REPORT NO 1

SIPHUMELELE 1 MINE ADDITIONAL VENTILATION SHAFT

ASSESSMENT REPORT FOR AMENDMENT OF EXISTING ENVIRONMENTAL AUTHORISATION

PUBLIC

OCTOBER 2016

WSP | PARSONS BRINCKERHOFF

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Sibanye Rustenburg Platinum Mines Limited

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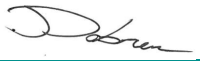
Signature				
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WAIVER

Purpose and basis of preparation of this Report

*This Draft Environmental Management Programme Report for Siphumelele 1 Mine Additional Ventilation Shaft has been prepared by WSP Environmental Proprietary Limited (**WSP**) on behalf and at the request of* the ***Client**.*

Unless otherwise agreed by us in writing, we do not accept responsibility or legal liability to any person other than the Client for the contents of, or any omissions from, this Report.

To prepare this Report, we have reviewed only the documents and information provided to us by the Client or any third parties directed to provide information and documents to us by the Client. We have not reviewed any other documents in relation to this Report and except where otherwise indicated in the Report.

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1 INTRODUCTION

1.1 PURPOSE OF THIS REPORT

This Amendment report documents the process and findings of the Environmental Authorisation amendment application process for the proposed establishment of the Ventilation Shaft at Siphumelele 1 Mine (hereafter referred to as 'proposed project'), located approximately 11km east of Rustenburg. The Mine is located within the Rustenburg Local Municipality under the jurisdiction of the Bojanala Platinum District Municipality District Municipality in the North West Province of South Africa (See **Figure 1-1**).

The Amendment report will be provided to potentially interested and affected parties for a 30-day review period. All comments received will be used to update this report to a final version which will be submitted to the competent authority [Department of Mineral Resources (DMR)] tasked with making a decision on the application. The ultimate goal of the report is to achieve approval of the amendment in terms of Regulation 31 of the 2014 Environmental Impact Regulations (EIA).

1.2 BACKGROUND AND PROJECT OVERVIEW

RUSTENBURG SECTION

Rustenburg Platinum Mines Limited, a subsidiary of Anglo American Limited (Anglo American) mined and operated various mining and concentrator operations within Rustenburg Section until August 2016. In 2014, Anglo American announced the repositioning of its portfolio to focus on low cost production through shifting towards mechanised operations. In response to this, Anglo American entered into a Sale and Purchase Agreement on 8 September 2015 with Sibanye Gold Limited (Sibanye) to sell the mining and concentrating component of its Rustenburg Section operations. Anglo American has however retained the Rustenburg Section Smelter and Refineries which fall within the organisation's strategic goals.

To give effect to the sale and conditions of sale, the 82 Mining Right (82MR) has been ceded into Sibanye's name. Sibanye created a subsidiary entity referred to as Sibanye Rustenburg Platinum Mines Limited (SRPM) under which the Mining Right is now held. Sibanye going forward will effectively be the applicant with regards to all new or existing mining operations taking place within the 82MR boundary. Amongst other Rustenburg Section mining operations, the Siphumelele Mine is now effectively owned and operated by SRPM.

SIPHUMELELE MINE

Siphumelele Mine is an established and fully developed Mine situated on the north-western limb of the Bushveld Complex. The Mine consists of three shafts - Siphumelele 1, 2 and 3. Only Siphumelele 1 remains operational as the other higher-costs shafts (2 and 3) had been placed under care and maintenance in 2010. Siphumelele 2 shaft is currently being used as an underground training facility, called Siphumelele School of Mines.

SIPHUMELELE 1

Mining at Siphumelele 1 takes place on the Merensky horizon, with limited quantities of low-grade, surface-rock dump material being processed. The shaft mines the Merensky Reef and generally practices a conventional mining method. Some development uses diesel machinery on a trackless mining method, depending on underground conditions. The predominant mining layout at the

operating shaft is conventional breast stoping with strike pillars. The operating depth for the current workings is between 600 m and 1,350 m below surface.

1.3 PROPOSED PROJECT

Siphumelele 1 has revised its business plan to access the UG2 reef resources between 21 and 29 levels and will require additional ventilation infrastructure to ensure a safe working environment. The ventilation engineering design conducted for accessing the UG2 reef resources indicated that an additional exhaust shaft will be required, including a main fan system.

Initially the Khomanani 2 Fan Station will ventilate the West Merensky until the new UG2 shaft and fan station is operational in 2018 (proposed operational phase commencement date). The Mine ventilation design indicates that some 350 m^3/s of ventilating air will be required to circulate and exhaust through this new shaft. Three surface main fans will be required to be installed on top of the exhaust shaft.

The proposed additional ventilation shaft will be located ~650 m south of the existing Siphumelele 1 Mine main entrance gate (see yellow point on **Figure 1-2**).

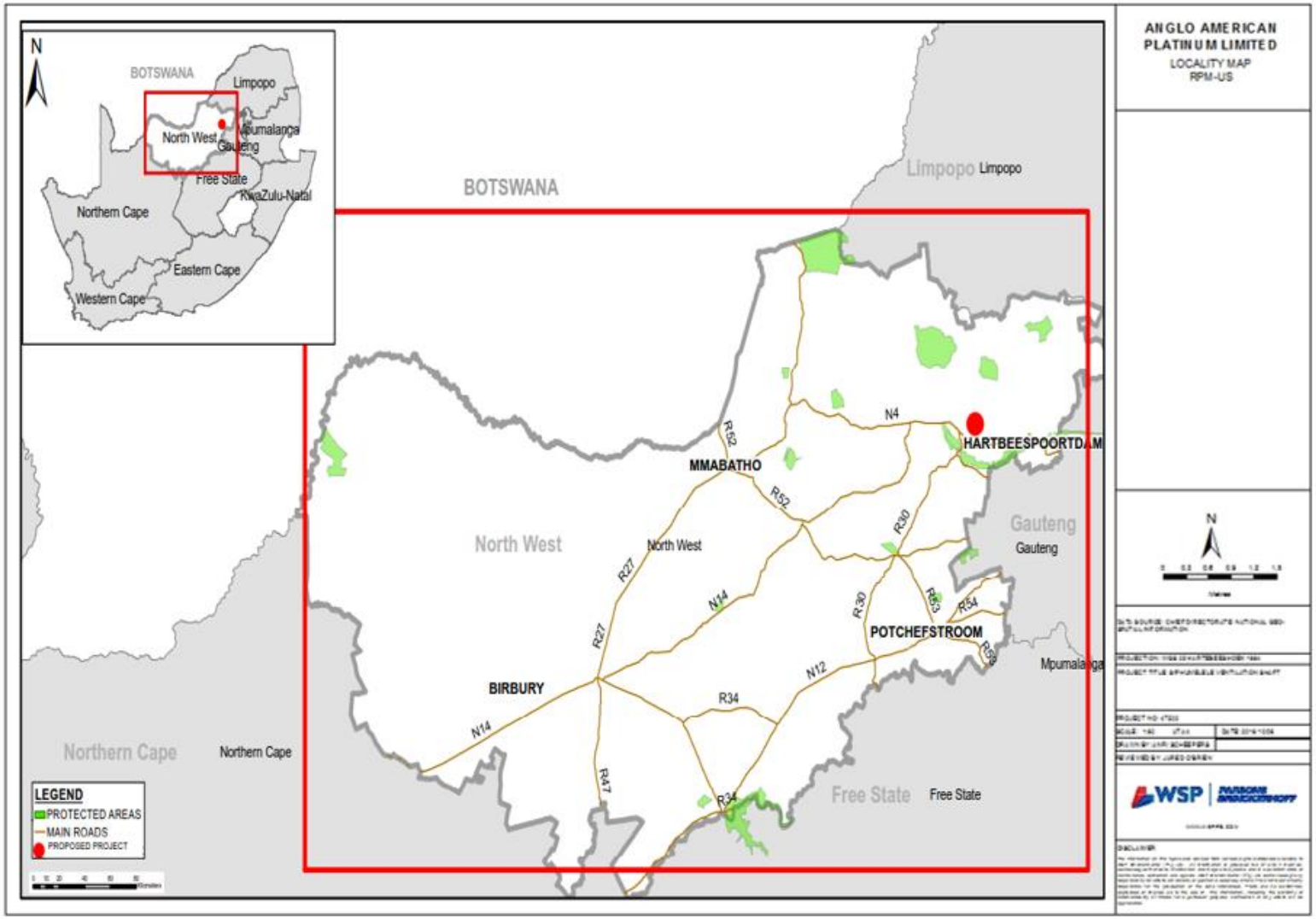


Figure 1-1: Location of Rustenburg Section

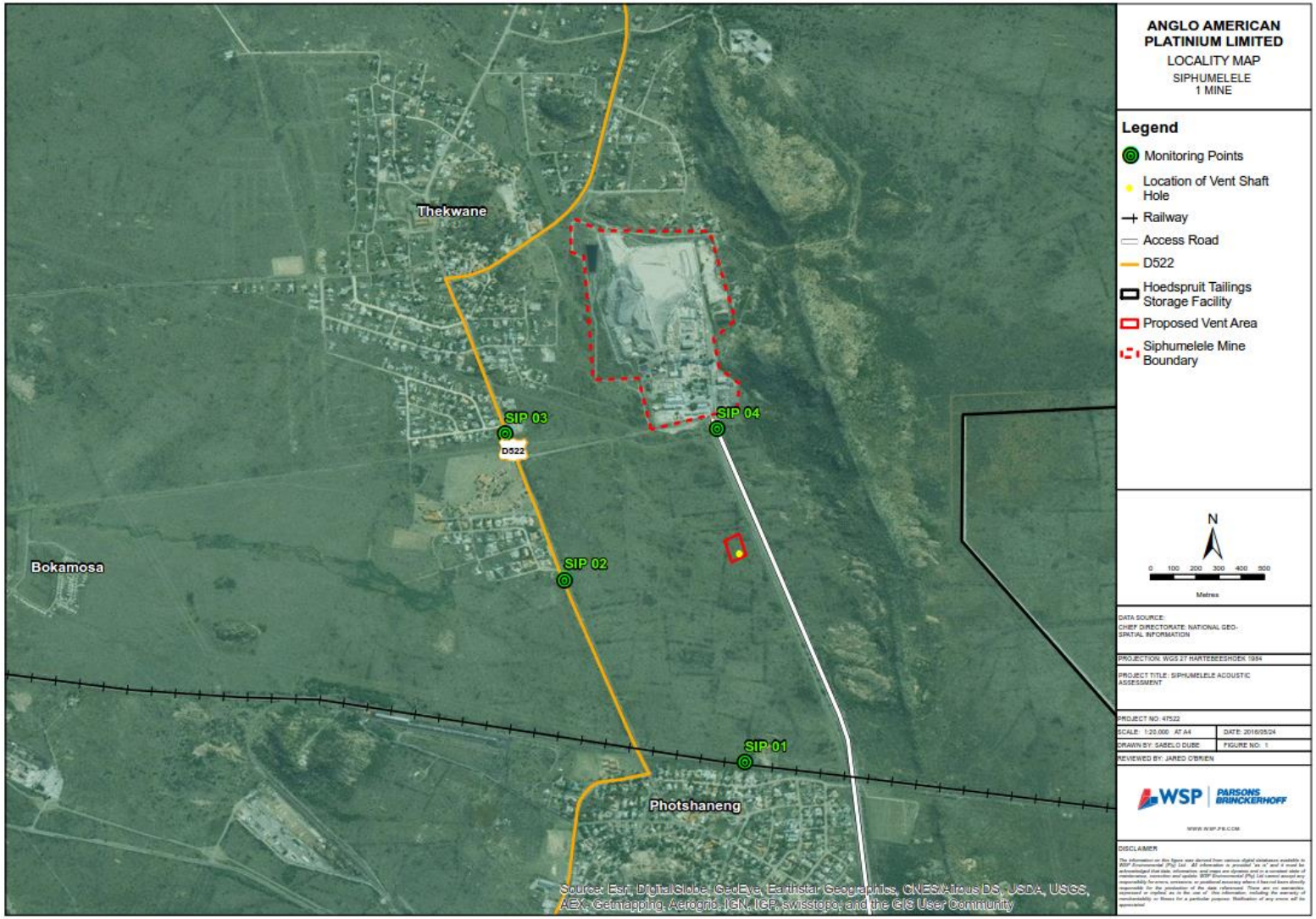


Figure 1-2: Location of the Proposed Additional Ventilation Shaft

1.4 LEGAL FRAMEWORK

On the 4th December 2014 the Minister of Environmental Affairs promulgated new EIA Regulations [Government Notice Regulation (GNR 982)] in terms of Chapter 5 of the National Environmental Management Act (No. 107 of 1998), as Amended (NEMA). Regulation 31 of the EIA Regulations details the process for a Part 2 (Substantive) amendment of an environmental authorisation where a change of scope occurs, but a listed activity is not triggered.

The proposed project does not trigger a listed activity, however it is anticipated that there will be an increased level of impact which was not assessed and considered in the existing EMPR associated with 82MR. One of the aims of this report is to outline the anticipated impacts.

1.5 TERMS OF REFERENCE

WSP | Parsons Brinckerhoff, Environment & Energy, Africa (WSP | Parsons Brinckerhoff) was appointed in the capacity as independent environmental assessment practitioner (EAP) to undertake the amendment process in terms of Regulation 31 and 32 of the 2014 EIA Regulations.

The amendment application process followed to date is summarised below:

- A pre-application meeting was held on 16 February 2016 attended by DMR, WSP | Parsons Brinckerhoff and the Applicant (at the time the applicant was Anglo American – ceding approved in August 2016).
- Payment of the prescribed R 2 000.00 fee for the application for the amendment of the EMPR was made on 3 June 2016.
- The application for amendment of the EMPR was submitted to the DMR on 24 June 2016.
- The DMR acknowledged receipt of the application for amendment on 17 August 2016 [DMR Ref: NW 30/5/1/1/3/2/2/ (80) EM].
- A timeframe extension was requested from the DMR on 23 August 2016 and DMR approval of the extension received on 31 August 2016.
- The application form has been amended to incorporate the transfer from Anglo American to SRPM, as the new project authorisation holder (i.e. holder of 82MR).

Section 32 of the 2014 EIA Regulations requires that the Draft Report (this report) be subject to a public participation process prior to submission to the North West DMR. WSP | Parsons Brinckerhoff is facilitating the following public participation process on behalf of SRPM:

- Provision of the Draft Amendment Report for a 30-day comment period as per the requirements of Section 32 (1) (b):
  - All registered stakeholders (as per the existing SRPM database) will be notified by WSP | Parsons Brinckerhoff of the availability of the Draft Report for comment. Copies will be made available at the Photshaneng Primary School (25° 40’ 48.18” S 27° 22’ 29.17”) and the Tshukudu High School (25° 40’ 08.97” S 27° 22’ 14.94” E) as well as on WSP | Parsons Brinckerhoff’s webpage (http://www.wsp-pb.com/en/WSP-Africa/What-we-do/Services/All-Services-A-Z/Technical-Reports/).

The Final Environmental Authorisation Amendment Report, for submission to DMR, will include copies of all comments received and responses addressing these comments.

2 STAKEHOLDER ENGAGEMENT

Regulation 32 (1) (a) refers to the need to obtain competent authority agreement on the stakeholder engagement process to be followed. The following plan was submitted to the DMR (Phumudzo Nethwadzi) on 08 April 2016 and approved by the DMR, via email with a suggestion to host a public meeting.

Table 2-1: Proposed Stakeholder Engagement Plan

No.	Items	Current Status	Descriptor
1	One newspaper advert in a provincial/local newspaper introducing the project and requesting public input.	**Completed**	WSP | Parsons Brinckerhoff placed an advert in the Rustenburg Herald on 22 July 2016 introducing the project and requesting stakeholder registration. Tear sheet contained in **Appendix A1**.
2	Five on-site notices placed at strategic locations. Locations include: - The Siphumulele Mine entrance, - The Tshukudu High School, - The Photshaneng Primary School, - The Thekwane High School, - Along-side the road adjacent to the project site. *Note: The Tshukudu High School is the Thekwane School therefore effectively the plan referred to four site notice locations.*	**Completed**	WSP | Parsons Brinckerhoff placed site notices at all four locations. See **Appendix A2** for proof of placement.
3	Notification letters placed at the locations described above (excluding the road site). These are deemed the closest most accessible stakeholder engagement points in the area. *In addition, the notification letter will be distributed (emailed and faxed) to the existing area stakeholder database to extend the radius of stakeholder coverage.*	**Completed**	Approximately 30 letters were delivered to the Tshukudu High School and the Photshaneng Primary School. Emails, faxs and SMSs were distributed on 12th and the 15th of August 2016. See proof of distribution contained in **Appendix A3**.
4	The Draft Report will be delivered to: - Tshukudu High School reception, and - Photshaneng Primary School. for stakeholder review.	**Planned**	To be delivered during the week of the 10th of October 2016.
5	The notices described above will include the Draft Report availability date/venues. Furthermore, SMSs and faxes will be sent out to known stakeholders within the greater area, including ward councillors	**Planned**	Notices have been sent to all registered stakeholders to introduce the project however the locations of the Draft Report have not yet been distributed to the public. The notices will be distributed during the week of the 10th of October 2016.

No.	Items	Current Status	Descriptor
	and chiefs (traditional leaders). Only those traditional leaders and ward councillors deemed affected will be notified.		
6	The notices will be distributed at least two weeks before the Draft Report is made available for stakeholder review.	Not Practical	Two weeks-notice cannot be provided due to the need to remain within process legislated timeframes. It is noted that notices will be provided as the Draft Report is ready for distribution.
7	All stakeholder comments will be used to update the Draft Report before DMR submission.	Planned	To be completed following the 30 day public review period.

The EAP has considered the recommended public meeting and decided that the hosting of a local leadership meeting including the newly elected ward councillors will be better suited to informing the communities. The ward councillors will be tasked with informing the Thekwane and Photshaneng communities of the proposed project.

2.1 STAKEHOLDER IDENTIFICATION

Stakeholders were identified through several mechanisms. These include:

- Utilising existing databases from other projects in the area;
- Obtaining the latest municipal ward councillor details through the Rustenburg local municipality;
- Assistance from the Mine Community Engagement Department (CED);
- Pre-identified project key stakeholders such as the North West Department of Agriculture and Rural Development (NWREAD), the Rustenburg Local Municipality (RLM) and the South African Heritage Resources Agency (SAHRA);
- Advertising in the press; and
- Placement of community notices.

During the public review period local leadership in the area will be requested to provide details of any additional interested and affected parties. All stakeholders identified to date are included in the stakeholder database.

2.2 LOCAL LEADERSHIP MEETING

A local leadership meeting will be facilitated during the draft Environmental Authorisation Amendment Assessment Report public review period. The meeting will outline the details of the proposed project and provided opportunities for members of the local leadership to raise issues, concerns and queries. Invitations to the meeting will be sent out approximately 14 days before the meeting date. The minutes of the meetings will be included in the Final Environmental Authorisation Amendment Assessment Report. The planned meeting date is 03 November 2016 at the Rustenburg Section Recreation Club.

2.3 SUBMISSION AND DECISION-MAKING

The DMR is allocated 107 days to review the Final Environmental Authorisation Amendment Assessment Report. The DMR must within this timeframe issue a decision on the application for amendment.

3 PROJECT DESCRIPTION

The existing ventilation systems were reviewed to determine the predicted requirement from 2026 to 2042. During this assessment it was determined that an additional upcast shaft will be required which is the subject of this application. It is proposed that two of the existing fans from Khomanani 2 will be refurbished and moved to the new Siphumelele 1 upcast shaft.

3.1 VENTILATION STRATEGY

The UG2 mining area is divided into two ventilation districts, 29 Level to 26 Level and 24 Level to 21 Inter Level. The lower district (29 Level to 26 Level) return to an on-reef return airway located below 24 Level; the upper (24 to 21 Inter Level) returns to an on-reef return and on 21 Inter Haulage.

In terms of the general ventilation design the following points should be noted:

- Dividing the Mine into two discrete ventilation districts provides the opportunity to mine each district concurrently, thereby providing an accelerated production build-up.
- The existing conveyor decline will continue to be used as an intake and the current fire suppression systems will be maintained.
- Where practical UG2 mining will make use of existing Merensky infrastructure.
- No additional air is allowed for battery bays, substations and stores. These will be either located in through-ventilation or force-ventilated.
- The strategy will re-use air in series ventilated stopes refreshing air on the intermediate levels.

After allowing for leakage, sufficient fresh air will be introduced on the bottom and intermediate levels to ventilate up to three back lengths. The planning of the re-use strategy will depend on the sequence of mining. Air distribution within the series ventilated stopes will be controlled by utilising ventilation seals.

Figure 3-1 shows the Merensky and UG2 primary air requirements over the life-of-mine.

To achieve the design conditions, the ultimate ventilation air quantity will be 1 030 kg/s, supplied via the existing Main Shaft and the dedicated downcast shaft ‘cold hole’. Merensky mining will intake via 34 and 33 Level Haulages (West and East). Air ventilating Merensky on the West will return to Khomanani 2 Shaft. Merensky on the East side will return back to Siphumelele Main Shaft.

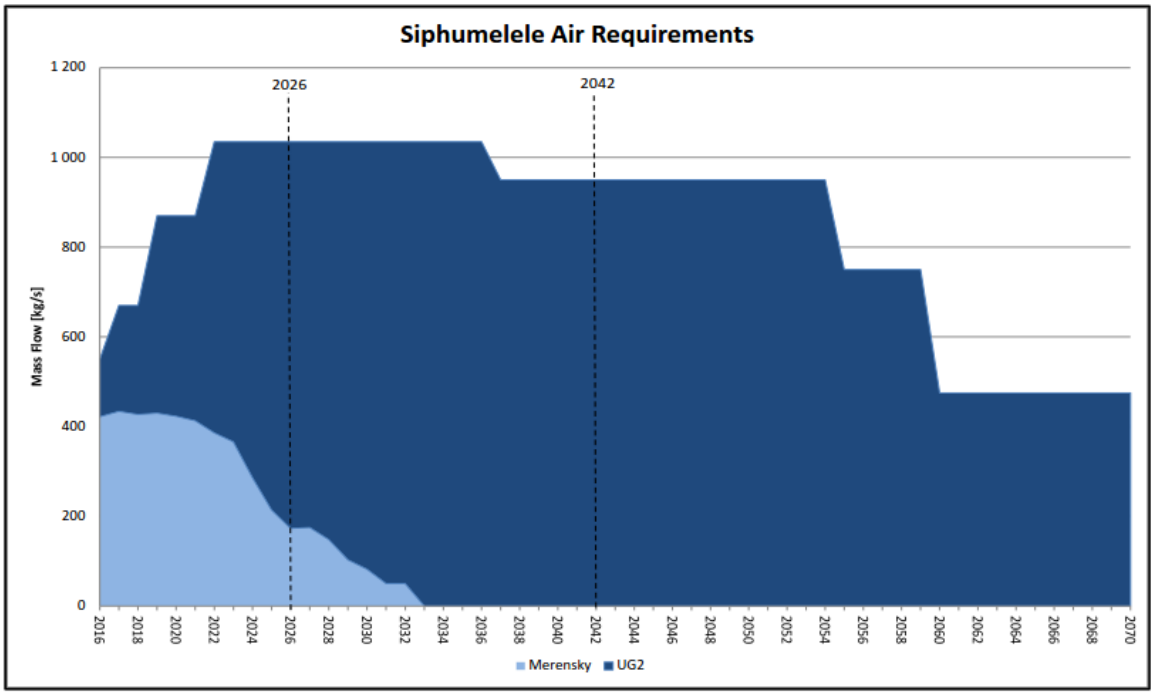


Figure 3-1: Life-of-Mine air requirements (Project Condor: BFS for ventilation, dated 09/2015)

PROPOSED RETURN AIR SYSTEM

To achieve the required airflow the planned 5.1 m upcast shaft will be raise bored and a set of fans installed on the surface. The new shaft will be located on 21 Intermediate Level. At the new upcast shaft two fans will operate with one stand-by (total of three fans). Station airways connecting the new upcast shaft will require a minimum area of 32 m² to ensure air velocities remain within the design criteria.

