-wenners

**TRICHARDT** - Laerskool Trichardt se 0/13-netbalspan het Saterdag, 9 Junie die Mpumalanga-netballiga vir medium skole vir die derde agtereenvolgende jaar gewen. Voor is Jana Rosslee, Machaela van der Merwe en KG Buthelezi. Agter is me. Retha Spies (afriqter), Nomvula Mabuza, Chadé Erasmus, Maretha Louwrens, Suné Stander en Lebogang Rakgalakana.



HM Swart se 0/11-span is Mpumalanga-wenners

**BETHAL** - Laerskool HM Swart se 0/11-rugbyspan het Dinsdag, 5 Junie by HTS Ligbron op Ermelo aan die eindronde van die Mpumalanga-liga vir medium skole deelgeneem en gewen. Hulle is dus die nuwe Mpumalanga-kampioene. Voor is Sizwe Madonsela, Lwizi Skhosana, Marthinus Scheepers, PJ Kirsten, Kegan Berry, Wikus Coller, Zander Coetzee, Lesedi Moselani, GP Jansen van Rensburg en Mhokozisi Mthombeni. Agter is Samuel Daniel, Ulrie Badenhorst, Lindokuhle Mahtangu, Waylon Meyer, Anro Jordaan, Ikhona Masango, Siyabulela Malango, Zander Jansen van Rensburg en Lindelani Mthumunye.



Seuns haal Mpumalanga-rugbyspan

**BETHAL** - Dié leerdere van Jim van Tonderskool is vir die LSEN-Mpumalanga-rugbyspan gekies. Voor is Sihabiso Sokela, Lethu Maseko, Siyabonga Nhlalathe, Ruan Geimaert en Nicol Kubayi. Agter is mnr. Wickus van Heerden (afriqter), Sibusiso Maseko, Maxwell Nkosi, Stephan Slabberts, JP van Wyk en Shaun Friend.

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**RIDGE TIMES** Echo/RidgeTimes Newspaper  
[www.ridgetimes.co.za](http://www.ridgetimes.co.za)

### ENVIRONMENTAL NOTIFICATION: ENVIRONMENTAL LICENSING PROCESSES AND OPPORTUNITY TO PARTICIPATE

Notice is given in terms of Chapter 6 of the 2014 Environmental Impact Assessment Regulations, promulgated under Section 24(5) of the National Environmental Management Act (Act No. 107 of 1998 – NEMA), of an application for Environmental Authorisation (EA), Water Use License (WUL/National Water Act No 36 of 1998) and an amendment application to an existing Environmental Management Programme (EMPR) and Mine Works Program (MWP) (Section 102 of the Minerals and Petroleum Resources Development (Act No 28 of 2002-MPRDA) for the proposed Kalabasfontein Project. The project includes the extension of underground mining operations at Forzando South Coal Mine onto the adjacent Kalabasfontein Farm. The need for a Waste Management License (WML- National Environmental Management Waste Act No 59 of 2008) and other environmental legal requirements will be identified and communicated to registered interested and affected parties (I&APs) during the Environmental Impact Assessment (EIA) Process. A full Scoping and EIA process will be conducted.

**Name of Applicant:** Forzando Coal Mines (Pty) Ltd

**EIMS Reference Number:** 1244

**Nature of Activity:** Forzando Coal Mines (Pty) Ltd wishes to extend the current underground mining activities at Forzando South coal mine (under Mining Right MR380) by inclusion of contiguous areas which are held under Prospecting Rights 1035PR and 1170PR. The proposed extension does not intend to develop new surface infrastructure on the extension areas. There will be a need for two new ventilation shafts to be located within the Forzando South mining area.

**Location:** The project falls within the Msukaligwa Local Municipality, Mpumalanga. The project area covers Portions 7, 8, 11, 13, and RE of the Farm Kalabasfontein 232 IS. The mining area is situated approximately 20km north of Bethal and 20km east of Ga-Nala (Kriel). Centre Point of site: 26° 19.852'S and 29° 34.407'E

**Registration and Comment:** As a potential I&AP, you are invited to register and comment on the project. Should you have any comments or concerns regarding the project, or should you require additional information, please contact EIMS telephonically, or in writing by no later than 20 July 2018 using the contact details below. Please include the project reference number (1244) in all correspondence.

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Furthermore, please note that only registered I&APs will be informed of any future project information and participation opportunities.

**Name and Contact Details of EAP:**  
 Email: [kalabasfontein@eims.co.za](mailto:kalabasfontein@eims.co.za)



**APPENDIX 5****PROOF OF APPLICATION SUBMISSION**

No other authorisations are required at this stage and therefore this application forms the only application at this time.

**APPENDIX 6**  
**PROOF OF PAYMENT**



## NOTIFICATION OF PAYMENT

To Whom It May Concern:

First National Bank hereby confirms that the following payment instruction has been received:

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Date Actioned : 28 Jun 2018  
Time Actioned : 11:14:23  
Trace ID : VODSRVQ2SM6D

### Payer Details

Payment From : \*Environmental Impact M Ment Serv (pty)  
Cur/Amount : 10,000.00

### Payee Details

Recipient/Account No : . . 164275  
Name : Department of Minera  
Bank : ABSA Bank  
Branch Code : 632005  
Reference : MP380MR

END OF NOTIFICATION

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To authenticate this Payment Notification, please visit the First National Bank website at [fnb.co.za](http://fnb.co.za), select Contact Us+Tools and then select "Verify Payment" and follow the on-screen instructions.

Our customer (the payer) has requested FirstRand Bank Limited to send this notification of payment to you. Should you have any queries regarding the contents of this notice, please contact the payer. FirstRand Bank Limited does not guarantee or warrant the accuracy and integrity of the information and data transmitted electronically and we accept no liability whatsoever for any loss, expense, claim or damage, whether direct, indirect or consequential, arising from the transmission of the information and data.