An on reef return airway will be established above 21 Intermediate Level to return to the new upcast shaft from 22 and 24 Level East and West. The minimum required size for the airway is 15 m² to reduce fan pressure and electrical power cost. It is recommended that a strike seal be established above the strike gully of the top panel. In conjunction with the on reef return 21 Intermediate Level Haulage will also be used to return.

Additional Return Air Infrastructure:

- ‘New’ 5.1 m diameter upcast shaft from 21 Intermediate Level to surface (742 m long).
- Trifurcated surface fans at the new upcast shaft, two operating one standby. Two fans will be relocated from Khomanani 2 to the new Siphumelele UG2 upcast shaft; the third fan will continue to operate at Khomanani and a new fan will be purchased for Siphumelele. The general arrangement for the new surface fan station is shown in Drawing 15139-04-001-01 as attached in **Appendix B**. The existing Khomanani fan station is shown in **Figure 3-2**.
- On reef returns for UG2 Lower on 29 to 26 Level (20 m²), and 24 to 21 Inter Level (20 m²), must have competent support to ensure that they stay open over the life-of-mine.
- Ventilation hole of 3.5 m Ø required from 21 on-reef return to 21 Inter Level to link with New UG2 upcast shaft.
- Ventilation holing’s are required to link 24 Level on reef return to RAW declines just below 26 Level, airway size 2 x 16 m².

Figure 3-2: Khomanani 2 surface fan station (Project Condor: BFS for ventilation, dated 09/2015)

Figure 3-3 contains a signed off proposed project layout diagram for ease of reference. Based on this figure the total area coverage of the A-B-C-D polygon is 0.6 hectares (ha). **Appendix B** contains a suite of project design drawings which further define the project description.

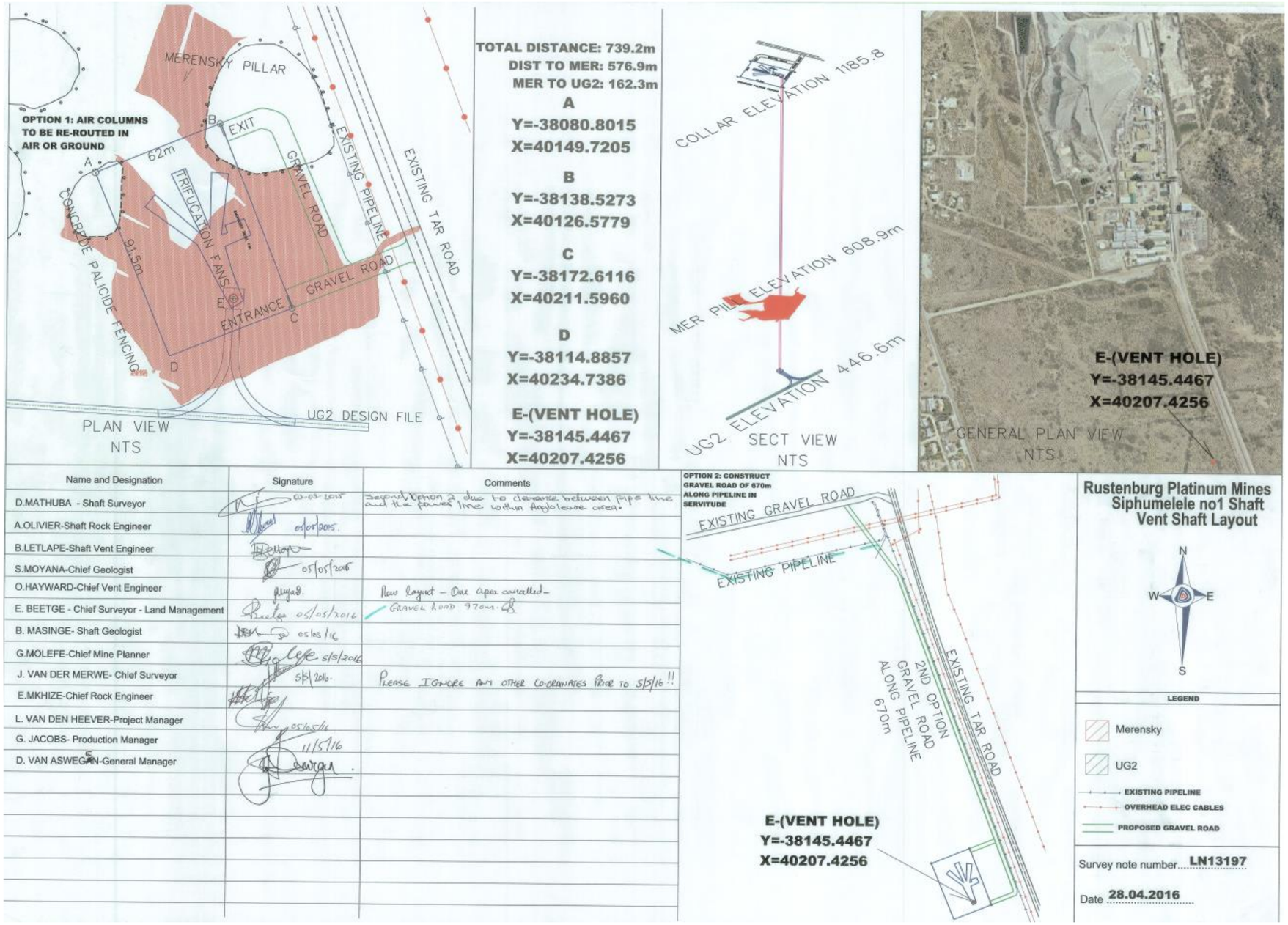
3.2 CONSTRUCTION METHODOLOGY

The construction of the proposed project will be conducted by using the 'raiseboring' method. The construction phase is expected to take place over a six-month period.

The raisebore method of ventilation shaft construction comprises of two phases; 'Phase 1' is the drilling phase and 'Phase 2' is the reaming phase. Prior to the commencement with Phase 1 an intersection point is identified. The intersection point is the point where the ventilation shaft will intersect with the underground workings.

In Phase 1 a pilot hole is drilled from the surface to the predetermined intersection point. During this phase the underground workings are extended to the intersection point. Once the pilot hole and the underground workings intersect a large excavation (cubby) is blasted. Refer to **Figure 3-4** for a diagram illustrating the activities undertaken in Phase 1.

In Phase 2 the reamer head is placed in the cubby and raised to the surface by the raisebore machine. The reamer head uses a turning action to cut the rock thereby widening the pilot hole. The broken rock falls down and collects in the cubby where it is loaded onto trams and transported to the orepass system and hoisted to the surface. The broken rock is disposed of to the nearest waste rock dump. Refer to **Figure 3-5** for a diagram illustrating the activities undertaken in Phase 2.



Name and Designation	Signature	Comments
D.MATHUBA - Shaft Surveyor	03-03-2015	Segment Option 2 due to clearance between pipe line and the power line within Anglotsime area.
A.OLIVIER-Shaft Rock Engineer	05/05/2015.	
B.LETLAPE-Shaft Vent Engineer		
S.MOYANA-Chief Geologist	05/05/2016	
O.HAYWARD-Chief Vent Engineer		New layout – One apex cancelled –
E. BEETGE - Chief Surveyor - Land Management	05/05/2016	GRAVEL ROAD 970m.
B. MASINGE- Shaft Geologist	05/05/16	
G.MOLEFE-Chief Mine Planner	5/5/2016	
J. VAN DER MERWE- Chief Surveyor	5/5/2016.	PLEASE IGNORE ANY OTHER CO-ORDINATES PRIOR TO 5/5/16 !!
E.MKHIZE-Chief Rock Engineer		
L. VAN DEN HEEVER-Project Manager	05/05/16	
G. JACOBS- Production Manager	11/5/16	
D. VAN ASWEGEN-General Manager		

Figure 3-3: Proposed Project Layout Drawing

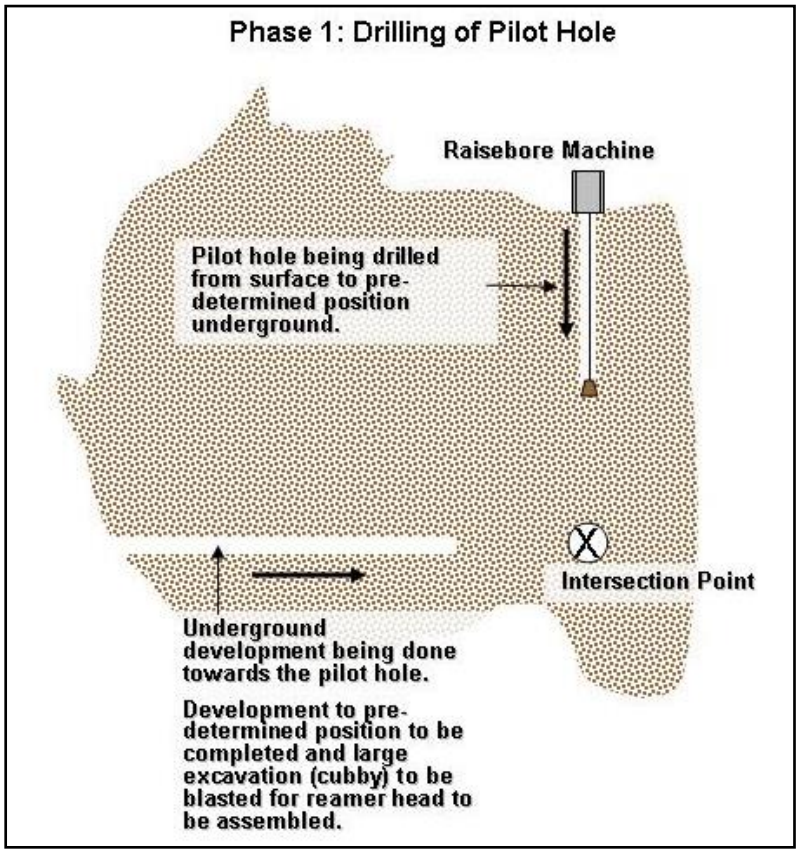


Figure 3-4: Phase 1 of the Raisebore Method (Project Condor: BFS for ventilation, dated 09/2015)

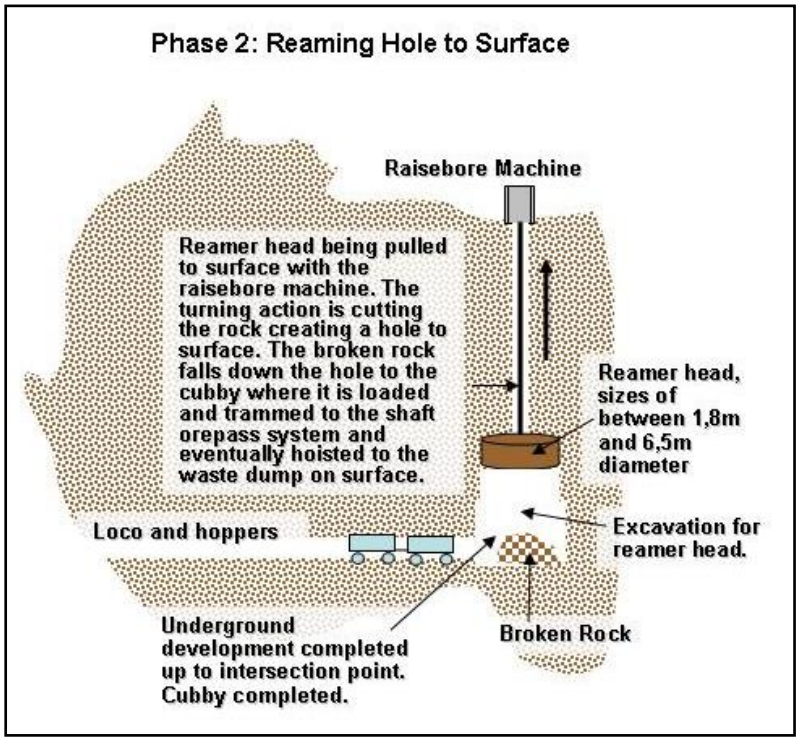


Figure 3-5: Phase 2 of the Raisebore Method (Project Condor: BFS for ventilation, dated 09/2015)

4 IMPACTS ASSESSMENT

4.1 ADVANTAGES AND DISADVANTAGES

The project advantages include:

- Supply of cool air to sustain underground operations moving south; and
- Installation of a back-up generator to ensure ventilation can continue during unplanned power cuts.

Project advantages are primarily related to mine worker health and safety requirements.

Project disadvantages are effectively limited to the noise aspect of the ventilation fan during the project's operational life. The fans generate an on-going consistent noise which, depending on the direction of the fans, can impact upon surrounding residential areas. A comprehensive acoustics impact assessment has taken place as part of this amendment application. The study indicates that operational noise levels at Photshaneng, Thekwane and Khomanani 1 Mine main gate will increase marginally as a result of the proposed project. See **Section 4.2** for further details.

4.2 NOISE ASSESSMENT

A Screening-Level Environmental Acoustic Impact Assessment was undertaken by WSP | Parsons Brinckerhoff (February 2016). Refer to **Appendix C** for the detailed report.

SUMMARY OF FINDINGS

When the additional ventilation shaft is operational, noise levels are predicted to increase only marginally at three receptor locations (Photshaneng residential area, south of the proposed ventilation shaft; Thekwane residential area, northwest of the proposed ventilation shaft; and Khomanani 1 Mine main gate). Noise levels at these locations are anticipated to increase by between 0.1 and 4.1 Decibels [dB(A)] during the day and 0.1 and 2.7 dB(A) at night. According to the South African National Standards (SANS) categories of community/group responses, such increases are considered to have "little" impact resulting in sporadic complaints and are deemed to go unnoticed particularly during the noisier daytime hours. Based on the acoustic results, the specialist has advised that the project proceed.

RECOMMENDATIONS

A second noise monitoring campaign be undertaken once the ventilation shaft is operational. Since perception to noise is highly subjective, such monitoring will aid in confirming off-site noise levels and whether any complaints that may arise will warrant the need for mitigatory interventions. **Table 5-1** contains the study recommendations as mitigation and management actions.

See **Appendix C** for further details.

4.3 IMPACT ASSESSMENT METHODOLOGY

The main issues and potential impacts associated with the proposed project were determined at both a desktop level based on existing information, as well as fieldwork and specialist input. The following methodology was used:

- Identify potential sensitive environments and receptors that may be impacted on by the proposed project;

- Identify the type of impacts that are most likely to occur; and
- Determine the nature and extent of the potential impacts during the various developmental phases, including, construction, operation and decommissioning.

Impacts are assessed in terms of the following criteria:

- The **nature**, a description of what causes the effect, what will be affected and how it will be affected (**Table 4-1**)

Table 4-1: Nature of the Impact

NATURE OR TYPE OF IMPACT	DEFINITION
Beneficial / Positive	An impact that is considered to represent an improvement on the baseline or introduces a positive change
Adverse / Negative	An impact that is considered to represent an adverse change from the baseline, or introduces a new undesirable factor
Direct	Impacts that arise directly from activities that form an integral part of the proposed project (e.g. new infrastructure)
Indirect	Impacts that arise indirectly from activities not explicitly forming part of the proposed project (e.g. noise changes due to changes in road or rail traffic resulting from the operation of Project)
Secondary	Secondary or induced impacts caused by a change in the proposed project environment (e.g. employment opportunities created by the supply chain requirements)
Cumulative	Impacts are those impacts arising from the combination of multiple impacts from existing projects, the proposed project and/or future projects

- The physical **extent** (**Table 4-2**), wherein it is indicated whether:

Table 4-2: Extent of the Impact

SCORE	DESCRIPTION
1	the impact will be limited to the site
2	the impact will be limited to the local area
3	the impact will be limited to the region

SCORE	DESCRIPTION
4	the impact will be national
5	the impact will be international

→ The **duration** (**Table 4-3**), wherein it is indicated whether the lifetime of the impact will be:

Table 4-3: Duration of the Impact

SCORE	DESCRIPTION
1	of a very short duration (0 to 1 years)
2	of a short duration (2 to 5 years)
3	medium term (5–15 years)
4	long term (> 15 years)
5	permanent

→ The **magnitude of impact on ecological processes** (**Table 4-4**), quantified on a scale from 0-10, where a score is assigned:

Table 4-4: Magnitude of Impact

SCORE	DESCRIPTION
0	small and will have no effect on the environment
2	minor and will not result in an impact on processes
4	low and will cause a slight impact on processes
6	moderate and will result in processes continuing but in a modified way
8	high (processes are altered to the extent that they temporarily cease)

SCORE	DESCRIPTION
10	very high and results in complete destruction of patterns and permanent cessation of processes

→ The **probability of occurrence** (**Table 4-5**), which describes the likelihood of the impact actually occurring. Probability is estimated on a scale where:

Table 4-5: Probability

SCORE	DESCRIPTION
1	very improbable (probably will not happen)
2	improbable (some possibility, but low likelihood)
3	probable (distinct possibility)
4	highly probable (most likely)
5	definite (impact will occur regardless of any prevention measures)

→ the **significance**, which is determined through a synthesis of the characteristics described above (refer formula below) and can be assessed as low, medium or high;

→ the **status**, which is described as either positive, negative or neutral;

→ the degree to which the impact can be reversed;

→ the degree to which the impact may cause irreplaceable loss of resources; and

→ the degree to which the impact can be mitigated.

The **significance** is determined by combining the criteria in the following formula:

$$S = (E+D+M)*P$$

S = Significance weighting

E = Extent

D = Duration

M = Magnitude

P = Probability

The **significance weightings** for each potential impact are as follows:

Table 4-6: Significance Weightings

OVERALL SCORE	SIGNIFICANCE RATING	DESCRIPTION
< 30 points	**Low**	where this impact would not have a direct influence on the decision to develop in the area.
31-60 points	**Medium**	where the impact could influence the decision to develop in the area unless it is effectively mitigated.
> 60 points	**High**	where the impact must have an influence on the decision process to develop in the area.

The impact significance without mitigation measures will be assessed with the design controls in place. Impacts without mitigation measures in place are not representative of the proposed project's actual extent of impact, and are included to facilitate understanding of how and why mitigation measures were identified.

The residual impact is what remains following the application of mitigation and management measures, and is thus the final level of impact associated with the development of the proposed project. Residual impacts also serve as the focus of management and monitoring activities during project implementation to verify that actual impacts are the same as those predicted in this Report.

4.4 ENVIRONMENTAL AND SOCIAL IMPACTS

Certain acceptable environmental impacts have been identified, based on the site visit, desktop review and specialist study, and relevant mitigation measures in respect of those impacts proposed.

A summary of the ratings is provided in **Table 4-7** and full ratings table for all identified potential impacts are included in **Appendix D**. Significant impacts and the factors contributing to the significance are discussed below.

A rating of Medium-High is set as the definition of significant, since such rating and above attracts an obligation for mitigation. Ratings of Medium and below are assumed not to require mitigation, that is, they have no material effect on the project's implementation, and are therefore not discussed further in this report, although mitigation measures for them may be included in the Environmental Management Plan (EMP) for auditing purposes. Mitigation measures are provided in **Section 5**.

Table 4-7: Summary of Direct Impacts

ASPECT	NATURE OF IMPACT	WITHOUT MITIGATION	WITH MITIGATION
CONSTRUCTION PHASE			
Geology	Disturbance of the surface geology as a result of the construction of foundations and sinking of the ventilation.	M-	L-
Topography	Temporary disturbance of the topography may occur from the stockpiling of soil, rubble, building material and other waste during the development and clean-up of the project area.	L-	L-

ASPECT	NATURE OF IMPACT	WITHOUT MITIGATION	WITH MITIGATION
Soil, Land Use and Land Capability	Degradation of soil due to the development of a contractor lay down area.	M-	L-
	Removal and compaction of topsoil.	M-	L-
	Contamination of soil resulting from hydrocarbon spillages or contaminated water runoff.	M-	L-
Fauna and Flora	Removal / Destruction / Disturbance of existing fauna and flora.	M-	L-
	Disturbance of surrounding fauna and flora from dust during construction activities.	L-	L-
	Disturbance/destruction of surrounding fauna and flora due to hydrocarbon spillages, contaminated runoff.	M-	L-
	Destruction of fauna and flora due to potential incidents such as fires or explosions.	L-	L-
	Removal and use of local flora for firewood.	L-	L-
	Disturbance of fauna due to noise generated during the construction phase.	L-	L-
Surface Water	Pollution of surface water due to contaminated runoff.	M-	L-
Groundwater	Dewatering of aquifers due to the creation of an underground void. Groundwater permeating through the walls of the shaft leading to dewatering activities.	M-	L-
Air Quality	Decrease in air quality due to dust generated during construction activities.	L-	L-
Noise	A noise nuisance will result from noise generated during the construction of the ventilation shafts.	M-	L-
Visual	A visual impact will occur as a result of construction activities, which include the presence of construction vehicles, equipment, construction camp and vegetation clearance.	M-	L-
Archaeology	Potential disturbance of archaeological sites during construction activities.	L-	L-
Socio-Economic Conditions (Job Creation)	Contractors, the influx of people and potential job creation will result in the proliferation of social ills and issues such as crime, prostitution, the spread of HIV/AIDS, informal settlements etc.	L-	L-
	Job creation during the construction phase will improve the socio-economic conditions in the area.	L+	L+
	OPERATIONAL PHASE		
Geology	None	-	-
Topography	None	-	-
Soil, Land Use and Land Capability	Contamination of soil resulting from hydrocarbon spillages and incorrect handling of hazardous waste.	M-	L-
Fauna and Flora	Disturbance of surrounding fauna and flora due to dust generated by vehicle activity.	L-	L-
Surface Water	Contamination of surface water resulting from hydrocarbon spillages and incorrect handling of hazardous waste.	M-	L-
Air Quality	Decrease in air quality due to the generation of dust from the upcast shaft.	L-	L-
	Decrease in air quality due to the release of fumes (sulphur and oxides of nitrogen) from the upcast and down cast ventilation shafts.	L-	L-
Noise	Noise disturbance to neighbouring communities caused by continuous hum from vent fans.	L-	L-
Visual	The operation of the ventilation shaft will have an impact on the visual aspects of the area.	L-	L-
Archaeology	None		
Socio-Economic Conditions (Job Creation)	Construction and operation of the ventilation infrastructure will extend the Life of Mine (LoM) thereby improving the socio-economic conditions in the area for an expended period.	M+	M+

CLOSURE

Closure will be undertaken as per the preliminary closure plan contained in the exiting approved 82MR consolidated EMPR.

5 UPDATE OF THE ENVIRONMENTAL MANAGEMENT PROGRAMME

Provisions have been made in the existing EMPR for the construction and operation of Ventilation Shafts. These provisions are made to ensure minimal environmental impact and damage occurs. Mitigation and management measures associated with the proposed project (as extracted from the existing EMPR) are contained in **Table 5-1**. The mitigation measures must be adhered to. Newly identified mitigation measures specific to the proposed project are indicated in red. Monitoring of the application of mitigation measures should be undertaken on a continuous basis to ensure effective application of all recommendations.

Table 5-1: Siphumelele Mine Environmental Management Commitments

No.	Mitigation and Management Measures	Environment														Phase			Responsibility			
		Geology	Topography	Soil, Land Use and Capability	Fauna and Flora	Surface Water	Groundwater	Air Quality	Noise	Visual	Archaeology	Waste Generation	Spillages and Incidents	Health and Safety	Socio-Economic	Construction	Operational	Closure and Post Closure	Project Manager	Construction Manager	Environmental Coordinator	SHE Manager
Biodiversity Management Plan																						
1.	Only indigenous species will be used during the rehabilitation and landscaping phase.				X													X	X	X	X	X
2.	Only in areas considered necessary for the installation of project infrastructure vegetation will be removed. Surrounding vegetation should be protected by erecting a form of temporary barrier (such as Red And White Striped Tape)				X											X	X	X	X	X	X	X
3.	Establish fencing around the vent shaft infrastructure to prevent fauna access.																					
Land Management Plan																						
4.	The vent shaft should be clearly marked on a drawing after closure and rehabilitation.			X														X				X
5.	If during construction any possible archaeological finds are made, the operations must be stopped immediately, the SAHRA is to be contacted and an archaeological consultant appointed.										X					X			X	X		
6.	Work may only resume once clearance is given in writing by the archaeological consultant.										X					X			X	X		
7.	If disturbances take place beyond the shaft footprint area, rehabilitation will be undertaken accordingly.			X												X	X	X	X	X	X	X
8.	Prior to any construction, soil will be stripped and stockpiled from all areas to be disturbed. A minimum of 300 mm of soil will be stripped.			X												X			X	X		
9.	When grubbing the site, only large trees will be removed prior to the removal of the soil, thus allowing for the remaining shrubs and bushes to contribute to the organic matter content of the soil.			X	X											X			X	X		
10.	All soil stripped will be stockpiled for use in rehabilitation. The chemical and physical properties of the topsoils and subsoils do not differ significantly and will therefore not need to be stored separately. As the stockpiles will be in place for several years, no special measures will be introduced to preserve the organic content of the soils.			X												X	X		X	X	X	
11.	All disused infrastructure will be demolished during Mine closure and waste material will be disposed of appropriately. All disturbed areas will be reinstated to the original land use, unless different end-land uses have been identified as part of overall closure planning. Closure planning to align with the 'overall Mine closure plan'.			X								X						X				X
12.	Soil replacement will be done in such a manner as to ensure that the soil is not significantly compacted or contaminated with building rubble or other extraneous material.			X														X				X
13.	Following closure re-vegetation, the site will be monitored and maintained until an acceptable, self-sustaining vegetation cover has been achieved.			X														X				X
14.	Areas disturbed temporarily during the construction phase, such as laydown areas, will be rehabilitated directly after the completion of construction. Following the removal of project infrastructure (i.e. decommissioning phase), affected areas will be revegetated directly following the cessation of operations.			X												X	X		X	X	X	
15.	Soil stockpile heights will be limited to approximately 2-4 m or alternatively will be benched to limit slope length in an effort to reduce erosion.			X												X	X	X	X	X	X	X
16.	Should stockpiles not self-vegetate within a 1-2 year timeframe, the stockpile(s) will be seeded with a mix of indigenous species.			X												X	X	X	X	X	X	X
17.	To prevent ingress of clean storm water onto site, up gradient berms can be established using spoil and topsoil material. Down gradient runoff sediment, settling ponds can be established if considered necessary.			X		X										X	X	X	X	X	X	X

No.	Mitigation and Management Measures	Environment														Phase			Responsibility			
		Geology	Topography	Soil, Land Use and Capability	Fauna and Flora	Surface Water	Groundwater	Air Quality	Noise	Visual	Archaeology	Waste Generation	Spillages and Incidents	Health and Safety	Socio-Economic	Construction	Operational	Closure and Post Closure	Project Manager	Construction Manager	Environmental Coordinator	SHE Manager
18.	Surface water management infrastructure constructed from soil will be inspected on a monthly basis, with more frequent inspections during periods of high rainfall and after major rain events. If any of the inspections identify eroded areas, these will be repaired before the next inspection.			X		X										X		X	X	X		X
19.	Spillages of oil, grease and hydraulic fluids will be remediated by considering the following options in the order specified: 1) Bioremediation (this will depend on the scale of the spillage and the feasibility of the option. A specialist may need to be consulted), or 2) Removing the contaminated soil and disposing it at a licensed hazardous waste facility. *Runoff will be diverted away from areas where significant spillages have occurred using berms or similar features.*			X								X	X			X	X	X	X	X	X	X
Water Management Plan																						
20.	Use water saving technologies, where practical.					X	X										X				X	
21.	Manage vegetation and storm water to minimise erosion.					X											X				X	
22.	Seal off seepage zones in the weathered zone aquifer to minimise inflows into the shaft, and therefore dewatering of the weathered zone aquifer.						X										X				X	
23.	Clean water will be diverted around the shaft areas.					X	X										X				X	
24.	Waste rock generated by the raise bore drilling activities will be temporarily stockpiled on the project site. Material will be removed from the temporary stockpile on a continuous basis.																					
25.	All waste rock contained within the temporary stockpile will be transferred to the operational Siphumelele 1 Mine waste rock dump (WRD).					X	X										X				X	
26.	Oil and diesel spills should be cleaned up within 24 hours.					X	X						X			X	X	X	X	X	X	X
27.	Should oil and diesel storage be required on the site during both construction or operational phases, the hazardous substances will be stored within a bunded area which has the capacity to store 110% the volume of the largest tank, where more than one tank is included in a bunded area.					X	X									X	X	X	X	X	X	X
28.	Sufficient chemical/temporary toilets will be provided for the construction staff (one toilet for 15 staff members as a minimum). No conservancy tank system is required.					X	X									X			X	X		
29.	No construction of any water management measures or the access road will be undertaken with contaminated material.					X	X									X			X	X		
Visual/Aesthetics Management Plan																						
30.	Areas used for temporary stockpiling of waste rock will be cleaned up and covered with topsoil to encourage natural vegetation growth, following the construction phase.			X						X							X	X			X	X
Noise and Vibration Management Plan (specialist study report extract)																						
31.	Erection of an acoustic barrier on the southern side of the raise bore machine in order to limit the noise propagation towards the receptors to the south of the site.								X							X			X	X		
32.	Selection of construction equipment with lower sound power level specifications.								X							X			X	X		
33.	Installation of mufflers on exhausts of construction vehicles.								X							X				X		X

No.	Mitigation and Management Measures	Environment													Phase			Responsibility			
		Geology	Topography	Soil, Land Use and Capability	Fauna and Flora	Surface Water	Groundwater	Air Quality	Noise	Visual	Archaeology	Waste Generation	Spillages and Incidents	Health and Safety	Socio-Economic	Construction	Operational	Closure and Post Closure	Project Manager	Construction Manager	Environmental Coordinator	SHE Manager
34.	The use of ear protection equipment for personnel working onsite in close proximity to noise sources.								X							X				X		X
35.	Enclosing of the fan mechanism (excluding the fan blades) within a sound absorbing enclosure.								X								X		X	X		
36.	Erection of an acoustic barrier along the southern boundary of the operations to limit the noise propagation towards the receptors to the south of the site.								X								X		X	X		
37.	A second noise monitoring campaign be undertaken once the ventilation shaft is operational. Since perception to noise is highly subjective, such monitoring will aid in confirming off-site noise levels and whether any complaints that may arise will warrant the need for mitigatory interventions.								X								X		X		X	
Air Quality Management Plan																						
38.	Diesel storage related to the emergency back-up fan should be stored within enclosed tanks.							X									X				X	
39.	Dust generated during the transport of waste rock to the operational Siphumelele Mine WRD should be controlled by ensuring the truck is not filled beyond the brim of the trailer. The WRD is approximately 1 km to the north, therefore dust is not expected to be a significant issue during transport.							X									X				X	
40.	Review dust fallout monitoring plan to incorporate the new infrastructure.			X				X									X	X			X	X
41.	Should excessive dust occur as a result of construction activities, water carts will be used to wet the area.							X								X		X	X	X		X
42.	Dust suppression of the unpaved gravel access road will be undertaken via wetting down, if when dust becomes an issue.							X								X		X	X	X		X
43.	Speed limit of 20 km/h to be enforced on the access gravel road. the road will be used into the operational phase and therefore should gravelled at the onset of the construction phase as part of dust suppression.							X								X		X	X	X		X
44.	A wetting system will be used to suppress dust where tipping of waste rock occurs.							X									X				X	
45.	Vehicle and machinery to be maintained regularly to ensure that gas and smoke emissions are minimised.							X								X	X	X	X	X	X	X
Waste Management Plan																						
46.	Existing waste rock dump at the Siphumelele Mine will be used.											X					X				X	
47.	Domestic waste will be disposed of at the local Municipal landfill site.											X				X	X	X	X	X	X	X
48.	Litter bins are to be provided at the construction site and should be emptied when full for disposal at a certified landfill.											X				X			X	X		
49.	Contaminated construction waste and clean construction waste must be dealt with separately; the former should be removed to a registered hazardous waste landfill disposal site.											X				X			X	X		
50.	Hazardous waste will need to be separated from the general waste and separate bins should be provided for this.											X				X	X	X	X	X	X	X
51.	Hazardous waste safety disposal certificates should be obtained within 30 days of the disposal date.																					
52.	Recycling will be implemented as far as possible and practicable. Recycling will be considered prior to disposal of waste.											X				X	X	X	X	X	X	X
53.	All building rubble must be removed to a registered waste disposal facility/rubble aggregate recovery facility or used as backfill in areas of rehabilitation. Proof of disposal should be retained.											X				X			X	X		

No.	Mitigation and Management Measures	Environment														Phase			Responsibility			
		Geology	Topography	Soil, Land Use and Capability	Fauna and Flora	Surface Water	Groundwater	Air Quality	Noise	Visual	Archaeology	Waste Generation	Spillages and Incidents	Health and Safety	Socio-Economic	Construction	Operational	Closure and Post Closure	Project Manager	Construction Manager	Environmental Coordinator	SHE Manager
54.	No wet wastes or solvents shall be permitted to be disposed of down sewers, drains or stormwater drains.					X						X				X	X	X	X	X	X	X
Socio-economic Management Plan																						
55.	The project is utilising a contractor for the construction of the facility. The contractor should apply the existing Mine socio-economic requirements with regards to BBEEE and local community employment. Mine wide training/internship programs should be considered by the project team.															X	X	X				
56.	The project area should be fenced off prior to construction commencement to prevent unauthorised access. Theft of the steel fence should be monitored.														X	X			X	X		
57.	No retrenchment issues are expected as a contractor is being used for the construction of the facility. Operational labour requirements are extremely limited.														X			X				X
58.	Upon Mine closure (or vent shaft decommissioning) the shaft opening should be sealed off by ‘capping’ to reduce the residual safety risk.				X									X				X	X			X

6 CONCLUSION

The proposed ventilation shaft is required to support the proposed mining of the UG2 reef resource at the Siphumelele 1 Mine. A Regulation 31 process, in terms of the 2014 EIA Regulations, is required in order to amend the existing EMPR related to 82 MR. The process is focused on identifying impacts related to the proposed project and allowing potentially interested and affected parties to comment on the adequacy of the proposed mitigation measures. The noise impact related to a ventilation shaft is generally viewed as a focus impact. As such a specialist was commissioned to understand the baseline acoustic environment (i.e. existing noise impacts caused by the existing mining operations) and the expected change to the baseline levels resulting from the proposed project. The noise impact post mitigation measure application is expected to be increased 'marginally'.

Other environmental impacts are rated as low (post mitigation application). The majority of proposed mitigation measures are aligned with those measures contained within the approved EMPR. Therefore, the management of the proposed project impacts is aligned with the current operations at Siphumelele 1 Mine. It is the EAP's professional opinion that the proposed project be approved for the following reasons:

- The strategic location of the proposed shaft, near to the Mine road and equidistant from surrounding communities.
- The proposed project fits into the sense of place of the area. Communities are accustomed to the sight of a ventilation shaft as well as the noise emanating during operations.
- The extension of the LoM will have a positive impact on the socio-economic environment.
- Allows for the continued safe mining of the ore body.

Appendix A

STAKEHOLDER ENGAGEMENT

APPENDIX A-1

NEWSPAPER TEARSHEETS

Gimnaste presteer

Leandri van der Merwe Akroklub

Baie geluk aan Janrie Snyman van Leandri van der Merwe Akroklub met haar fantastiese uitslae gedurende die "Dance International" in Pretoria-Noord, Akasia. Janrie het vir haar 3 solo's 3 x Goud ontvang en spesiale toekennings. Baie dankie ook aan haar ma, Marie Snyman vir die ongelooflike ondersteuning wat sy haar kind bied. Janrie is ook in 2015 gekies om in Amerika deel te gaan neem by die ADA-American Dance Awards. Sy het op 7 Julie na Amerika vertrek. Vir enige navrae kontak Leandri by 076 018 1683.

Vastrap gimnaste het die afgelope naweek aan die "Eldo Stars" gimnastiekkompetisie deelgeneem en baie goed presteer. Vastrap gimnaste het onderskeidelik 1 goue, 10 silwer en 20 brons medaljes verwerf. Van links voor is Leane Wagenaar, Caylin Stieger en Persa Marote saam met afrigters Jeanette Botha en Deidre Botha.

Judo Akademie-klub OosEinde presteer

Judo Akademie-klub OosEinde het vanaf 26 Junie tot 2 Julie aan die Judo SA's by Carnival City deelgeneem. Die kinders het baie goed gevaar. Op die foto van links agter verskyn Aryke Smit (brons), Michael van der Westhuizen (sesdeplek), Adriaan van der Merwe (vyfdeplek) en voor van links Jonathan Naude (vierdeplek) en Hes-Marie van Loggerenberg (goud). Baie geluk aan die kinders, almal is trots op julle.

Hes-Marie van Loggerenberg van Judo Akademie-klub OosEinde het onlangs die Judo SA's gewen en 'n goue medalje verower. Baie geluk met hierdie pragtige prestasie. Saam met haar op die foto verskyn haar afrigter, Taan Esterhuizen.

NW Dart player ranked 4th in SA

Concratulations to Dave Rudman from the North West Darts Association who was ranked 4th in SA at the 2016 SA National Dart Championships in Bloemfontein.

Joe received prestigious award

Joe Viljoen received the award for Athlete of the Year at the North West North Masters Athletics' awards function on 2 July 2016. Joe's performances in the M45 age group at the recent SA Masters Athletics championships, held on 13 and 14 May 2016 at Pilditch Stadium were: 200m 24,94 with an age-grading of 83,88%; 400m 53,74 with age-grading of 89,04%; and 800m 2:06,59 with age-grading of 86,79%. The average of Joe's age-grading, 86,57% put him in the first position. In second position is Christa Olivier with an average age-grading of 81,17% and in third position Bennet de Klerk with 80,32%

PLATINUM

AngloAmerican

PUBLIC NOTICE

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE

Notice is given in terms of Section 31(1)(a)(i) of Government Notice Regulation (GNR 982) (04 December 2014) published under section 24(5) of the National Environmental Management Act (No.107 of 1998), as amended (NEMA) for submission of an application for Environmental Authorisation in respect of activities which will result in a change of the scope of an existing valid environmental authorisation, where such change will result in an increased level or nature of impact which was not considered during the initial environmental authorisation process undertaken

DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is 25° 40' 17.58"S 27° 22' 46.66"E. The shaft fifinal operational area will cover less than 8,000 m2. The ventilation shaft will be linked to the Mine road leading from Photshaneng, via a gravel road.

ENVIRONMENTAL AUTHORISATION

Section 31 of GNR 982 states the following:
"An environmental authorisation may be amended by following the process prescribed in this Part if the amendment will result in a change to the scope of a valid environmental authorisation where such change will result in an increased level or nature of impact where such level or nature of impact was not -
(a) assessed and included in the initial application for environmental authorisation; or
(b) taken into consideration in the initial environmental authorisation;
and the change does not, on its own, constitute a listed or specified activity."
The proposed project does not trigger any listed activities in terms of the NEMA Regulations.
An Application form for Environmental Authorisation in terms of the NEMA has been submitted to the Department of Mineral Resources (DMR). The DMR is the competent authority in this case as the project is directly related to primary extraction of ore [according to the Section 24C(2A) of the NEM: Amendment Act (No. 62 of 2008)].

STAKEHOLDER REGISTRATION

WSP Environmental (Pty) Ltd has been appointed as the independent Environmental Assessment Practitioner (EAP), to manage the Section 31 process. The Section 31 process includes the consultation with parties that may be affected by, or have an interest, in the project. The purpose of this notice is to notify potential interested and affected parties (I&AP) of the commencement of the Section 31 process. Parties wishing to formally register as an I&AP are requested to forward their full contact details to Jared O'Brien at the details provided below. Registered I&APs will be forwarded all future correspondence, and notified of additional opportunities to participate in the process. The contact details of the EAP are as follows:

Name: Jared O'Brien
Tel: 011 361 1396
Fax: 086 505 3939
E-mail: Jared.OBrien@wspgroup.co.za
Address: PO Box 98867, Sloane Park, 2152

WSP | PARSONS BRINCKERHOFF

APPENDIX A-2

SITE NOTICE

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE

RUSTENBURG PLATINUM MINES (PTY) LTD, NEAR RUSTENBURG, NORTH WEST PROVINCE

Notice is given in terms of Section 31(1)(a)(i) of Government Notice Regulation (GNR 982) (04 December 2014) published under section 24(5) of the National Environmental Management Act (No. 107 of 1998), as amended (NEMA) for submission of an application for Environmental Authorisation in respect of activities which will result in a change of the scope of an existing valid environmental authorisation where such change will result in an increased level or nature of impact which was not considered during the initial environmental authorisation process undertaken

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is *25° 40' 17.58"S 27° 22' 46.66"E* (**Figure 1**). The shaft final operational area will cover less than 8 000 m^2. The ventilation shaft will be linked to the Mine road leading from Photshaneng, via a gravel road.

An Application form for Environmental Authorisation in terms of the NEMA has been submitted to the Department of Mineral Resources (DMR). The DMR is the competent authority in this case as the project is directly related to primary extraction of ore [according to the Section 24C(2A) of the NEM: Amendment Act (No. 62 of 2008)].

The proposed project does not trigger any listed activities in terms of the NEMA Regulations.

WSP Environmental (Pty) Ltd has been appointed as the independent Environmental Assessment Practitioner (EAP), to manage the Section 31 process (or 'Environmental Authorisation Amendment' process). The Section 31 process includes the consultation with parties that may be affected by, or have an interest, in the project. The purpose of this notice is to notify potential interested and affected parties (I&AP) of the commencement of the Section 31 process. Parties wishing to formally register as an I&AP are requested to forward their full contact details to Jared O'Brien at the details provided below. Registered I&APs will be forwarded all future correspondence, and notified of additional opportunities to participate in the process. The contact details of the EAP are as follows:

Name: Jared O'Brien
Tel: 011 361 1396 Fax: 086 505 3939
E-mail: Jared.OBrien@wspgroup.co.za
Address: PO Box 98867, Sloane Park, 2152

WSP | Parsons Brinckerhoff, Environment & Energy, Africa (WSP | Parsons Brinckerhoff) undertook a Screening-Level Environmental Acoustic Impact Assessment in anticipation of the expected noise emissions resulting from the proposed project's operational life. Measurements took place on 20 January 2016 during the day and at night to determine the base line conditions. Based on a sound power level of 105.1 Decibels [d(B)A] emanating from the fans at the proposed ventilation shaft site, **Tables 1** and **2** present the expected response from the surrounding communities, during both daytime and night-time, based on the expected increase in noise levels. **Figure 1** provides the noise monitoring locations.

Table 1: Predicted *daytime* noise levels at the residential receptors [in dB(A)]

Location	Noise level from proposed ventilation shaft	Baseline Noise Level	Cumulative Noise Level	Change in Noise Level	Estimated Community Response
SIP 01	38.7	36.7	40.8	+4.1	Little
SIP 02	40.2	64.0	64.0	0.0	Little
SIP 03	36.1	60.8	60.8	0.0	Little
SIP 04	41.0	59.3	59.4	+0.1	Little

Table 2: Predicted *night time* noise levels at the residential receptors [in dB(A)]

Location	Noise level from proposed ventilation shaft	Baseline Noise Level	Cumulative Noise Level	Change in Noise Level	Estimated Community Response
SIP 01	38.7	39.3	42.0	+2.7	Little
SIP 02	40.2	59.9	59.9	0.0	Little
SIP 03	36.1	54.5	54.6	+0.1	Little
SIP 04	41.0	58.1	58.2	+0.1	Little

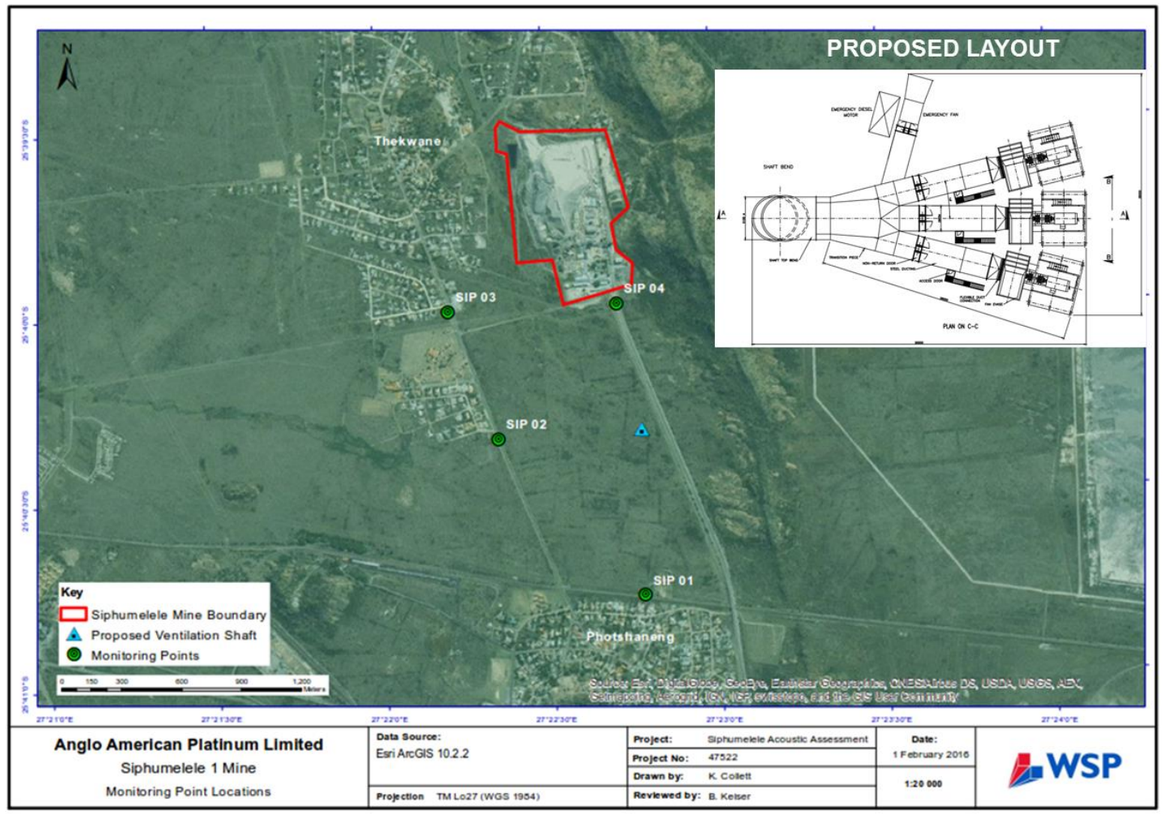
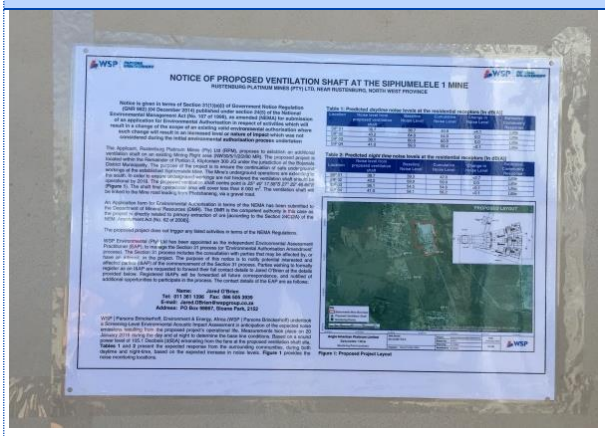


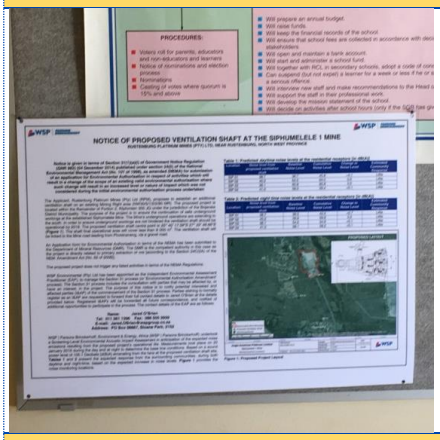
Figure 1: Proposed Project Layout

SITE NOTICE PHOTOGRAPH PLATE

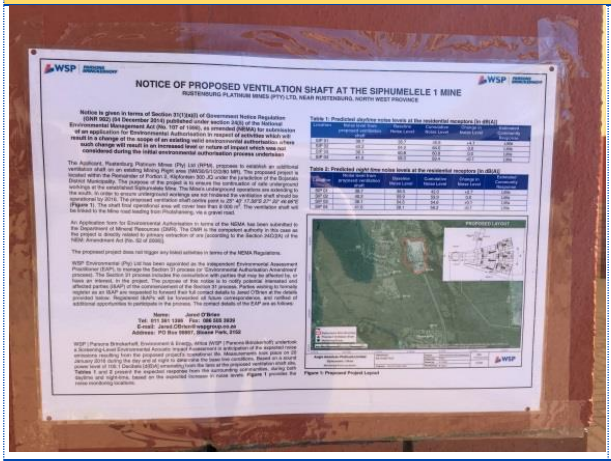
PHOTOGRAPHS



Siphumulele Mine entrance (25° 39’ 58.54” S 27° 22’ 41.60” E)

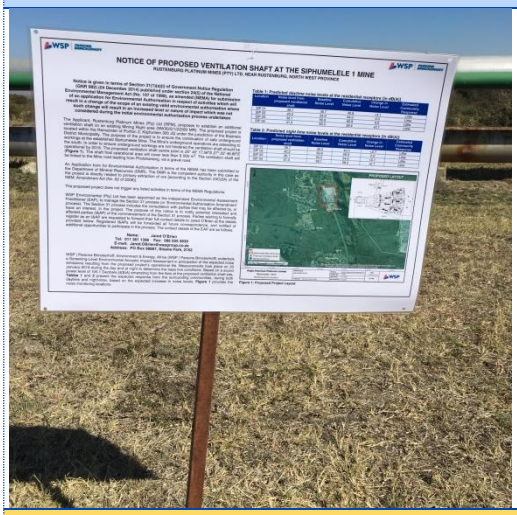


Tshukudu High School (25° 40’ 06.76’’ S 27° 22’ 15.37 E’’)



Photshaneng Primary School 25° 40’ 48.87’’ S 27° 22’ 27.81’’ E

PHOTOGRAPHS



Project site (25° 40 15.95 S 27° 22 48.96 E)

APPENDIX A-3

STAKEHOLDER NOTIFICATION RECORDS

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WSP Environmental (Pty) Ltd
Registered Number: 1995/08790/07

A member of the WSP Global Inc. Offices worldwide

WSP Reference no: 47522

12 August 2016

Attention: Stakeholder

Dear Sir/ Madam,

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is 25° 40' 17.58"S 27° 22' 46.66"E. The shaft final operational area will cover an area less than 8 000 m^2. The ventilation shaft will be linked to the Mine road leading from Photshaneng, via a gravel road.

2. LEGAL CONTEXT

Notice is given in terms of Section 31(1)(a)(i) of Government Notice Regulation (GNR 982) (04 December 2014) published under section 24(5) of the National Environmental Management Act (No. 107 of 1998), as amended (NEMA) for submission of an application for Environmental Authorisation in respect of activities which will result in a change of the scope of an existing valid environmental authorisation where such change will result in an increased level or nature of impact which was not considered during the initial environmental authorisation process undertaken

An Application form for Environmental Authorisation in terms of the NEMA has been submitted to the Department of Mineral Resources (DMR). The DMR is the competent authority in this case as the project is directly related to primary extraction of ore [according to the Section 24C(2A) of the NEM: Amendment Act (No. 62 of 2008)]. The proposed project does not trigger any listed activities in terms of the 2014 NEMA Regulations.

3. STAKEHOLDER REGISTRATION

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the Environmental Authorisation process, on behalf of RPM. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. All registered stakeholders will be notified of the availability of the draft Environmental Management Programme (EMPR) once the report has been compiled and released for public review. Registered stakeholders will have a period of 30 days in which to review and comment on the draft report. The draft report will be updated to include any comments before final submission to the DMR. Please ensure that you respond to this notification to ensure you are notified of the draft report distribution date. Comments are welcomed throughout the environmental authorisation process.

Yours faithfully,

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Sent: 12 August 2016 03:56 PM

Subject: Relayed: NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1

Subject: MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

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Subject: NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

Created Time	MSISDN	Status	Status Text	Origin Address	Body	Delivered Time	Batch ID
2016-08-12 17:37:52.0	27834558874	11	Delivered to phone	2782007229288014	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:55.0	577274755
2016-08-12 17:37:52.0	27834552764	11	Delivered to phone	2782007229288049	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27834557107	10	Delivered upstream	2783326006288055	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27835592939	11	Delivered to phone	2783326006288037	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27769581066	11	Delivered to phone	2782007229288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27834557109	11	Delivered to phone	2783326006288055	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27736492328	11	Delivered to phone	2783930060888033	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27735016126	11	Delivered to phone	2783930060888032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27824010799	11	Delivered to phone	2782007229288027	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27828233815	11	Delivered to phone	2782007229288006	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:54.0	577274755
2016-08-12 17:37:52.0	27837008485	10	Delivered upstream	2783326006288012	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27738137891	11	Delivered to phone	2783930060888052	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27849515370	10	Delivered upstream	2784000120188026	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834557709	11	Delivered to phone	2783326006288044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27828080268	11	Delivered to phone	2782007229288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27825157457	11	Delivered to phone	2782007229288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27834557773	32	Failed: blocked		NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27832743745	11	Delivered to phone	2783326006288048	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27828098956	11	Delivered to phone	2782007229288027	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27832743744	11	Delivered to phone	2783326006288037	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27823575882	11	Delivered to phone	2782007229288054	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27845171835	11	Delivered to phone	2784000120188054	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27788642000	11	Delivered to phone	2783326006288049	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27734801965	11	Delivered to phone	2783930060888032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27835818855	11	Delivered to phone	2783326006288050	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27833076877	10	Delivered upstream	2783326006288029	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27832342090	11	Delivered to phone	2783326006288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27783029150	11	Delivered to phone	2783326006288047	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27829506675	11	Delivered to phone	2782007229288035	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27824670912	11	Delivered to phone	2783326006288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27723813715	11	Delivered to phone	2782007229288057	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27836535621	10	Delivered upstream	2783326006288044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27825541258	11	Delivered to phone	2782007229288005	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:55.0	577274755
2016-08-12 17:37:52.0	27834746635	11	Delivered to phone	2783326006288009	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27763325256	10	Delivered upstream	2782007229288041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834880939	50	Failed	2783326006288037	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27825664051	11	Delivered to phone	2782007229288051	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27834888825	11	Delivered to phone	2782007229288019	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:05.0	577274755
2016-08-12 17:37:52.0	27829297796	50	Failed	2782007229288036	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:54.0	577274755
2016-08-12 17:37:52.0	27832899214	11	Delivered to phone	2783326006288011	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27825523035	50	Failed	2782007229288019	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:53.0	577274755
2016-08-12 17:37:52.0	27731390304	10	Delivered upstream	2783930060888035	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27835318319	11	Delivered to phone	2782007229288024	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27735416481	50	Failed	2783930060888035	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27829549758	11	Delivered to phone	2782007229288004	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27835473427	11	Delivered to phone	2783326006288034	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27723773036	11	Delivered to phone	2782007229288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27733672253	11	Delivered to phone	2783930060888004	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27824505881	11	Delivered to phone	2782007229288040	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:54.0	577274755
2016-08-12 17:37:52.0	27825523198	11	Delivered to phone	2782007229288050	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:59.0	577274755
2016-08-12 17:37:52.0	27825523047	10	Delivered upstream	2782007229288024	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27721296893	11	Delivered to phone	2782007229288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27733986642	11	Delivered to phone	2783930060888006	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27828093995	10	Delivered upstream	2782007229288041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27835848701	11	Delivered to phone	2783326006288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27834552783	50	Failed	2783326006288028	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27835366039	11	Delivered to phone	2783326006288029	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27825742697	50	Failed	2782007229288035	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:54.0	577274755
2016-08-12 17:37:52.0	27836537392	10	Delivered upstream	2783326006288042	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27829676847	10	Delivered upstream	2782007229288043	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834455605	11	Delivered to phone	2783326006288022	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27834557716	11	Delivered to phone	2782007229288030	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27828146063	10	Delivered upstream	2782007229288058	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828806599	11	Delivered to phone	2782007229288059	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:55.0	577274755
2016-08-12 17:37:52.0	27822966913	10	Delivered upstream	2782007229288029	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27765020087	10	Delivered upstream	2782007229288010	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27735031819	10	Delivered upstream	2784000120188039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834557089	11	Delivered to phone	2783326006288003	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27739405553	11	Delivered to phone	2783930060888031	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27724254770	11	Delivered to phone	2782007229288054	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27844126133	10	Delivered upstream	2784000120188004	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27733980691	50	Failed	2783930060888023	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27731101333	11	Delivered to phone	2783930060888036	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27845054365	10	Delivered upstream	2784000120188026	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27720604025	11	Delivered to phone	2782007229288052	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:59.0	577274755
2016-08-12 17:37:52.0	27725076332	50	Failed	2782007229288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:54.0	577274755
2016-08-12 17:37:52.0	27827706163	11	Delivered to phone	2782007229288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:54.0	577274755
2016-08-12 17:37:52.0	27822577805	11	Delivered to phone	2784000120188024	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755

2016-08-12 17:37:52.0	27833839298	10	Delivered upstream	2783326006288009	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27823339974	11	Delivered to phone	2782007229288041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:55.0	577274755
2016-08-12 17:37:52.0	27826820476	10	Delivered upstream	2782007229288052	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27767661933	10	Delivered upstream	2784000120188014	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27836398750	11	Delivered to phone	2783326006288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27737756494	11	Delivered to phone	2783930060888044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27839953997	11	Delivered to phone	2783326006288031	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27834314151	11	Delivered to phone	2783326006288008	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27721736164	10	Delivered upstream	2782007229288034	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27839264777	10	Delivered upstream	2783326006288042	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27732528666	10	Delivered upstream	2783930060888058	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27763593397	10	Delivered upstream	2782007229288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27722094691	10	Delivered upstream	2782007229288005	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27838743372	11	Delivered to phone	2783326006288051	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27732540987	10	Delivered upstream	2784000120188005	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27822003885	10	Delivered upstream	2782007229288050	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27824670886	11	Delivered to phone	2783326006288027	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27832853184	11	Delivered to phone	2783326006288054	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27825438970	11	Delivered to phone	2782007229288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27791133109	10	Delivered upstream	2782007229288040	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27825523117	10	Delivered upstream	2782007229288026	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828028767	11	Delivered to phone	2782007229288049	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27765290687	10	Delivered upstream	2782007229288044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27721723982	11	Delivered to phone	2782007229288023	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:02.0	577274755
2016-08-12 17:37:52.0	27835492745	10	Delivered upstream	2783326006288045	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27781450329	10	Delivered upstream	2783326006288020	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828553259	10	Delivered upstream	2783326006288044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27726720867	10	Delivered upstream	2782007229288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27742883669	10	Delivered upstream	2784000120188026	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834478279	11	Delivered to phone	2783326006288025	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27825545449	11	Delivered to phone	2782007229288050	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27834925521	11	Delivered to phone	2783326006288026	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27842913188	10	Delivered upstream	2784000120188034	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27836537063	10	Delivered upstream	2783326006288044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27766123820	10	Delivered upstream	2782007229288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828905896	11	Delivered to phone	2783326006288042	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27766992366	11	Delivered to phone	2782007229288044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27837574196	50	Failed	2783326006288053	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27834551654	10	Delivered upstream	2783326006288016	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27837454809	11	Delivered to phone	2783326006288000	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27828076087	11	Delivered to phone	2782007229288057	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27836880169	11	Delivered to phone	2783326006288050	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27764703930	11	Delivered to phone	2782007229288006	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27834564268	10	Delivered upstream	2783326006288022	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27733191659	11	Delivered to phone	2784000120188049	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27839891939	11	Delivered to phone	2783326006288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27829254889	11	Delivered to phone	2782007229288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27828783741	50	Failed	2782007229288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:55.0	577274755
2016-08-12 17:37:52.0	27829787771	11	Delivered to phone	2782007229288019	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:56.0	577274755
2016-08-12 17:37:52.0	27826229128	11	Delivered to phone	2783326006288034	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27732297827	10	Delivered upstream	2783930060888033	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27721999946	10	Delivered upstream	2782007229288037	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27826005798	10	Delivered upstream	2782007229288037	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27823393595	11	Delivered to phone	2782007229288015	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27829690518	11	Delivered to phone	2782007229288059	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27828999233	50	Failed	2782007229288018	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:55.0	577274755
2016-08-12 17:37:52.0	27828331755	10	Delivered upstream	2783326006288045	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27723422250	11	Delivered to phone	2782007229288015	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27767804863	11	Delivered to phone	2782007229288047	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27832366213	11	Delivered to phone	2783326006288018	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27833363954	11	Delivered to phone	2783326006288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27827704148	11	Delivered to phone	2782007229288057	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27828011192	10	Delivered upstream	2782007229288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27827738109	11	Delivered to phone	2782007229288047	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:59.0	577274755
2016-08-12 17:37:52.0	27833240306	10	Delivered upstream	2783326006288030	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27832802373	11	Delivered to phone	2783326006288035	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27836270511	11	Delivered to phone	2783326006288049	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27834552696	10	Delivered upstream	2782007229288030	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828065863	11	Delivered to phone	2782007229288033	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:08.0	577274755
2016-08-12 17:37:52.0	27762681649	11	Delivered to phone	2782007229288010	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:02.0	577274755
2016-08-12 17:37:52.0	27732839908	10	Delivered upstream	2783930060888011	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27734566874	11	Delivered to phone	2783930060888005	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27834558153	11	Delivered to phone	2782007229288058	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:59.0	577274755
2016-08-12 17:37:52.0	27729799994	11	Delivered to phone	2782007229288019	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27726004394	11	Delivered to phone	2782007229288009	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27731951182	10	Delivered upstream	2783930060888004	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828092281	10	Delivered upstream	2782007229288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834746636	11	Delivered to phone	2783326006288013	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27832520941	11	Delivered to phone	2782007229288047	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755

2016-08-12 17:37:52.0	27832576504	11	Delivered to phone	2783326006288013	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27820400536	11	Delivered to phone	2782007229288006	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:59.0	577274755
2016-08-12 17:37:52.0	27791541292	50	Failed	2784000120188048	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27725119697	11	Delivered to phone	2782007229288026	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27735152472	50	Failed	2783930060888045	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27834638919	11	Delivered to phone	2782007229288000	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27763174741	10	Delivered upstream	2782007229288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27784194890	11	Delivered to phone	2783326006288047	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27847759911	10	Delivered upstream	2784000120188041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27787981450	11	Delivered to phone	2783326006288058	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27732766304	10	Delivered upstream	2783930060888041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27781983336	10	Delivered upstream	2783326006288000	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27719136346	10	Delivered upstream	2783326006288000	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27781990437	11	Delivered to phone	2783326006288012	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27781838763	11	Delivered to phone	2783326006288001	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27720389751	11	Delivered to phone	2782007229288053	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:06.0	577274755
2016-08-12 17:37:52.0	27764646004	11	Delivered to phone	2782007229288009	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27724087741	11	Delivered to phone	2782007229288055	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27735786698	11	Delivered to phone	2783930060888025	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27726024312	10	Delivered upstream	2784000120188036	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27726326065	11	Delivered to phone	2782007229288050	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:02.0	577274755
2016-08-12 17:37:52.0	27731985634	11	Delivered to phone	2783930060888044	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27781477993	11	Delivered to phone	2783326006288052	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27737171268	10	Delivered upstream	2783930060888057	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27711625959	11	Delivered to phone	2782007229288034	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27731594088	11	Delivered to phone	2783930060888017	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27722657469	10	Delivered upstream	2782007229288038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27735769160	11	Delivered to phone	2783930060888004	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27789067911	10	Delivered upstream	2783326006288007	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27785640767	11	Delivered to phone	2783326006288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27731785342	10	Delivered upstream	2783930060888014	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27723779016	11	Delivered to phone	2782007229288056	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27737912031	11	Delivered to phone	2783930060888035	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27736218874	10	Delivered upstream	2783930060888059	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27822687590	10	Delivered upstream	2782007229288043	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27788235896	11	Delivered to phone	2783326006288042	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27832107368	11	Delivered to phone	2783326006288041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27783435713	10	Delivered upstream	2783326006288047	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27847527525	10	Delivered upstream	2784000120188041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27835753442	11	Delivered to phone	2783326006288018	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27786999766	10	Delivered upstream	2783326006288028	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27736944154	11	Delivered to phone	2783930060888024	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27784299534	10	Delivered upstream	2783326006288017	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27796799275	10	Delivered upstream	2782007229288054	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27737072355	11	Delivered to phone	2783930060888038	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27834557011	50	Failed	2783326006288019	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27832960420	11	Delivered to phone	2782007229288059	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27833086227	11	Delivered to phone	2783326006288033	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27833241334	11	Delivered to phone	2783326006288041	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27796956803	10	Delivered upstream	2782007229288031	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828003574	11	Delivered to phone	2782007229288040	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27733614320	10	Delivered upstream	2783930060888007	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27761748588	11	Delivered to phone	2782007229288037	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:04.0	577274755
2016-08-12 17:37:52.0	27736010158	10	Delivered upstream	2783930060888006	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27713242151	10	Delivered upstream	2782007229288001	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27834551639	11	Delivered to phone	2782007229288032	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27837033919	50	Failed	2783326006288043	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:00.0	577274755
2016-08-12 17:37:52.0	27781436358	10	Delivered upstream	2783326006288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27786514866	11	Delivered to phone	2783326006288001	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27844006945	10	Delivered upstream	2784000120188014	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27828276214	11	Delivered to phone	2782007229288042	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27829419641	11	Delivered to phone	2783326006288001	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27738515767	10	Delivered upstream	2783930060888030	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27766045346	11	Delivered to phone	2782007229288022	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27725859460	11	Delivered to phone	2782007229288040	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:00.0	577274755
2016-08-12 17:37:52.0	27828407929	11	Delivered to phone	2782007229288055	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:57.0	577274755
2016-08-12 17:37:52.0	27832986280	11	Delivered to phone	2782007229288015	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:59.0	577274755
2016-08-12 17:37:52.0	27828968222	10	Delivered upstream	2783326006288021	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27827369051	11	Delivered to phone	2782007229288036	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27726073465	11	Delivered to phone	2782007229288033	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:38:01.0	577274755
2016-08-12 17:37:52.0	27828953516	11	Delivered to phone	2782007229288039	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY	2016-08-12 17:37:58.0	577274755
2016-08-12 17:37:52.0	27822005989	10	Delivered upstream	2782007229288036	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
2016-08-12 17:37:52.0	27724254776	10	Delivered upstream	2782007229288052	NOTICE OF PROPOSED VENTILATION SHAFT AT RPM SIPHUMELELE 1 MINE. COMMENTS ARE WELCOME. CONTACT JARED 011 361 1396 FOR DETAILS REGARDING DRAFT EMPR AVAILABILITY		577274755
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TX Result Report

P 1
15/08/2016 12:02
Serial No. A2X1047001572
TC: 167011

Addressee	Start Time	Time	Prints	Result	Note
0866115996	08-15 11:58	00:03:38	001/001	OK	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, PCS:Page separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF, TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer, Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LOVR:Receiving length Over, PNUR:Receiving page Over, FTE:File Error, DC:Decode Error, MDN:MDN Response Error, DSN:DSN Response Error, PRINT:Compulsory Memory Document Print, DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document Send.

WSP

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WSP Environmental (Pty) Ltd
Registered Number: 1998/08790/07

A member of the WSP Global Inc. Offices worldwide

WSP Reference no: 47522

12 August 2016

Attention: Stakeholder

Dear Sir/ Madam,

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is 25° 40' 17.58"S 27° 22' 46.66"E. The shaft final operational area will cover an area less than 8 000 m². The ventilation shaft will be linked to the Mine road leading from Photsaneng, via a gravel road.

2. LEGAL CONTEXT

Notice is given in terms of Section 31(1)(a)(i) of Government Notice Regulation (GNR 982) (04 December 2014) published under section 24(5) of the National Environmental Management Act (No. 107 of 1998), as amended (NEMA) for submission of an application for Environmental Authorisation in respect of activities which will result in a change of the scope of an existing valid environmental authorisation where such change will result in an increased level or nature of impact which was not considered during the initial environmental authorisation process undertaken

An Application form for Environmental Authorisation in terms of the NEMA has been submitted to the Department of Mineral Resources (DMR). The DMR is the competent authority in this case as the project is directly related to primary extraction of ore [according to the Section 24C(2A) of the NEM: Amendment Act (No. 62 of 2008)]. The proposed project does not trigger any listed activities in terms of the 2014 NEMA Regulations.

3. STAKEHOLDER REGISTRATION

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the Environmental Authorisation process, on behalf of RPM. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. All registered stakeholders will be notified of the availability of the draft Environmental Management Programme (EMPR) once the report has been compiled and released for public review. Registered stakeholders will have a period of 30 days in which to review and comment on the draft report. The draft report will be updated to include any comments before final submission to the DMR. Please ensure that you respond to this notification to ensure you are notified of the draft report distribution date. Comments are welcomed throughout the environmental authorisation process.

Yours faithfully,

Jared O'Brien
Senior Environmental Consultant
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Mobile: +27 84 951 2164
Fax: +27 86 606 3939
Email: Jared.O'Brien@WSPGroup.co.za

Addressee	Start Time	Time	Prints	Result	Note
0866047477	08-15 10:54	00:03:41	001/001	OK	
0866649511	08-15 10:58	00:03:43	001/001	OK	
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0145653921	08-15 12:18	00:00:57	000/001	No Ans	
0145981552	08-15 12:19	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPS:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

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WSP

WSP Environmental (Pty) Ltd

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Registered Number: 1998/08790/07

A member of the WSP Global Inc. Offices worldwide

WSP Reference no: 47522

12 August 2016

Attention: Stakeholder

Dear Sir/ Madam,

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2016. The proposed ventilation shaft centre point is 25° 40' 17.58"S 27° 22' 46.66"E. The shaft final operational area will cover an area less than 8 000 m². The ventilation shaft will be linked to the Mine road leading from Photshaneng, via a gravel road.

2. LEGAL CONTEXT

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Fax: +27 86 505 3939
Email: Jared.O'Brien@WSPGroup.co.za

Broadcast Report

15/08/2016 13:32
Serial No. A2X1047001572
TC: 167054

Addressee	Start Time	Time	Prints	Result	Note
0145926298	08-15 12:39	00:00:44	000/001	NG	
0145927596	08-15 12:34	00:00:27	001/001	OK	
0145922910	08-15 13:16	00:00:57	000/001	No Ans	
0186629036	08-15 13:17	00:00:57	000/001	No Ans	
0145903003	08-15 13:18	00:00:57	000/001	No Ans	
0145903015	08-15 13:20	00:00:57	000/001	No Ans	
0145903421	08-15 13:21	00:00:57	000/001	No Ans	
0145928861	08-15 13:22	00:00:57	000/001	No Ans	
0123485668	08-15 13:23	00:00:57	000/001	No Ans	
0119691642	08-15 13:24	00:00:56	000/001	No Ans	
0113735530	08-15 13:25	00:00:57	000/001	No Ans	
0145661326	08-15 13:31	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

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12 August 2016

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Email: Jared.O'Brien@WSPGroup.co.za

Addressee	Start Time	Time	Prints	Result	Note
0114636176	08-15 13:32	00:00:40	001/001	OK	
0866181455	08-15 13:34	00:03:42	001/001	OK	
0145661297	08-15 13:49	00:00:57	000/001	No Ans	

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Addressee	Start Time	Time	Prints	Result	Note
0145903047	08-15 13:51	00:00:30	001/001	OK	
0145903497	08-15 14:00	00:00:27	001/001	OK	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

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Addressee	Start Time	Time	Prints	Result	Note
0145906002	08-15 14:03	00:00:29	001/001	OK	
0145903411	08-15 14:09	00:00:31	001/001	OK	
0145363124	08-15 14:32	00:00:57	000/001	No Ans	
0145965390	08-15 14:45	00:00:57	000/001	No Ans	
0145697033	08-15 14:46	00:00:57	000/001	No Ans	
0122523565	08-15 14:48	00:00:56	000/001	No Ans	
0145965061	08-15 14:49	00:00:57	000/001	No Ans	
0145967056	08-15 14:50	00:00:57	000/001	No Ans	
0145923400	08-15 14:51	00:00:57	000/001	No Ans	

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12 August 2016

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Addressee	Start Time	Time	Prints	Result	Note
0145699535	08-15 14:53	00:01:21	001/001	OK	
0145966130	08-15 14:56	00:00:41	001/001	OK	
0145923553	08-15 14:57	00:00:59	001/001	OK	
0866505236	08-15 14:59	00:02:33	001/001	OK	
0145661308	08-15 15:04	00:01:11	001/001	OK	
0145928861	08-15 15:33	00:00:57	000/001	No Ans	
0145364020	08-15 15:34	00:00:57	000/001	No Ans	
0145332014	08-15 15:35	00:00:57	000/001	No Ans	
0145664418	08-15 15:36	00:00:57	000/001	No Ans	
0145661320	08-15 15:37	00:00:57	000/001	No Ans	
0145973924	08-15 15:39	00:00:57	000/001	No Ans	
0145363701	08-15 15:40	00:00:57	000/001	No Ans	

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WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the Environmental Authorisation process, on behalf of RPM. The process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. All registered stakeholders will be notified of the availability of the draft Environmental Management Programme (EMPR) once the report has been compiled and released for public review. Registered stakeholders will have a period of 30 days in which to review and comment on the draft report. The draft report will be updated to include any comments before final submission to the DMR. Please ensure that you respond to this notification to ensure you are notified of the draft report distribution date. Comments are welcomed throughout the environmental authorisation process.

Yours faithfully,

Jared O'Brien
Senior Environmental Consultant
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Email: Jared.O'Brien@WSPGroup.co.za

Addressee	Start Time	Time	Prints	Result	Note
0865124158	08-15 15:43	00:03:41	001/001	OK	
0145903411	08-15 15:48	00:00:27	001/001	OK	
0145903055	08-15 15:50	00:00:26	001/001	OK	
0117262848	08-15 16:25	00:00:57	000/001	No Ans	
0117263121	08-15 16:26	00:00:57	000/001	No Ans	
0113735249	08-15 16:28	00:00:57	000/001	No Ans	
0145679273	08-15 16:29	00:00:57	000/001	No Ans	
0113735756	08-15 16:30	00:00:57	000/001	No Ans	
0115903070	08-15 16:31	00:00:56	000/001	No Ans	
0145914455	08-15 16:32	00:00:57	000/001	No Ans	
0113735862	08-15 16:33	00:00:57	000/001	No Ans	
0145982191	08-15 16:34	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF, TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer, Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LoVR:Receiving length Over, POVR:Receiving page Over, FIL:File Error, DC:Decode Error, MDN:MDN Response Error, DSN:DSN Response Error, PRINT:Compulsory Memory Document Print, DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document Send.

WSP Environmental (Pty) Ltd

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Web: http://www.wspgroup.co.za

WSP Environmental (Pty) Ltd
Registered Number: 1998/007800/07

A member of the WSP Global Inc. Offices worldwide

WSP Reference no: 47522

12 August 2016

Attention: Stakeholder

Dear Sir/ Madam,

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is 25° 40' 17.58"S 27° 22' 46.66"E. The shaft final operational area will cover an area less than 6 000 m². The ventilation shaft will be linked to the Mine road leading from Photshaneng, via a gravel road.

2. LEGAL CONTEXT

Notice is given in terms of Section 31(1)(a)(i) of Government Notice Regulation (GNR 982) (04 December 2014) published under section 24(5) of the National Environmental Management Act (No. 107 of 1998), as amended (NEMA) for submission of an application for Environmental Authorisation in respect of activities which will result in a change of the scope of an existing valid environmental authorisation where such change will result in an increased level or nature of impact which was not considered during the initial environmental authorisation process undertaken

An Application form for Environmental Authorisation in terms of the NEMA has been submitted to the Department of Mineral Resources (DMR). The DMR is the competent authority in this case as the project is directly related to primary extraction of ore [according to the Section 24C(2A) of the NEM: Amendment Act (No. 62 of 2008)]. The proposed project does not trigger any listed activities in terms of the 2014 NEMA Regulations.

3. STAKEHOLDER REGISTRATION

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Addressee	Start Time	Time	Prints	Result	Note
0145972241	08-15 20:50	00:01:03	001/001	OK	
0145903388	08-15 20:51	00:00:26	001/001	OK	
0867602441	08-15 20:52	00:04:43	001/001	OK	
0865556593	08-15 20:57	00:02:34	001/001	OK	
0112686885	08-15 21:13	00:00:57	000/001	No Ans	
0184629036	08-15 21:15	00:00:57	000/001	No Ans	

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Registered Number: 1995/08790/07

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WSP Reference no: 47522

12 August 2016

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1. PROJECT DESCRIPTION AND LOCATION

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2. LEGAL CONTEXT

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Addressee	Start Time	Time	Prints	Result	Note
0145911161	08-15 21:20	00:01:04	001/001	OK	
0145911793	08-15 21:21	00:00:56	001/001	OK	
0862974971	08-15 21:23	00:02:33	001/001	OK	
0865676069	08-15 21:27	00:03:40	001/001	OK	
0866187847	08-15 21:31	00:01:59	001/001	OK	
0145914567	08-15 21:44	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX,
DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC,
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Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF,
TEL: RX from TEL, NG: Other Error, CONT: Continue, NO ANS: NO Answer,
Refuse: Receipt Refused, BUSY: Busy, M-FUL:Memory Full, LOVR:Receiving length Over,
POVR:Receiving page Over, FIL:File Error, DC:Decode Error, MDN:MDN Response Error,
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DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document Send.

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Offices worldwide

WSP Reference no: 47622

12 August 2016

Attention: Stakeholder

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1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2016. The proposed ventilation shaft centre point is 25° 40' 17.56"S 27° 22' 46.66"E. The shaft final operational area will cover an area less than 8 000 m². The ventilation shaft will be linked to the Mine road leading from Photshaneng, via a gravel road.

2. LEGAL CONTEXT

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15/08/2016 18:15
Serial No. A2X1047001572
TC: 167198

RX

No.	Addressee	Start Time	Time	Prints	Result	Note
259	0392551747	08-04 10:08	00:00:59	001/001	OK	
260	0392551747	08-04 10:44	00:00:48	001/001	OK	
261	0392551747	08-10 10:09	00:03:42	002/002	OK	
262	DEFAULTCSID	08-11 12:12	00:01:01	001/001	OK	
263		08-11 13:19	00:00:49	000/000	TEL	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX,
DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC,
FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SPI:Special Original,
FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax,
IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF,
TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer,
Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LOVR:Receiving length Over,
POVR:Receiving page Over, FIL:File Error, DC:Decode Error, MDN:MDN Response Error,
DSN:DSN Response Error, PRINT:Compulsory Memory Document Print,
DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document Send.

15/08/2016 18:25
Serial No. A2X1047001572
TC: 167201

Addressee	Start Time	Time	Prints	Result	Note
0145679190	08-15 16:49	00:01:06	000/001	NG	
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0145914684	08-15 18:11	00:00:57	000/001	No Ans	
0113735759	08-15 18:12	00:00:57	000/001	No Ans	
0113735145	08-15 18:14	00:00:57	000/001	No Ans	
0113735219	08-15 18:15	00:00:57	000/001	No Ans	
0145915008	08-15 18:16	00:00:57	000/001	No Ans	
0145731606	08-15 18:17	00:00:57	000/001	No Ans	
0113735436	08-15 18:18	00:00:57	000/001	No Ans	
0145904150	08-15 18:19	00:00:57	000/001	No Ans	
0113735894	08-15 18:20	00:00:57	000/001	No Ans	
0145920244	08-15 18:21	00:00:57	000/001	No Ans	
0145664368	08-15 18:23	00:00:57	000/001	No Ans	
0145661296	08-15 18:24	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX,
DPS:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC,
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Offices worldwide

WSP Reference no: 47522

12 August 2016

Attention: Stakeholder

Dear Sir/ Madam,

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is 25° 40' 17.58"S 27° 22' 46.66"E. The shaft final operational area will cover an area less than 8 000 m². The ventilation shaft will be linked to the Mine road leading from Photsaneng, via a gravel road.

2. LEGAL CONTEXT

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Addressee	Start Time	Time	Prints	Result	Note
0145363652	08-15 18:43	00:00:56	000/001	No Ans	
0145982039	08-15 18:45	00:00:54	001/001	OK	
0145654709	08-15 19:02	00:00:57	000/001	No Ans	
0145972384	08-15 19:03	00:00:57	000/001	No Ans	
0145661311	08-15 19:05	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPG:Page separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, ATX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

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WSP Reference no: 47522

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1. PROJECT DESCRIPTION AND LOCATION

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Addressee	Start Time	Time	Prints	Result	Note
0866346044	08-15 19:06	00:02:33	001/001	OK	
0145903411	08-15 19:27	00:00:28	001/001	OK	
0145903015	08-15 19:43	00:00:57	000/001	No Ans	
0145548593	08-15 19:44	00:00:57	000/001	No Ans	
0145561296	08-15 19:45	00:00:57	000/001	No Ans	
0145652843	08-15 19:46	00:00:57	000/001	No Ans	
0145903111	08-15 19:47	00:00:57	000/001	No Ans	
0145970907	08-15 19:48	00:00:57	000/001	No Ans	
0145928816	08-15 19:50	00:00:57	000/001	No Ans	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX,
DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC,
FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original,
FCODE:F-code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax,
IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF,
TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer,
Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LOVR:Receiving length Over,
POVR:Receiving page Over, FIL:File Error, DC:Decode Error, MDN:MDN Response Error,
DSN:DSN Response Error, PRINT:Compulsory Memory Document Print,
DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document Send.

WSP

WSP Environmental (Pty) Ltd

South View, Bryanston Place Office Park
199 Bryanston Drive, Bryanston
Republic of South Africa, 2191
PO Box 98867, Sloane Park, 2152
Tel: +27 (0)11 361 1350
E-mail: wspe@wspgroup.co.za
Web: http://www.wspgroup.co.za

WSP Environmental (Pty) Ltd
Registered Number: 1998/008790/07

A member of the WSP Global Inc. Offices worldwide

WSP Reference no: 47522

12 August 2016

Attention: **Stakeholder**

Dear Sir/ Madam,

NOTICE OF PROPOSED VENTILATION SHAFT AT THE SIPHUMELELE 1 MINE AT RUSTENBURG PLATINUM MINES (PTY) LTD - RUSTENBURG SECTION LOCATED NEAR RUSTENBURG WITHIN THE NORTH WEST PROVINCE

1. PROJECT DESCRIPTION AND LOCATION

The Applicant, Rustenburg Platinum Mines (Pty) Ltd (RPM), proposes to establish an additional ventilation shaft on an existing Mining Right area (NW30/5/1/2/2/80 MR). The proposed project is located within the Remainder of Portion 2, Klipfontein 300 JQ under the jurisdiction of the Bojanala District Municipality. The purpose of the project is to ensure the continuation of safe underground workings at the established Siphumelele Mine. The Mine's underground operations are extending to the south. In order to ensure underground workings are not hindered the ventilation shaft should be operational by 2018. The proposed ventilation shaft centre point is 25° 40' 17.68"S 27° 22' 49.66"E. The shaft final operational area will cover an area less than 8 000 m². The ventilation shaft will be linked to the Mine road leading from Photsaneng, via a gravel road.

2. LEGAL CONTEXT

Notice is given in terms of Section 31(1)(a)(i) of Government Notice Regulation (GNR 982) (04 December 2014) published under section 24(5) of the National Environmental Management Act (No. 107 of 1998), as amended (NEMA) for submission of an application for Environmental Authorisation in respect of activities which will result in a change of the scope of an existing valid environmental authorisation where such change will result in an increased level or nature of impact which was not considered during the initial environmental authorisation process undertaken

An Application form for Environmental Authorisation in terms of the NEMA has been submitted to the Department of Mineral Resources (DMR). The DMR is the competent authority in this case as the project is directly related to primary extraction of ore [according to the Section 24C(2A) of the NEM: Amendment Act (No. 62 of 2008)]. The proposed project does not trigger any listed activities in terms of the 2014 NEMA Regulations.

3. STAKEHOLDER REGISTRATION

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the Environmental Authorisation process, on behalf of RPM. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. All registered stakeholders will be notified of the availability of the draft Environmental Management Programme (EMPR) once the report has been compiled and released for public review. Registered stakeholders will have a period of 30 days in which to review and comment on the draft report. The draft report will be updated to include any comments before final submission to the DMR. Please ensure that you respond to this notification to ensure you are notified of the draft report distribution date. Comments are welcomed throughout the environmental authorisation process.

Yours faithfully,

Jared O'Brien
Senior Environmental Consultant
Tel: +27 11 361 1396
Mobile: +27 84 951 2164
Fax: +27 86 505 3939
Email: Jared.O'Brien@WSPGroup.co.za

Broadcast Report

15/08/2016 20:48
Serial No. A2X1047001572
TC: 167204

Addressee	Start Time	Time	Prints	Result	Note
0145903006	08-15 19:52	00:00:46	001/001	OK	
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0145906002	08-15 20:08	00:01:06	000/001	NG	
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0145903388	08-15 20:18	00:00:40	001/001	OK	
0145331795	08-15 20:42	00:00:57	000/001	No Ans	
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0183873144	08-15 20:44	00:00:57	000/001	No Ans	
0145903003	08-15 20:45	00:00:57	000/001	No Ans	
0112805505	08-15 20:47	00:00:57	000/001	No Ans	

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WSP

WSP Environmental (Pty) Ltd

South View, Bryanston Place Office Park
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Offices worldwide

WSP Reference no: 47522

12 August 2016

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Yours faithfully,

Jared O'Brien
Senior Environmental Consultant
Tel: +27 11 361 1396
Mobile: +27 84 951 2164
Fax: +27 86 505 3939
Email: Jared.O'Brien@WSPGroup.co.za

15/08/2016 18:15
Serial No. A2X1047001572
TC: 167198

Send

No.	Addressee	Start Time	Time	Prints	Result	Note
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324	0145363701	08-15 15:40	00:00:57	000/001	No Ans	
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Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX,
DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC,
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Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LOVR:Receiving length Over,
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15/08/2016 18:15
Serial No. A2X1047001572
TC: 167198

Send

No.	Addressee	Start Time	Time	Prints	Result	Note
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324	0145699535	08-15 14:53	00:01:21	001/001	OK	
324	0145966130	08-15 14:56	00:00:41	001/001	OK	

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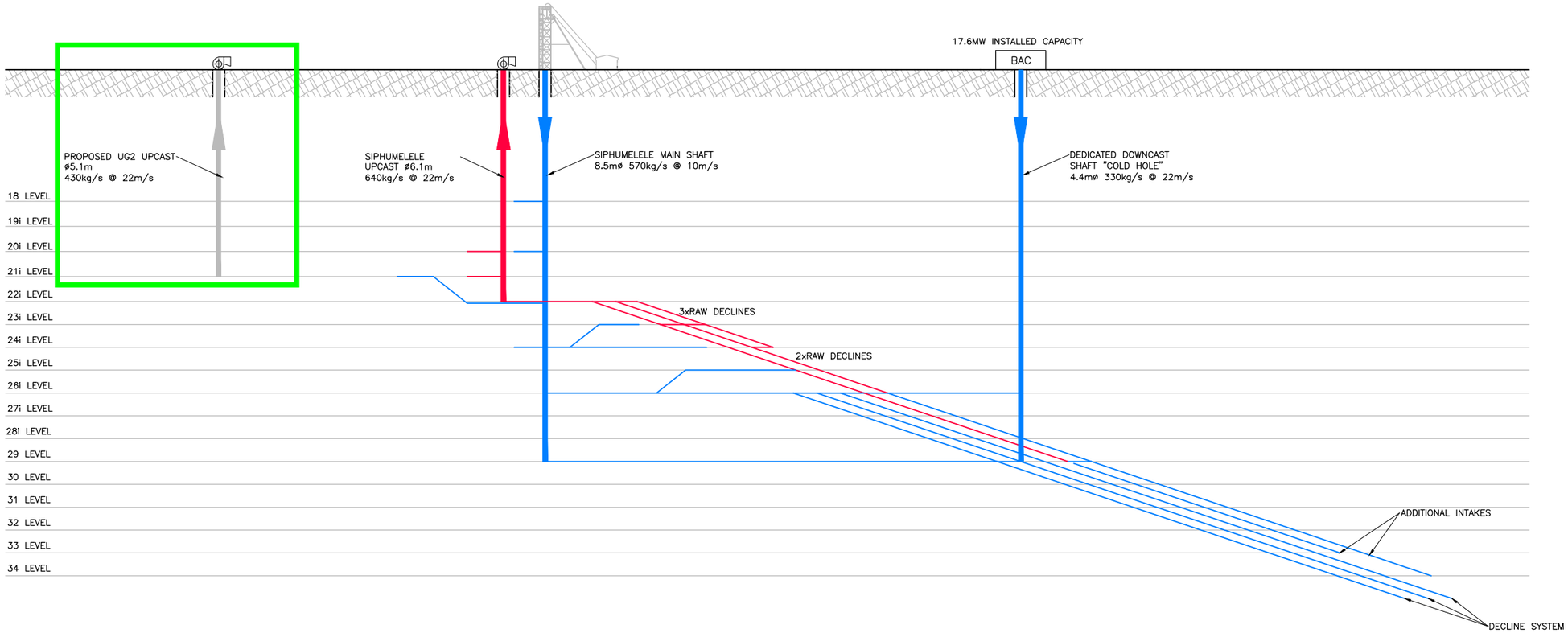
Appendix B

SUITE OF PROJECT DESIGN DRAWINGS



LEVEL	DEPTH (m)	VRT (°C)	STRIKE LENGTHS EAST (m)	STRIKE LENGTHS WEST (m)
18 LEVEL	.	.	.	.
19 LEVEL	.	.	.	.
20 LEVEL	.	.	.	.
21 LEVEL	.	.	.	.
22 LEVEL	.	.	.	.
23 LEVEL	.	.	.	.
24 LEVEL	.	.	.	.
25 LEVEL	.	.	.	.
26 LEVEL	.	.	.	.
27 LEVEL	.	.	.	.
28 LEVEL	1075m	46.4 °C	2500	1900
29 LEVEL	1111m	47.1 °C	2500	1900
30 LEVEL	1147m	47.8 °C	2250	1700
31 LEVEL	1190m	48.7 °C	2400	1700
32 LEVEL	1238m	49.7 °C	2400	1700
33 LEVEL	1291m	50.7 °C	2400	1700
34 LEVEL	1350m	51.9 °C	2400	1650

INTAKE AIRWAYS	AREA (m^2)	DESIGN VELOCITY (m/s)	CAPACITY (kg/s)
MATERIAL DECLINE	8	7	56
CHAIRLIFT DECLINE	12	6	72
CONVEYOR DECLINE	10	5	50
		TOTAL	173

ISSUED FOR FEASIBILITY STUDY

DRG. No.	REFERENCE DRAWINGS
.	.

REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
.	.	.	.	.

REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
A	06-08-2015	PRELIMINARY ISSUED FOR DISCUSSION	R.O.	.

CLIENT		
RESPONSIBLE	NAME	DATE
PROJECT ENG.		
MECHANICAL ENG.		
CIVIL/STRUC ENG.		
ELECTRICAL ENG.		
INSTRUMENT ENG.		
VENT. ENG.		
LOSS CONTROL		

BBE CONSULTING		
RESPONSIBLE	NAME	DATE
PROCESS ENG.		
MECHANICAL ENG.		
CIVIL/STRUC ENG.		
ELECTRICAL ENG.		
INSTRUMENT ENG.		
LEAD ENG.		
PR. ENG.		
PR. ENG. No.		

BBE CONSULTING
Mine Ventilation and Refrigeration Specialists
PO BOX 786012
SANDTON 2146
SOUTH AFRICA
TEL: +27(0)11 706-9800
FAX: +27(0)11 706-6931
www.bbe.co.za e-mail: bbe@bbe.co.za

CLIENT: ANGLO PLATINUM
PROJECT CONDOR

TITLE: SCHEMATIC OF SIPHUMELELE PRIMARY VENTILATION INFRASTRUCTURE

CLIENT: SNR. MINING ENG. F.M.G. EGERTON

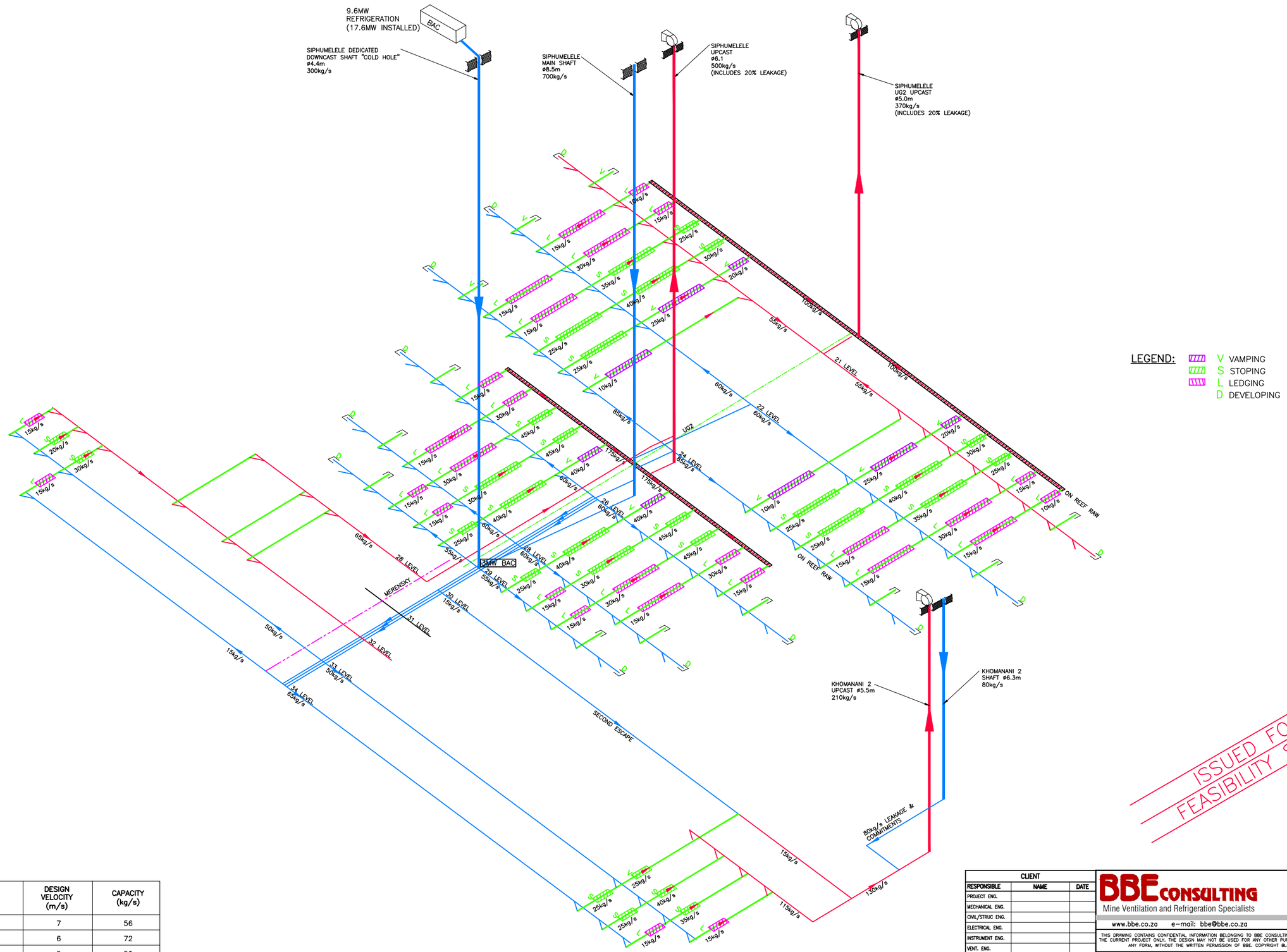
BBE: LEAD ENGINEER R. McINTYRE

SCALE :- NTS

SIZE	PROJECT CODE	DISCIPLINE	DRG. No.	SHT. No.	REVISION
A1	15139-06-011-01				A

bbe-rudie 2015-09-17

Z:\15139 CC Thembelani Feasibility Study\Thembalani\15139-06-011-01-(RA)-B, 2015-9-18 2:42 PM, Rudie Oosterhuisa



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DRG. No.	REFERENCE DRAWINGS
.	.

REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
.	.	.	.	.

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A	06-08-2015	PRELIMINARY ISSUED FOR DISCUSSION	R.O.	.

CLIENT		
RESPONSIBLE	NAME	DATE
PROJECT ENG.		
MECHANICAL ENG.		
CIVIL/STRUC ENG.		
ELECTRICAL ENG.		
INSTRUMENT ENG.		
VENT. ENG.		
LOSS CONTROL		

BBE CONSULTING		
RESPONSIBLE	NAME	DATE
PROCESS ENG.		
MECHANICAL ENG.		
CIVIL/STRUC ENG.		
ELECTRICAL ENG.		
INSTRUMENT ENG.		
LEAD ENG.		
PR. ENG.		
PR. ENG. No.		

BBE CONSULTING
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SOUTH AFRICA
TEL: +27(0)11 706-9800
FAX: +27(0)11 706-6931
www.bbe.co.za e-mail: bbe@bbe.co.za

CLIENT: ANGLO PLATINUM
PROJECT CONDOR

CLIENT: SNR. MINING ENG. F.M.G. EGERTON

BBE: LEAD ENGINEER R. McINTYRE

TITLE: SIPHUMELELE 2026
VENTILATION LAYOUT

SCALE :- NTS

SIZE	PROJECT CODE	DISCIPLINE	DRG. No.	SHT. No.	REVISION
A1	15139 – 06 – 012 – 01				A

bbe-rudie 2015-09-16

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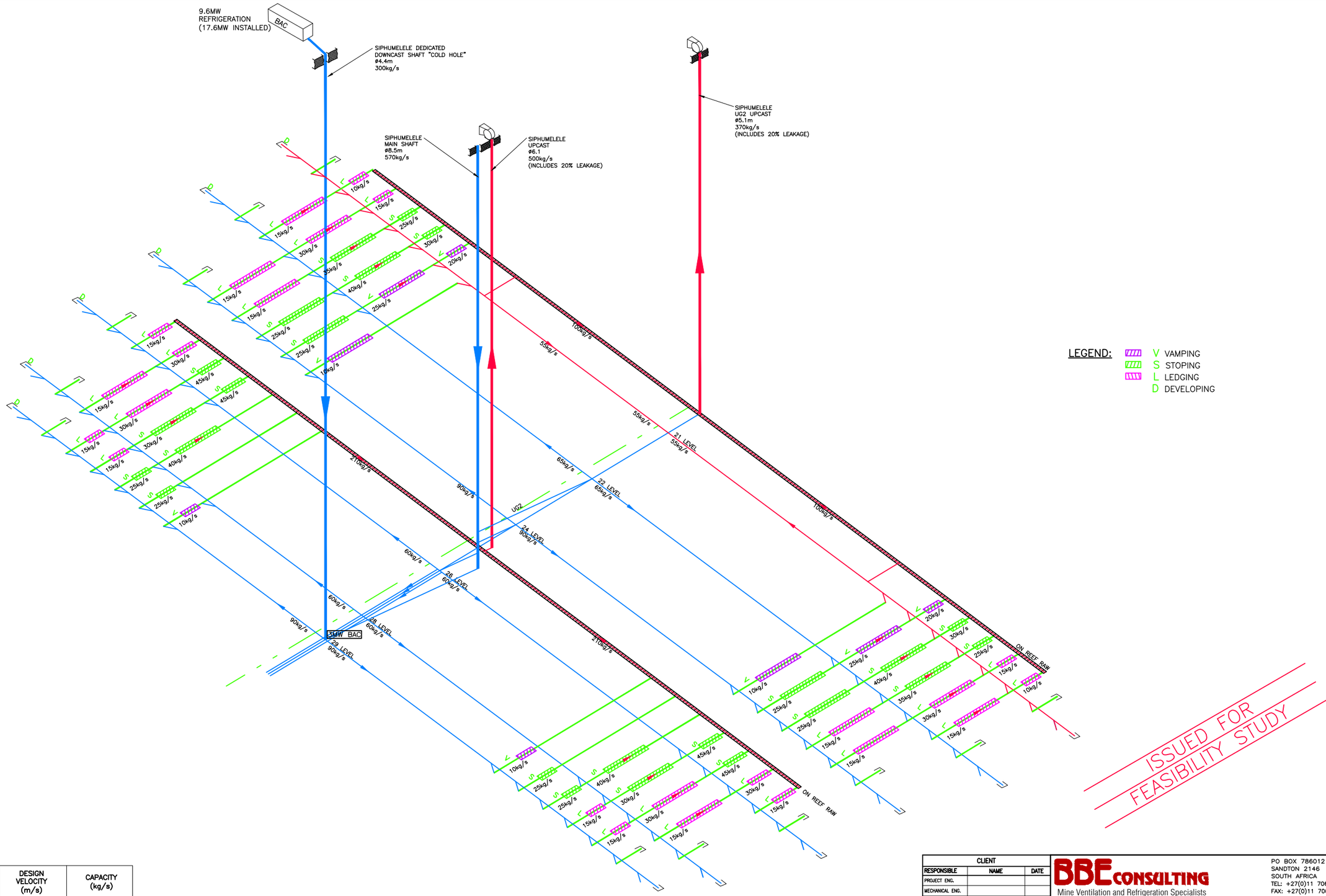

INTAKE AIRWAYS	AREA (m^2)	DESIGN VELOCITY (m/s)	CAPACITY (kg/s)
MATERIAL DECLINE	8	7	56
CHAIRLIFT DECLINE	12	6	72
CONVEYOR DECLINE	10	5	50
		TOTAL	173

DRG. No.	REFERENCE DRAWINGS
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REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
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REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
A	06-08-2015	PRELIMINARY ISSUED FOR DISCUSSION	R.O.	.

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ELECTRICAL ENG.		
INSTRUMENT ENG.		
VENT. ENG.		
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PR. ENG.		
PR. ENG. No.		

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www.bbe.co.za e-mail: bbe@bbe.co.za

CLIENT: ANGLO PLATINUM
PROJECT CONDOR

TITLE: SIPHUMELELE UG2 2042
VENTILATION LAYOUT

CLIENT: SNR. MINING ENG. F.M.G. EGERTON

BBE: LEAD ENGINEER R. McINTYRE

SCALE :- NTS

SIZE	PROJECT CODE	DISCIPLINE	DRG. No.	SHT. No.	REVISION
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Bbe-rudie 2015-09-16

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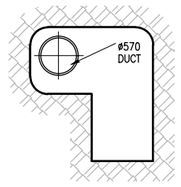
SIPHUMELELE PROPOSED HALF LEVEL VENTILATION LAYOUT



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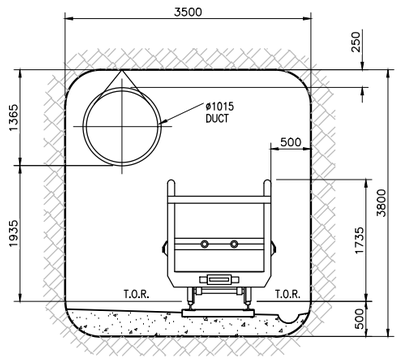

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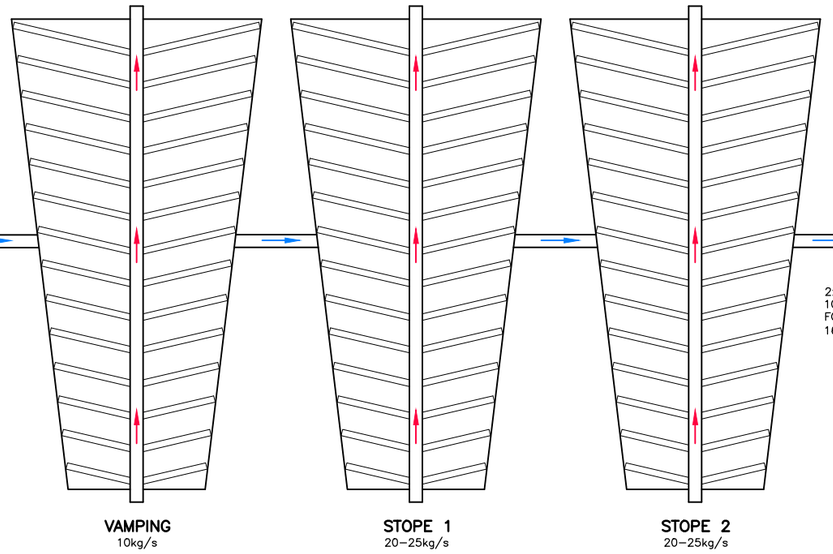
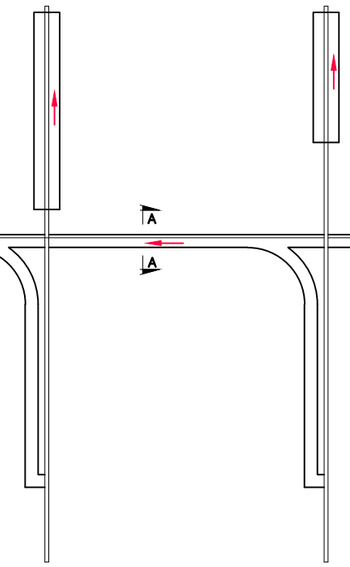


VAMPING
10kg/s

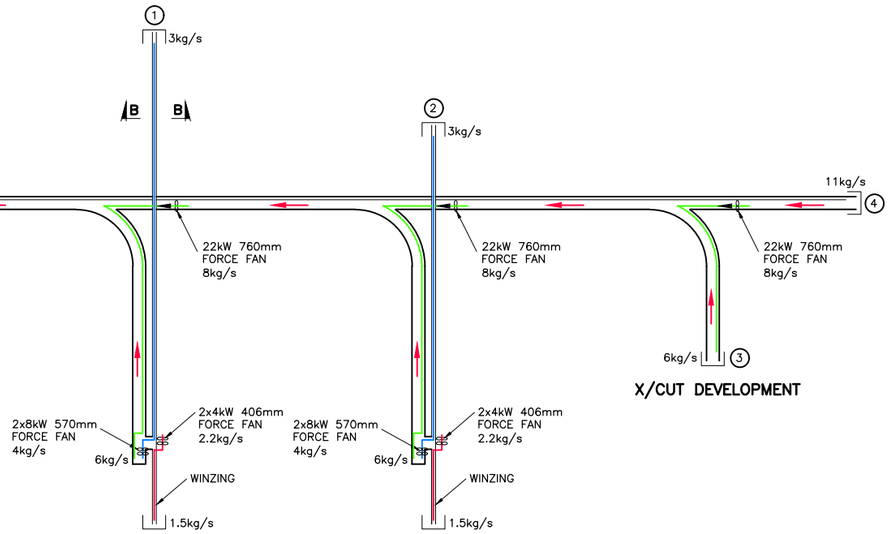
STOPE 1
20–25kg/s

STOPE 2
20–25kg/s



LEDGING
10–15kg/s

LEDGING
10–15kg/s



X/CUT DEVELOPMENT

RAISE DEVELOPMENT

RAISE DEVELOPMENT

ISSUED FOR FEASIBILITY STUDY

NOTE:

QUANTITIES INDICATED ONLY CATERS FOR BOTTOM LEVEL OF VENT DISTRICT. RE–USE ON UPPER LEVELS.

MINE	TOTAL STOPING STRIKE LENGTH	CROSS CUT LENGTH	STOPE BACK LENGTH	WINZING
SIPHUMELELE	200m	250–300m	400–450m	150m

DEVELOPMENT TYPE	LEAKAGE (%)
HAULAGE	30
CROSS CUT	25
RAISE/WINZE	20

DRG. No.	REFERENCE DRAWINGS
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REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
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REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
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ELECTRICAL ENG.		
INSTRUMENT ENG.		
VENT. ENG.		
LOSS CONTROL		

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CLIENT: ANGLO PLATINUM PROJECT CONDOR

CLIENT: SNR. MINING ENG. F.M.G. EGERTON

BBE: LEAD ENGINEER R. McINTYRE

TITLE: SIPHUMELELE PROPOSED HALF LEVEL VENTILATION LAYOUT

SCALE :– NTS

SIZE	PROJECT CODE	DISCIPLINE	DRG. No.	SHT. No.	REVISION
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Bbe–rudie 2015–09–16

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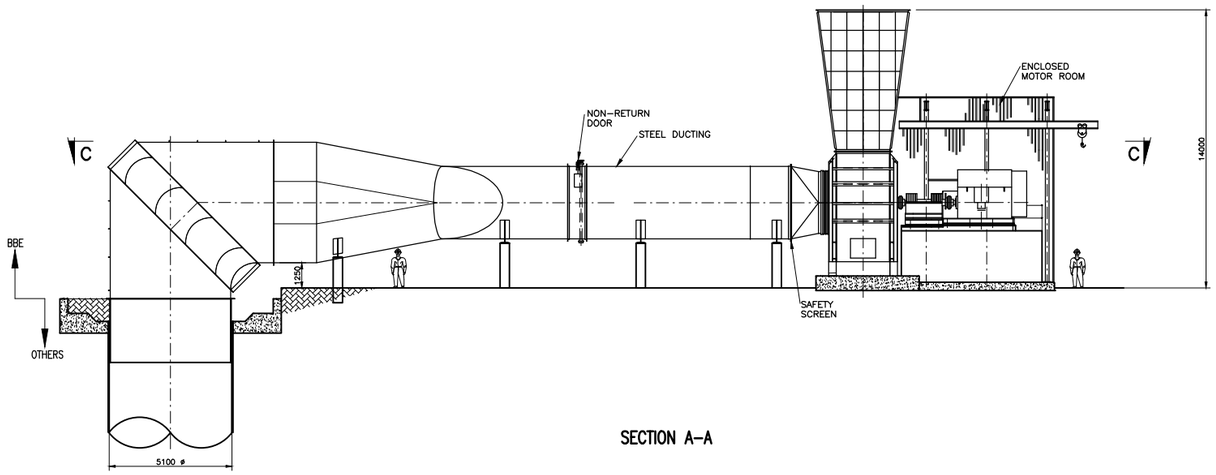

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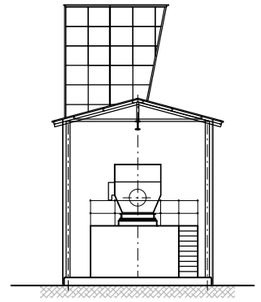

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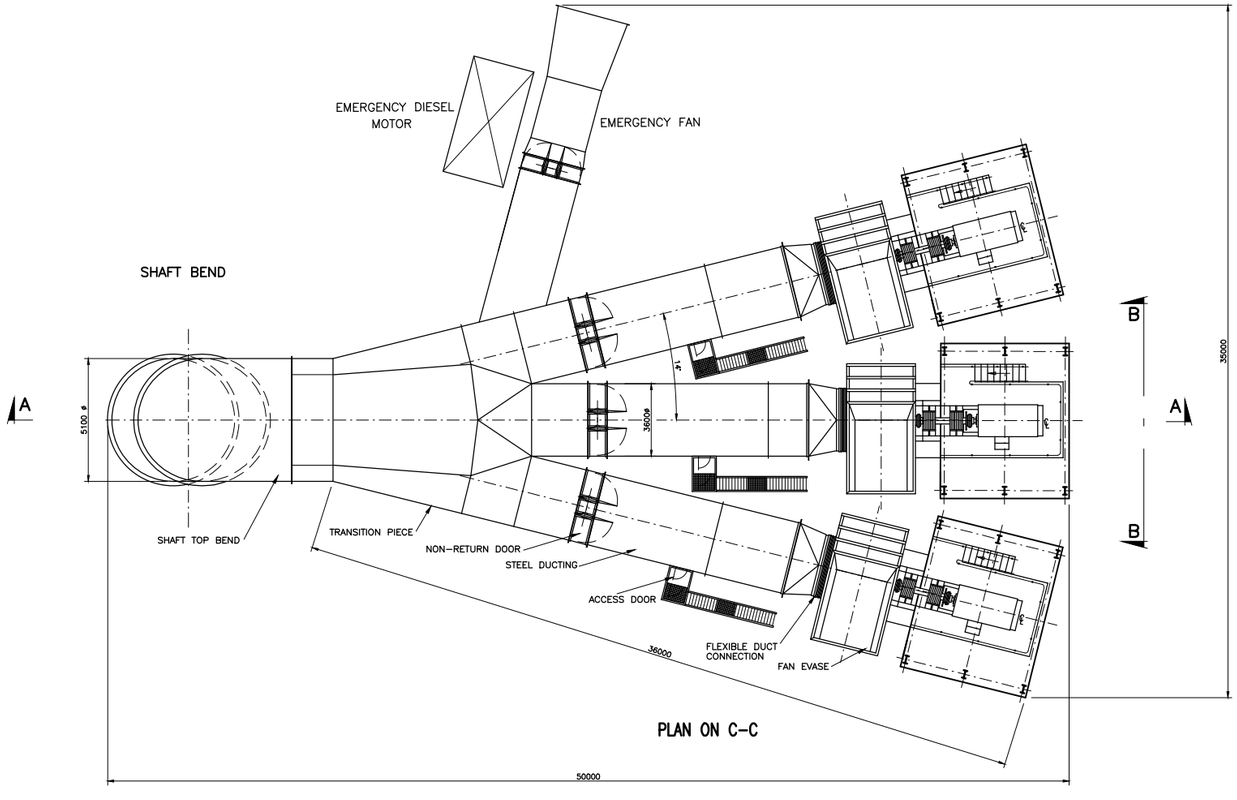
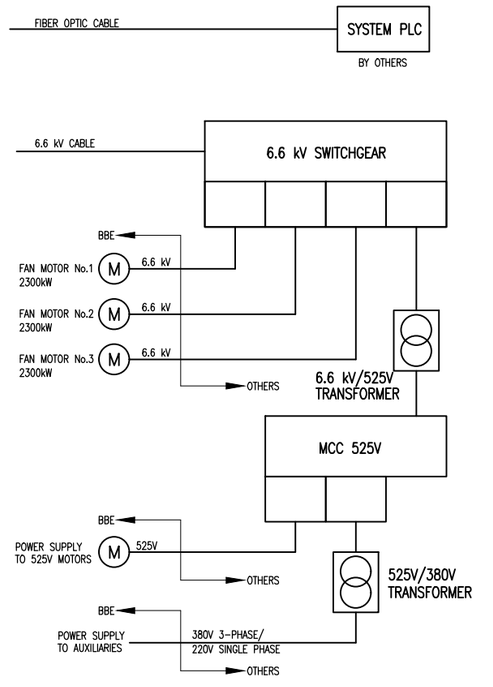


PLAN ON C-C



MAIN FAN STATION BATTERY LIMITS
DIAGRAMMATIC SKETCH FOR FEASIBILITY

ISSUED FOR
FEASIBILITY STUDY
NOT FOR CONSTRUCTION

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INSTRUMENT ENG.		
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CLIENT
ANGLO PLATINUM
PROJECT CONDOR
SIPHUMELELE

CLIENT
PROJECT MANAGER
U. BESTER

BBE
LEAD ENGINEER
R. McINTYRE

TITLE
GENERAL ARRANGEMENT OF
NEW SURFACE MAIN FAN STATION

SCALE :- 1:150

SIZE	PROJECT CODE	DISCIPLINE	DRG. No.	SHT. No.	REVISION
A1	15139 – 04 – 001 – 01				A

DRG. No.	REFERENCE DRAWINGS	REV. No.	DATE	REVISION DESCRIPTION	BY	CHK
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A	17-07-2015	PRELIMINARY ISSUED FOR DISCUSSION	PV	.

Bbe-rudie 2015-09-16

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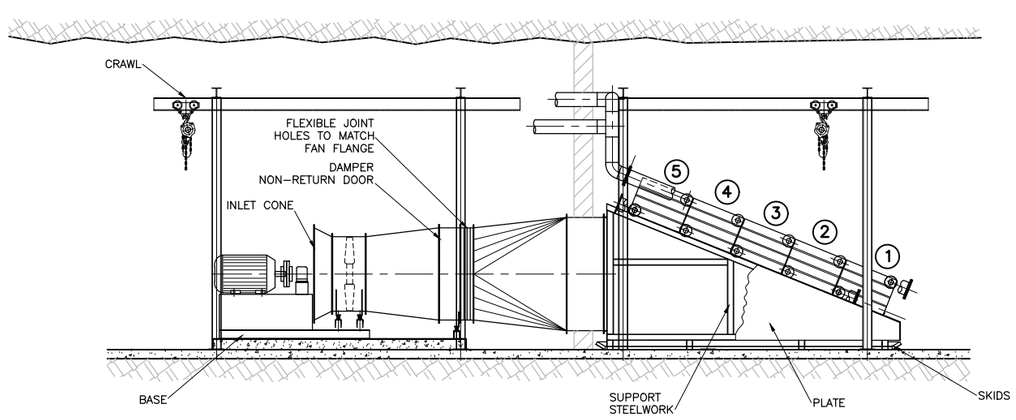

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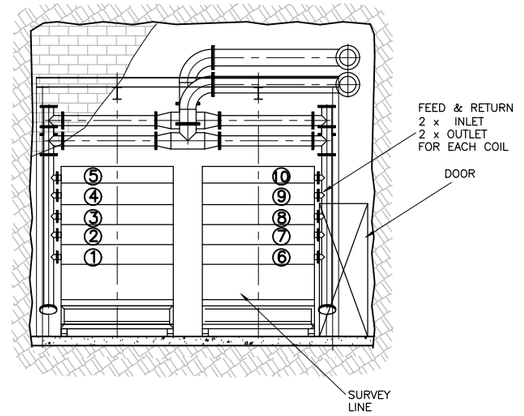
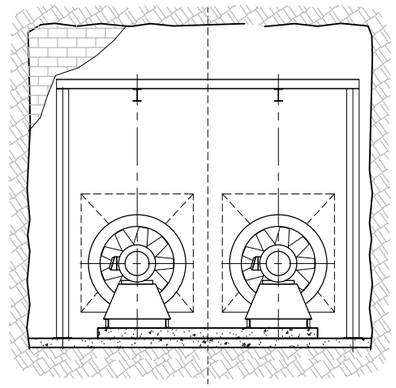


VIEW "B"–"B"



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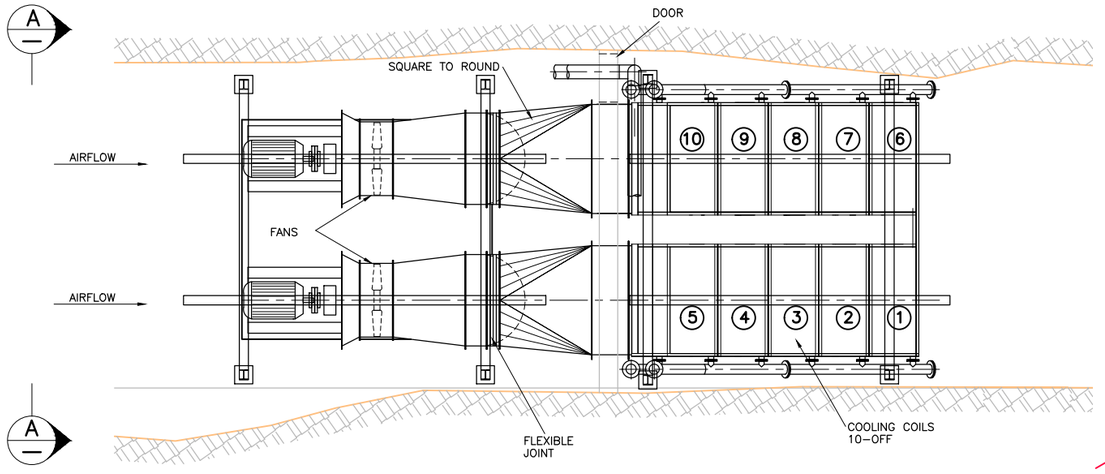

PLAN VIEW

ISSUED FOR FEASIBILITY STUDY
NOT FOR CONSTRUCTION

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A	17-07-2015	PRELIMINARY ISSUED FOR DISCUSSION	PV	.

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INSTRUMENT ENG.		
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CLIENT: ANGLO PLATINUM
PROJECT CONDOR
SIPHUMELELE

TITLE: GENERAL ARRANGEMENT OF NEW SPOT COOLER

CLIENT PROJECT MANAGER: U. BESTER

BBE LEAD ENGINEER: R. McINTYRE

SCALE :- 1:150

SIZE	PROJECT CODE	DISCIPLINE	DRG. No.	SHT. No.	REVISION
A1	15139 – 04 – 002 – 01				A

bbe-rudie 2015-09-16

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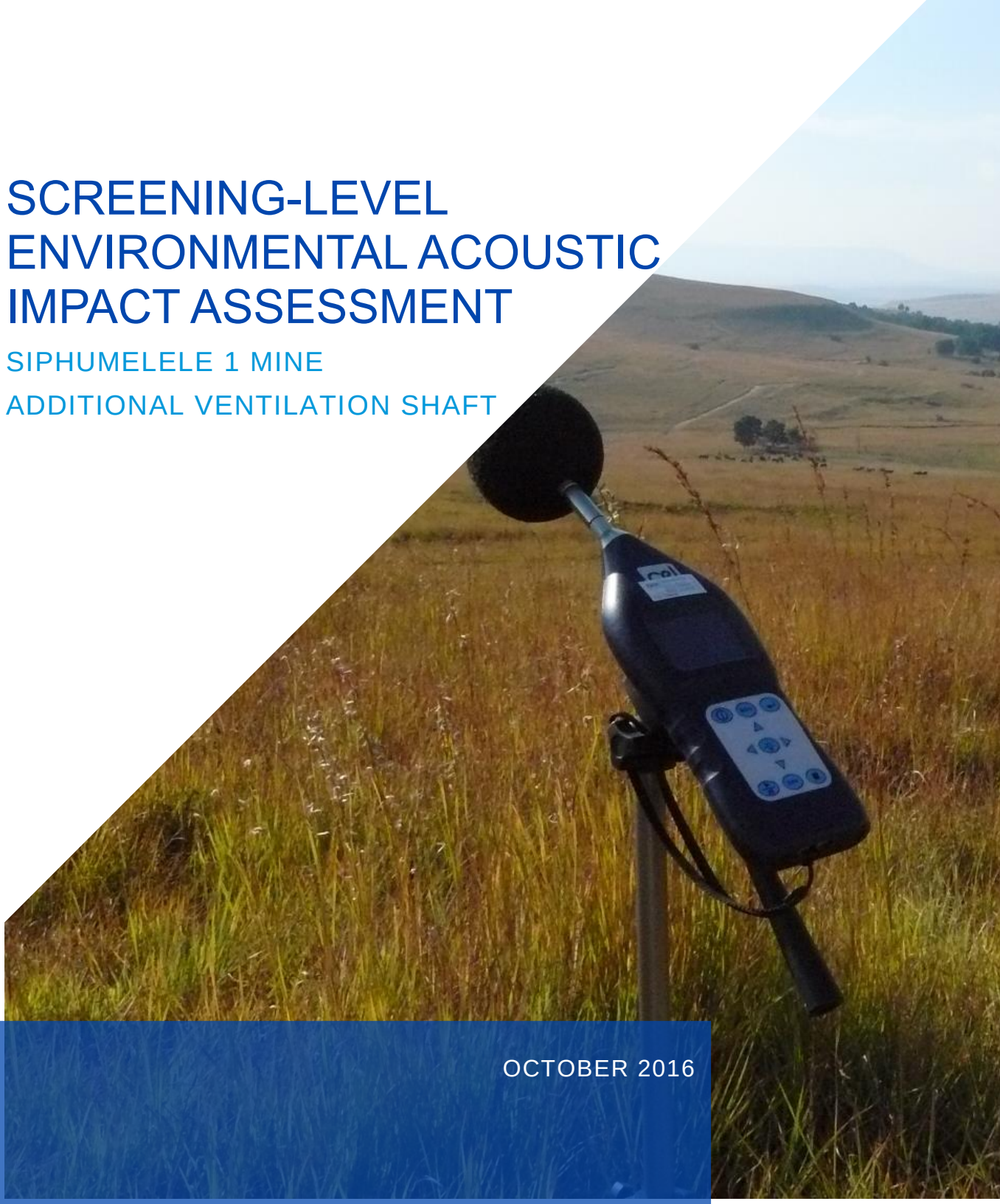
Appendix C

SCREENING-LEVEL ENVIRONMENTAL ACOUSTIC IMPACT ASSESSMENT

SCREENING-LEVEL ENVIRONMENTAL ACOUSTIC IMPACT ASSESSMENT

SIPHUMELELE 1 MINE

ADDITIONAL VENTILATION SHAFT



OCTOBER 2016

WSP | PARSONS BRINCKERHOFF

SCREENING-LEVEL ENVIRONMENTAL ACOUSTIC IMPACT ASSESSMENT

SIPHUMELELE 1 MINE

ADDITIONAL VENTILATION SHAFT

Anglo American Platinum Limited

Report (version 1)

Project no: 47522
Date: October 2016

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QUALITY MANAGEMENT

Issue/revision	First issue	Revision 1	Revision 2	Revision 3
Remarks	Report	Report		
Date	February 2016	October 2016		
Prepared by	K. Collett	K. Collett		
Signature				
Checked by	B. Keiser	B. Keiser		
Signature				
Authorised by	B. Keiser	B. Keiser		
Signature				
Project number	47522			
Report number	1 of 1			
File reference	47522 Siphumelele Vent Shaft Noise Assessment 2016 10 05.docx			

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FIGURES

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GLOSSARY OF TERMS

Sound Sound is small fluctuations in air pressure, measured in Newtons per square meter (N/m^2) or Pascals (Pa) that are transmitted as vibrational energy via a medium (air) from the source to the receiver. The human ear is a pressure transducer, which converts these small fluctuations in air pressure into electrical signals, which the brain then interprets as sound.

Noise Noise is generally defined as unwanted sound.

Sound or noise level A sound or noise level is a sound measurement that is expressed in Decibels (dB or dB(A)).

dB or dB(A) The human ear is a sensitive instrument that can detect fluctuations in air pressure over a wide range of amplitudes. This limits the usefulness of sound quantities in absolute terms. For this reason a sound measurement is expressed as ten times the logarithm of the ratio of the sound measurement to a reference value, 20 micro (millionth) Pa. This process converts a scale of constant increases to a scale of constant ratios and considerably simplifies the handling of sound measurement quantities. The attached 'A' indicates that the sound measurement has been A-weighted.

dB(Z) Historically sound levels were read off a hand held meter and the noise levels were noted in dB, after the development of different weighting curves sound levels were noted as Z-weighting or dB(Z) to reduce the confusion with different type of weighting applied noise levels. dB(Z) refers to linear noise levels.

A-weighting The human ear is not equally sensitive to sound of all frequencies, i.e. it is less sensitive to low pitched (or 'bass') than high pitched (or 'treble') sounds. In order to compensate when making sound measurements, the measured value is passed through a filter that simulates the human hearing characteristic. Internationally this is an accepted procedure when working with measurements that relate to human responses to sound/noise.

Ambient sound level Ambient noise will be defined as the totally encompassing sound in a given situation at a given time, and is usually composed of sound from many sources, both near and far.

Annoyance General negative reaction of the community or person to a condition creating displeasure or interference with specific activities**.**

Sound pressure Sound pressure is the force of sound exerted on a surface area perpendicular to the direction of the sound and is measured in N/m^2 or Pa. The human ear perceives sound pressure as loudness and can also be expressed as the number of air pressure fluctuations that a noise source creates.

Sound pressure level The sound pressure level is a relative quantity as it is a ratio between the actual sound pressure and a fixed reference pressure. The reference pressure is usually the threshold of hearing, namely 20 microPascals (µPa).

Sound power Sound power is the rate of sound energy transferred from a noise source per unit of time in Joules per second (J/s) or Watts (W).

Sound power level The sound power level is a relative quantity as it relates the sound power of a source to the threshold of human hearing (10^{-12} W). Sound power levels are expressed in dB (A), as they are referenced to sound detected by the human ear (A-weighted).

Noise nuisance Noise nuisance means any sound which disturbs or impairs or may disturb or impair the convenience or peace of any person.

Octave bands The octave bands refer to the frequency groups that make a sound. The sound is generally divided in to nine groups (octave bands) ranging from 32 Hertz (Hz) to 8,000 Hz. The lower frequency ranges of a sound have a vibrating character where the higher frequency of sound has the character of high pitched sound. In viewing the total octave bands scale from 32 Hz to 8000 Hz the character of the sound can be described.

ACRONYMS AND ABBREVIATIONS

dB	Decibel
dB(A)	A-weighted sound measurement
dB(Z)	Z-weighted sound measurement
ECA	Environmental Conservation Act 73 of 1989
Hz	Hertz
L_{Aeq}	Equivalent continuous sound pressure level
$L_{R,dn}$	Equivalent continuous day/night rating level
$L_{Req,d}$	Equivalent continuous rating level for day-time
$L_{Req,n}$	Equivalent continuous rating level for night-time
$L_{Req,T}$	Typical noise rating levels
NEMA	National Environmental Management Act
NEMAQA	National Environmental Management: Air Quality Act 39 of 2004
SABS	South African Bureau of Standards
SANS	South African National Standards
WHO	World Health Organisation

EXECUTIVE SUMMARY

This study investigated the acoustic impacts associated with the construction and operation of an additional ventilation shaft at the Siphumelele 1 Mine near Rustenburg in the North West Province. In order to assess the existing noise climate in the area surrounding the Siphumelele 1 Mine, ambient noise monitoring was conducted at four receptor locations during January 2016. Source monitoring of a fan at a similar ventilation shaft at the Khomanani mine was also conducted in order to obtain sound power level data for the proposed ventilation shaft fans. Noise propagation calculations were then applied in order to assess the noise climate at the receptor locations when the additional ventilation shaft is being constructed as well as when it is operational. The changes in noise levels at each receptor were calculated and the resultant impact on the communities determined.

Baseline monitoring indicated that current noise levels at two of the four locations are compliant with the relevant SANS day and night-time guidelines. During construction of the additional ventilation shaft, noise levels are predicted to only marginally increase (between 0.1 to 0.5 dB(A)) at three of the four receptor locations during both the day and night time. According to the SANS categories of community/group responses, such increases are considered to have “little” impact and are anticipated to be negligible, resulting in sporadic complaints and are deemed to go unnoticed during the noisier day-time hours. At the fourth receptor (Photshaneng residential area, south of the proposed ventilation shaft), noise levels as a result of construction activities are predicted to increase by 10.4 dB(A) during the day and 8.1 dB(A) at night. Such increases may result in community complaints. As such, it is recommended that an acoustic barrier is erected on the southern side of the construction activities in order to limit the noise propagation towards the receptors to the south of the site.

When the additional ventilation shaft is operational, noise levels are predicted to increase only marginally at three receptor locations (Photshaneng residential area, south of the proposed ventilation shaft; Thekwane residential area, northwest of the proposed ventilation shaft; and Khomanani 1 Mine main gate). Noise levels at these locations are anticipated to increase by between 0.1 and 4.1 dB(A) during the day and 0.1 and 2.7 dB(A) at night. According to the SANS categories of community/group responses, such increases are considered to have “little” impact resulting in sporadic complaints and are deemed to go unnoticed particularly during the noisier daytime hours.

Based on the acoustic results, it is advised that the project may proceed. It is, however, recommended that a second noise monitoring campaign be undertaken once the ventilation shaft is operational. Since perception to noise is highly subjective, such monitoring will aid in confirming off-site noise levels and whether any complaints that may arise will warrant the need for mitigatory interventions.

1 INTRODUCTION

Anglo American Platinum Limited (Anglo) currently operates the Siphumelele 1 Mine which forms part of the Rustenburg Section Mines in the North West Province. Anglo plans to install an additional ventilation shaft at the Siphumelele 1 Mine and as such require environmental authorisation to do so. As part of the environmental authorisation process, an environmental acoustic impact assessment is required in order to determine the impacts of the proposed ventilation shaft on the existing noise climate specifically at the surrounding sensitive receptors (communities).

This report details the findings of the environmental acoustic specialist study undertaken to investigate noise associated with the proposed ventilation shaft. Below is a description of the project; followed by a discussion on the fundamentals of noise; a description of the methodology utilised in the study; the results of the study; as well as the assessment of related impacts.

2 PROJECT DESCRIPTION

The Siphumelele 1 Mine is located in the North West Province, approximately 11 km east of Rustenburg. The proposed additional ventilation shaft will be located ~650 m south of the existing Siphumelele 1 Mine main entrance gate (**Figure 1**).

The Siphumelele 1 Mine has revised its business plan to access the UG2 reef resources between 21 and 29 levels and will require additional ventilation infrastructure to ensure a safe working environment. The ventilation engineering design conducted for this mining project indicated that an additional exhaust shaft will be required, including a main fan system.

Initially the Khomanani 2 Fan Station will ventilate the West Merensky until the new UG2 shaft and fan station is operational in 2018. The ventilation design indicates that some 350 m^3/s of ventilating air will be required to circulate and exhaust through this new shaft. Three surface main fans will be required to be installed on top of the exhaust shaft.

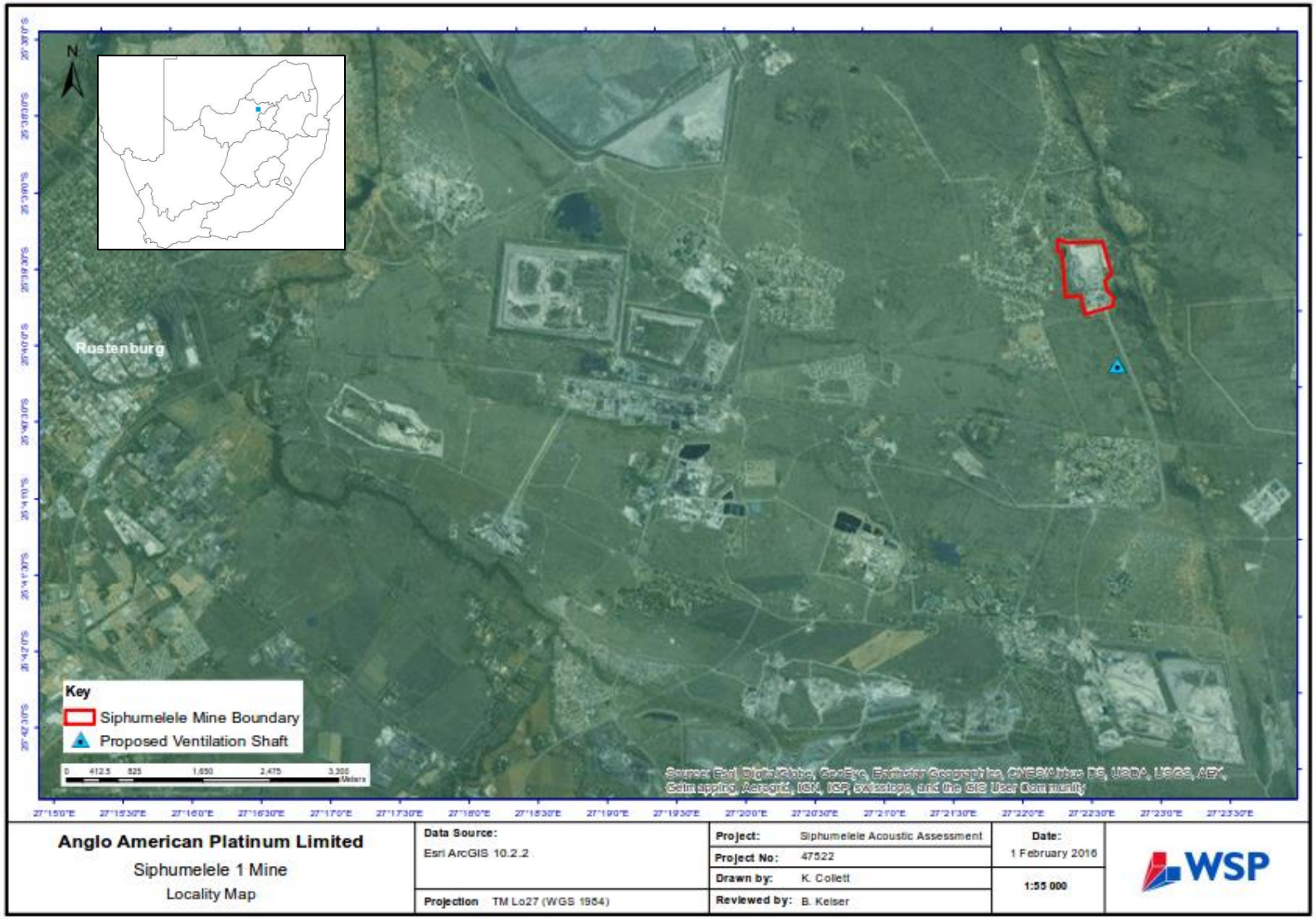

Figure 1: Location of the Siphumelele 1 Mine and the proposed additional ventilation shaft

3 ACOUSTIC FUNDAMENTALS

3.1 PRINCIPLES

Sound is defined as any pressure variation (in air, water or other medium) that the human ear can detect. Noise is defined as “unwanted sound”. Noise can lead to health impacts and can negatively affect people’s quality of life. Hearing impairment is typically defined as a decrease in the threshold of hearing. Severe hearing deficits may be accompanied by tinnitus (ringing in the ears). Noise-induced hearing impairment occurs predominantly in the higher frequency range of 3,000 to 6,000 Hertz (Hz), with the largest effect at 4,000 Hz. With increasing $L_{Aeq,8h}$ and increasing exposure time, noise-induced hearing impairment occurs even at frequencies as low as 2,000 Hz. However, hearing impairment is not expected to occur at $L_{Aeq,8h}$ levels of 75 dB(A) or below, even for prolonged occupational noise exposure.

Speech intelligibility is adversely affected by noise. Most of the acoustical energy of speech is in the frequency range of 100 to 6,000 Hz, with the most important cue-bearing energy being between 300 and 3,000 Hz. Speech interference is basically a masking process in which simultaneous interfering noise renders speech incapable of being understood. Environmental noise may also mask other acoustical signals that are important for daily life such as doorbells, telephone signals, alarm clocks, music, fire alarms and other warning signals.

Sleep disturbance is a major effect of environmental noise. It may cause primary effects during sleep and secondary effects that can be assessed the day after night-time noise exposure. Uninterrupted sleep is a prerequisite for good physiological and mental functioning and the primary effects of sleep disturbance are: (a) difficulty in falling asleep; and (b) awakenings and alterations of sleep stages or depth. The difference between the sound levels of a noise event and background sound levels, rather than the absolute noise level, may determine the reaction probability.

The annoyance due to a given noise source is subjective from person to person, and is also dependent upon many non-acoustic factors such as the prominence of the source, its importance to the listener’s economy (wellbeing), and his or her personal opinion of the source. The result of increased exposure to noise on individuals can have negative effects, both physiological (influence on communication, productivity and even impaired hearing) and psychological effects (stress, frustration and disturbed sleep). As such, noise impacts need to be understood to mean one or a combination of negative physical, physiological or psychological responses experienced by individuals, whether consciously or unconsciously, caused by exposure to noise.

More technically, noise impacts are defined as the capacity of noise to induce annoyance depending upon its physical characteristics including the sound pressure level, spectral characteristics and variations of these properties with time. During day-time, individuals may be annoyed at L_{Aeq} levels below 55 dB(A), while very few individuals are moderately annoyed at L_{Aeq} levels below 50 dB(A). Sound levels during the evening and night should be 5 to 10 dB(A) lower than during the day (World Health Organisation, 1999).

Table 1: Typical noise levels

Sound Pressure Level (dB(A))	Typical Source	Subjective Evaluation
130	threshold of pain	intolerable
120 **110**	heavy rock concert grinding on steel	extremely noisy
100 **90**	loud car horn at 3m construction site with pneumatic hammering	very noisy
80 **70**	kerbside of busy street loud radio or television	loud
60 **50**	department store general office	moderate to quiet
40 **30**	inside private office inside bedroom	quiet to very quiet
20	unoccupied recording studio	almost silent

3.2 NOISE PROPAGATION

Sound is a pressure wave that diminishes with distance from source. Depending on the nature of the noise source, sound propagates at different rates. The three most common categories of noise are point sources (specified single point of noise generation) line sources (multiple linear noise generating points, such as a road) and area sources (specified single area of noise generation). The most important factors affecting noise propagation are:

- The type of source (point, line or area);
- Obstacles such as barriers and buildings;
- Distance from source;
- Atmospheric absorption;
- Ground absorption; and
- Reflections.

Research has shown that doubling the distance from a noise source results in a proportional decline in noise level. Sound propagation in air can be compared to ripples on a pond. The ripples spread out uniformly in all directions, decreasing in amplitude as they move further from the source. An acoustically hard site exists where sound travels away from the source over a generally flat, hard surface such as water, concrete, or hard-packed soil. These are examples of reflective ground, where the ground cover provides little or no attenuation. The standard attenuation rate for hard site conditions is 6 dB(A) per doubling of distance for point sources. Thus, if you are at a position one meter from the source and move one meter further away from the source, the sound pressure level will drop by 6 dB(A), moving to 4 meters, the drop will be a further 6 dB(A), and so on. When ground cover or normal unpacked earth (i.e. a soft site) exists between the source and receptor, the ground becomes absorptive to sound energy. Absorptive ground results in an additional noise reduction of approximately 1.5 dB(A) per doubling of distance.

This methodology is only applicable when there are no reflecting or screening objects in the sound path. When an obstacle is in the sound path, part of the sound may be reflected and part absorbed and the remainder may be transmitted through the object. How much sound is reflected, absorbed and/or transmitted depends on many factors, including the properties of the object. When receptor locations are not in the line of sight of the noise source, there may be up to 20 dB(A) attenuation for broadband noise, with a further 10 to 15 dB(A) attenuation when inside the average residence and the windows are open.

3.3 CHARACTERISTICS OF NOISE

The human ear simultaneously receives sound (normal un-weighted sound or Z-weighting dB(Z)) at many frequencies (octave bands) at different amplitudes. The ear then adjusts its sensitivity based on the amplitude of the sound observed. This focuses the sound and makes it audible by adjusting the amplitude of the low, middle and high frequencies. To measure how a person experiences sound, an electronic weighting adjusted to the Z-weighted sound was developed, including three different weighting curves, namely:

- **A-weighting** - This measurement is often noted as dB(A) and this weighting curve attempts to make the noise level meter respond closely to the characteristics of a human ear. It adjusts the frequencies at low and high frequencies. Various national and international standards relate to measurements recorded in the A-weighting of sound pressure levels;
- **B-weighting** - is similar to A-weighting but with less attenuation. The B-weighting is very seldom, if ever, used. The B-weighting follows the C-weighted trend;
- **C-weighting** - is intended to represent how the ear perceives sound at high decibel levels. C-weighted measurements are reported as dB(C); and
- **Z-weighting** - this refers to linear, unweighted noise levels.

The weighting is employed by arithmetically adding a table of values **(Table 2)**, listed by octave bands, to the measured linear sound pressure levels for each specific octave band. The resulting octave band measurements are logarithmically added to provide a single weighted value describing the sound, based on the applied weighting curve **(Figure 2)**. Thus, if the A-weighted curve was applied to the sound, the noise level is noted as dB(A).

Table 2: Frequency weighting table for the different weighting curves.

Frequency (Hz)	32 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
A-weighting	-39.4	-26.2	-16.1	-8.6	-3.2	0	1.2	1	1.1
B-weighting	-17.1	-9.3	-4.2	-1.3	-0.3	0	-0.1	-0.7	-2.9
C-weighting	-3	-0.8	-0.2	0	0	0	-0.2	-0.8	-3
Z-weighting	0	0	0	0	0	0	0	0	0

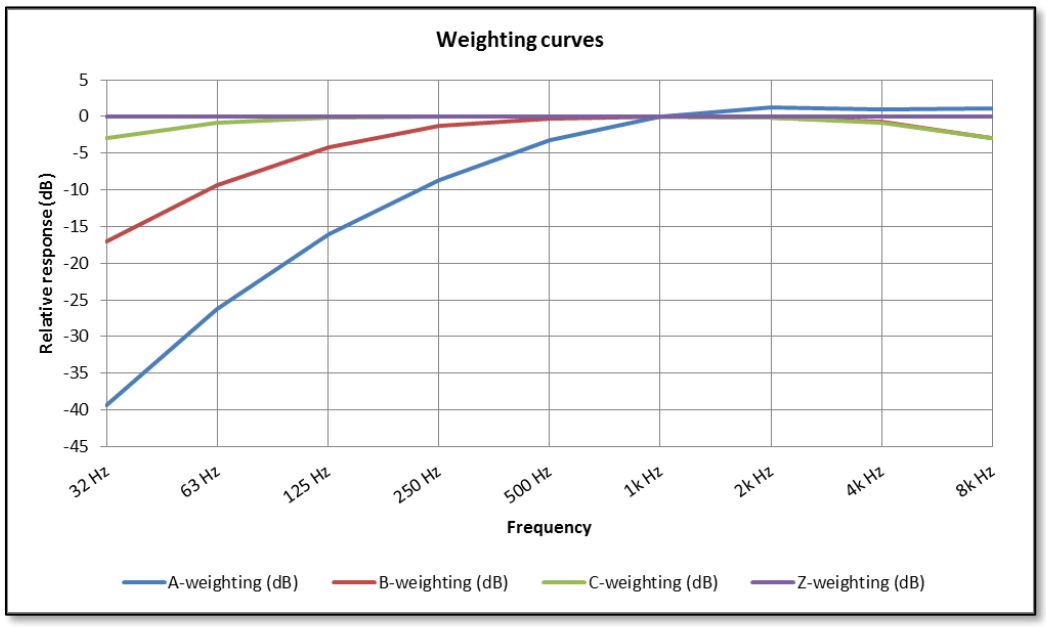

Figure 2: Weighting curves

4 ENVIRONMENTAL NOISE STANDARDS AND GUIDELINES

4.1 SOUTH AFRICAN NOISE CONTROL REGULATIONS

In South Africa, environmental noise control has been in place for three decades, beginning in the 1980s with codes of practice issued by the South African National Standards (then the South African Bureau of Standards, SABS) to address noise pollution in various sectors of the country. Under the previous generation of environmental legislation, specifically the Environmental Conservation Act 73 of 1989 (ECA), provisions were made to control noise in different districts from a national level. In later years, the ECA was replaced by the National Environmental Management Act 107 of 1998 (NEMA) as amended. The National Environmental Management: Air Quality Act 39 of 2004 (NEMAQA) was published in line with NEMA and contains noise control provisions under Section 34:

> *"(1) The minister may prescribe essential national standards –*
> *(a) for the control of noise, either in general or by specific machinery or activities or in specified places or areas; or*
> *(b) for determining –*
> *(i) a definition of noise; and*
> *(ii) the maximum levels of noise.*
> *(2) When controlling noise the provincial and local spheres of government are bound by any prescribed national standards."*

Under NEMAQA, the noise control regulations were updated and are to be applied to all provinces in South Africa. The noise control regulations give all the responsibilities of enforcement to the local provincial authority, where location specific by-laws can be created and applied to the locations with approval of provincial government. Furthermore, NEMAQA prescribes that the Minister must publish maximum allowable noise levels for different districts and national noise standards. These have not yet been accomplished and as a result all monitoring and assessments are done in accordance with the SANS 10103:2008 and 10328:2008 as described below.

4.2 SOUTH AFRICAN NATIONAL STANDARDS (SANS)

The SANS 10328:2008 *Methods for environmental noise impact assessment*s presently inform environmental acoustic impact assessment in South Africa. The SANS 10103:2008 - Typical Rating Levels ($L_{Req,T}$) for noise are presented in **Table 3**.

Table 3: Typical Rating Levels for Noise in Districts (adapted from SANS 10103:2008)

Type of District	Classification	Equivalent Continuous Rating level for Noise ($L_{Req,T}$) (dB(A)) Outdoors	
		Day-time ($L_{Req,d}$)	Night-time ($L_{Req,n}$)
a) Rural	A	45	35
b) Suburban (with little road traffic)	B	50	40
c) Urban	C	55	45
d) Urban (with one or more of the following: workshops, business premises and main roads)	D	60	50
e) Central Business Districts	E	65	55
f) Industrial District	F	70	60
Guidelines in red are applicable to this noise impact assessment			

As stipulated by the SANS 10103:2008, noise can pose as an annoyance to a community if the increase in average noise levels exceeds the rating level of the residual noise. These noise rating levels together with estimated group responses are presented in **Table 4**.

Table 4: Categories of Community/Group Response (Adapted from SANS 10103:2008)

Excess ($\Delta L_{Req,T}$)[a] dB(A)	Estimated Community or Group Response	
0 – 10	Little	Sporadic Complaints
5 – 15	Medium	Widespread Complaints
10 – 20	Strong	Threats of community/group action
>15	Very Strong	Vigorous community/group action

Overlapping ranges for the excess values are given because a spread in the community reaction might be anticipated.

[a] $\Delta L_{Req,T}$ should be calculated from the appropriate of the following:

1) $L_{Req,T}$ = $L_{Req,T}$ of ambient noise under investigation MINUS $L_{Req,T}$ of the residual noise (determined in the absence of the specific noise under investigation);

2) $L_{Req,T}$ = $L_{Req,T}$ of ambient noise under investigation MINUS the maximum rating level of the ambient noise given in Table 1 of the code;

3) $L_{Req,T}$ = $L_{Req,T}$ of ambient noise under investigation MINUS the typical rating level for the applicable district as determined from Table 2 of the code; or

4) $L_{Req,T}$ = Expected increase in $L_{Req,T}$ of ambient noise in the area because of the proposed development under investigation.

4.3 WORLD HEALTH ORGANISATION GUIDELINES FOR COMMUNITY NOISE

The World Health Organisation (WHO) together with the Organisation for Economic Co-operation and Development (OECD) are the main international bodies that have collected data and developed assessments on the effects of exposure to environmental noise. This has provided the following summary of thresholds for noise nuisance in terms of outdoor daytime L_{Aeq} in residential districts:

- At 55 - 60 dB(A) noise creates annoyance.
- At 60 - 65 dB(A) annoyance increases considerably.
- Above 65 dB(A) constrained behaviour patterns, symptomatic of serious damage caused by noise

The World Health Organisation recommends a maximum outdoor daytime L_{Aeq} of 55 dB(A) in residential areas and schools in order to prevent significant interference with normal activities. It further recommends a maximum night-time L_{Aeq} of 45 dB(A) outside dwellings. No distinction is made as to whether the noise originates from road traffic, from industry, or any other noise source.

The WHO also lists that the guideline for industrial noise is set to 70 dB(A) over a period of 24 hours. This would cause hearing impairment, where the peak noise level of 110 dB(A) is allowable on a fast response measurement.

5 STUDY METHODOLOGY

In order to assess the environmental acoustic impacts of the proposed ventilation shaft both baseline (monitored) and proposed (calculated) noise levels were assessed. Comparisons of the existing and proposed noise levels at various specified sensitive receptors (noise receivers) enabled an assessment of changes in noise levels at these locations as a result of the proposed ventilation shaft. Such changes can then be measured against the SANS community or group responses (**Table 4**) in order to assess the anticipated impacts/responses as a result of such increases.

5.1 ENVIRONMENTAL ACOUSTIC MONITORING

Ambient sound level measurements were undertaken on 20 January at four receptor locations (**Table 5** and **Figure 3**). Source monitoring of the fan at the existing ventilation shaft at the Khomanani Mine, located 4.5 km west of the Siphumelele 1 Mine, was also conducted. It is understood that the fans at the additional Siphumelele 1 Mine ventilation shaft will be identical to the one installed at the Khomanani Mine ventilation shaft. Such monitoring therefore provides the sound level data required in the acoustic calculations.

All receptor sound level measurements were free-field measurements (i.e. at least 3.5 m away from any vertical reflecting surfaces). Measurement procedures were undertaken according to the relevant South African Code of Practice SANS 10103:2008. This guides the selection of monitoring locations, microphone positioning and equipment specifications. Sound level measurements were taken with a SABS-calibrated Type 1 Integrating Sound Level Meter. The make and model as well as serial number and calibration validity of the sound level meter and calibrator are presented in **Table 6**. The daytime and night-time measurements were taken for ten minutes, allowing monitoring to be adequately representative. The monitoring was conducted during the relevant timeframes for day (06:00 to 22:00) and night (22:00 to 06:00) in accordance with the SANS methodology. The sound level meter was calibrated before and after measurements were conducted and no significant drifts (differences greater than 0.5 dB(A)) were found to occur.

The noise parameters recorded included:

- L_{Aeq} - The equivalent continuous sound pressure level, normally measured (A-weighted);
- L_{Amax} - The maximum sound pressure level of a noise event measured (A-weighted);
- L_{Zpeak} - The peak noise level experienced during the measurement (Z-weighted); and
- L_{A90} - The average noise level the receptor is exposed to for 90% of the monitoring period.

Table 5: Noise monitoring locations

Location ID	Description	Distance from Proposed Ventilation Shaft (m)
SIP 01	Residential settlement to the south of the proposed ventilation shaft	830
SIP 02	Residential settlement to the west of the proposed ventilation shaft	700
SIP 03	Residential settlement to the northwest of the proposed ventilation shaft	1130
SIP 04	Siphumelele 1 Main Gate	640
Khomanani	At the existing ventilation shaft at the Khomanani Mine	N/A

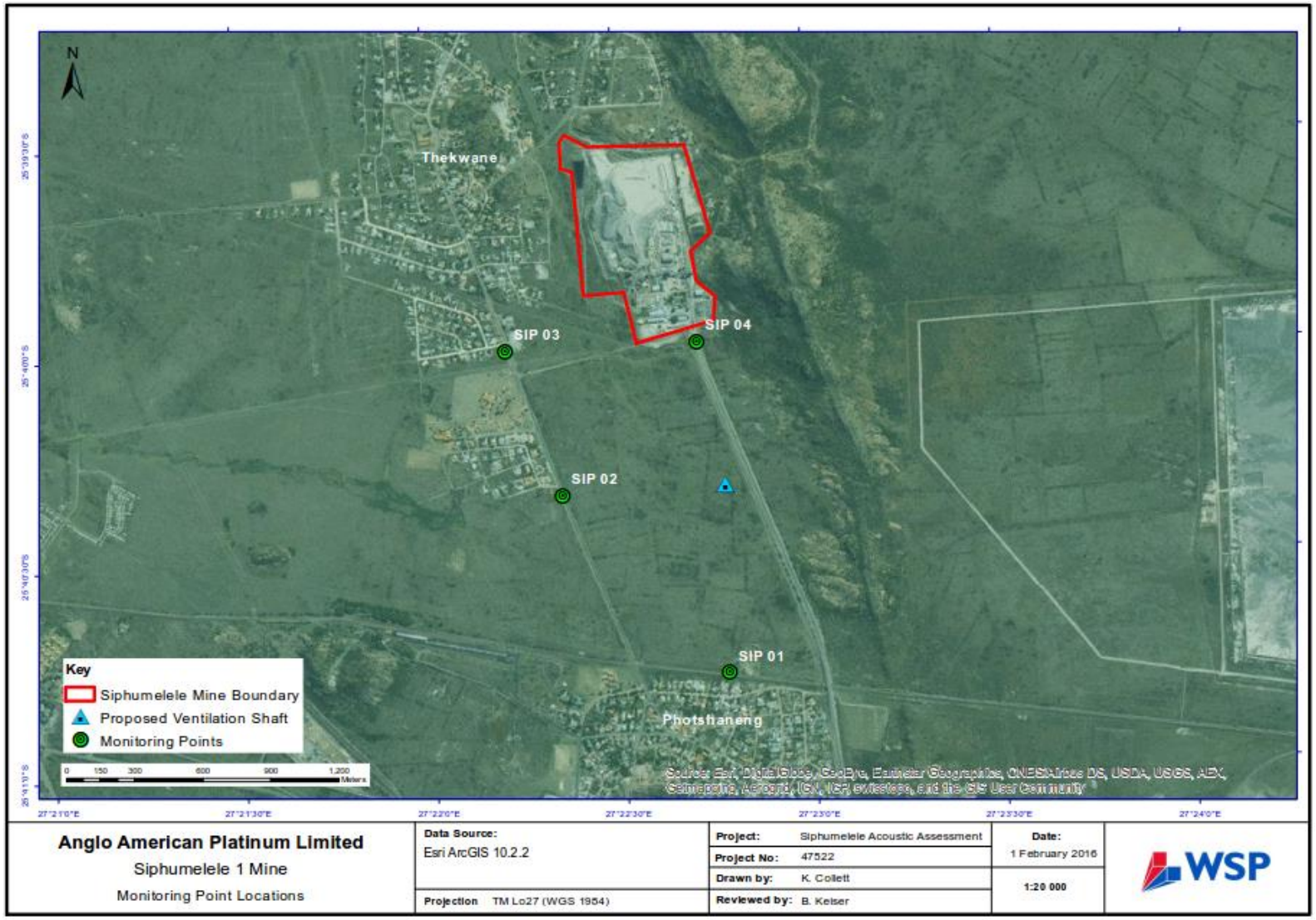

Figure 3: Location of noise monitoring points

Table 6: Sound level meter and calibrator specifications

Sound level meter	Calibrator
Make & model: CEL 63X	**Make & model:** CEL-120/1
Serial number: 3134723	**Serial number:** 3939145
Date calibrated: October 2015	**Date calibrated:** October 2015
Calibration due date: October 2016	**Calibration due date:** October 2016

5.2 ACOUSTIC CALCULATIONS

CONSTRUCTION PHASE

Table 7 presents a list of potential construction equipment that will be utilised during the construction of the additional ventilation shaft at the Siphumelele 1 Mine as well as the sound power level (PWL) specifications of the equipment (BSI, 2009; Murray and Roberts, 2016). It is noted that not all listed equipment will be operational simultaneously. As such, in order to evaluate a worst-case construction phase noise scenario, the highest PWL (raise bore machine) will be utilised to calculate resultant noise levels at specified distances (receptors) from the facility. Such resultant receptor noise levels were calculated using attenuation-over-distance acoustic calculations. The raise bore machine is envisaged to be operational continuously for up to six months. It therefore will represent a worst-case scenario.

Table 7: Construction phase equipment and sound power level ratings

Equipment	Sound Power Level (dB(A))
Dump Truck	109.0
Loader	103.0
Dozer	107.0
Grader	105.0
Vibratory Roller	102.0
Backhoe	99.0
Chain Trencher	105.0
Spreader	110.0
Paver	105.0
Water Truck	109.0
Pickup Truck	95.0
Backhoe/Skiploader	99.0
Forklift	106.0
Compactor	108.0
Pile Driver	106.0
Concrete Truck	109.0
Concrete Pump	106.0
Delivery Truck	95.0
Crane	103.0
Raise Bore Machine	113.0

OPERATIONAL PHASE

As monitored, the sound pressure level (SPL) of the ventilation fan at the Khomanani ventilation shaft is 86.3 dB(A) at 2 m from the source. This SPL is then converted to a PWL, using **Equation 1** in order to determine the noise generating potential of the ventilation shaft fan. **Equation 1** calculates PWLs based on the hemispherical propagation of sound under free field conditions (i.e. it is assumed that the noise source is located in the vicinity of hard, reflecting surfaces and is considered environmentally conservative). The 'r' value represents the distance from the source that the SPL was recorded (i.e. 2 m). The cumulative (logarithmic) PWL for the proposed ventilation shaft fans was then calculated based on the fact that there will be three ventilation fans installed at the proposed ventilation shaft.

$$PWL = SPL - 10\ log\frac{2}{4\pi r^2} \qquad (1)$$

This PWL was applied to the proposed additional ventilation shaft location and resultant noise levels at specified distances (receptors) from the facility were calculated using attenuation-over-distance acoustic calculations. Based on field observations, it is noted that the fan is the only source of noise at the ventilation shaft and as such noise only from this source was used in the calculations.

5.3 SENSITIVE RECEPTORS

Sensitive receptors are identified as areas that may be impacted negatively due to noise associated with the proposed ventilation shaft. Examples of receptors include, but are not limited to, schools, shopping centres, hospitals, office blocks and residential areas. The Siphumelele 1 Mine is surrounded by natural and agricultural land uses to the east with residential settlements to the north, west and south. The specific sensitive receptors considered in this study are the same as those locations selected in the monitoring campaign as presented in **Table 5** and **Figure 3**.

6 RESULTS

6.1 CURRENT NOISE CLIMATE

DAY-TIME NOISE MONITORING

The results from the day-time noise monitoring conducted at the surrounding receptor locations on 20 January 2016 are presented in **Table 8** and **Figure 4**. Noise levels at all residential locations were compared to the typical day-time rating level for noise in urban areas (55 dB(A)) while noise levels at the Siphumelele 1 Main Gate (SIP 04) were assessed against the industrial guideline level of 70 dB(A).

Noise levels at two of the four monitoring locations (SIP 01 and SIP 04) are currently compliant with the SANS guideline. Noise levels at all other locations exceed the relevant guideline level, noting the following:

- SIP 02 – Located at the nearest residential area, west of the proposed ventilation shaft. Dominant noise sources at this location included activity of people, road traffic as well as an overhead aircraft. The Siphumelele 1 Mine was audible at this location.
- SIP 03 – Located within the Thekwane residential area, northwest of the proposed ventilation shaft. Dominant noise sources at this location included activity of people, road traffic and activities at the Siphumelele 1 Mine.

Table 8: Day-time noise monitoring results

Location	Monitoring Date	Time	L_{Aeq} (dB(A))	L_{Amax} (dB(A))	L_{Amin} (dB(A))	SANS Guideline (dB(A))	Compliant
SIP 01	20 January 2016	15:48	**36.7**	59.1	29.0	55	Yes
SIP 02	20 January 2016	15:32	**64.0**	81.9	36.6	55	No
SIP 03	20 January 2016	15:18	**60.8**	84.7	40.8	55	No
SIP 04	20 January 2016	14:58	**59.3**	78.2	52.5	70	Yes
Note: L_{Aeq} (BOLD) value to be compared with SANS guideline							

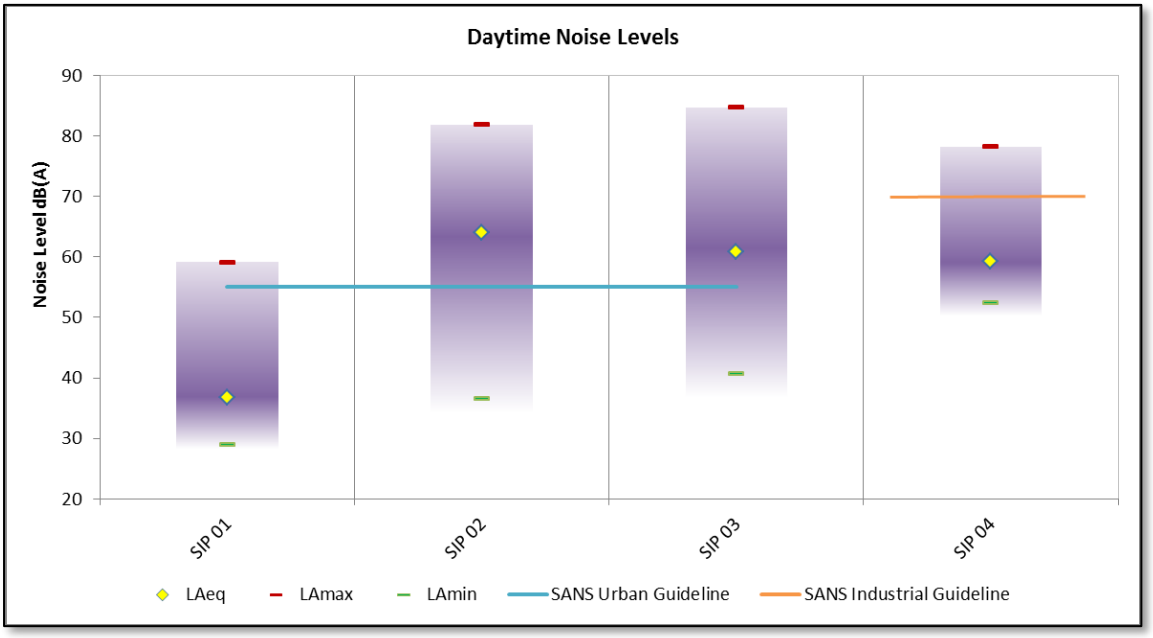

Figure 4: Day-time monitored noise levels. L_{Aeq} (yellow diamond) is compared with the SANS guideline.

NIGHT-TIME NOISE MONITORING

The results from the night-time noise monitoring conducted at the surrounding receptor locations on 20 January 2016 are presented in **Table 9** and **Figure 5**. Noise levels at all residential locations were compared to the typical night-time rating level for noise in urban areas (45 dB(A)) while noise levels at the Siphumelele 1 Main Gate (SIP 04) were assessed against the industrial guideline level of 60 dB(A).

Noise levels at two of the four monitoring locations (SIP 01 and SIP 04) are currently compliant with the SANS guideline. Noise levels at all other locations exceed the relevant guideline level, noting the following:

- SIP 02 – Located at the nearest residential area, west of the proposed ventilation shaft. Dominant noise sources at this location included activity of people, dogs barking and limited road traffic.
- SIP 03 – Located within the Thekwane residential area, northwest of the proposed ventilation shaft. Dominant noise sources at this location included road traffic and the Siphumelele 1 Mine.

Table 9: Night-time noise monitoring results

Location	Monitoring Date	Time	L_{Aeq} (dB(A))	L_{Amax} (dB(A))	L_{Amin} (dB(A))	SANS Guideline (dB(A))	Compliant
SIP 01	20 January 2016	22:38	**39.3**	67.7	34.6	45	Yes
SIP 02	20 January 2016	22:24	**59.9**	83.3	38.7	45	No
SIP 03	20 January 2016	22:10	**54.5**	76.5	41.5	45	No
SIP 04	20 January 2016	21:52	**58.1**	68.0	55.5	60	Yes
Note: L_{Aeq} (BOLD) value to be compared with SANS guideline							

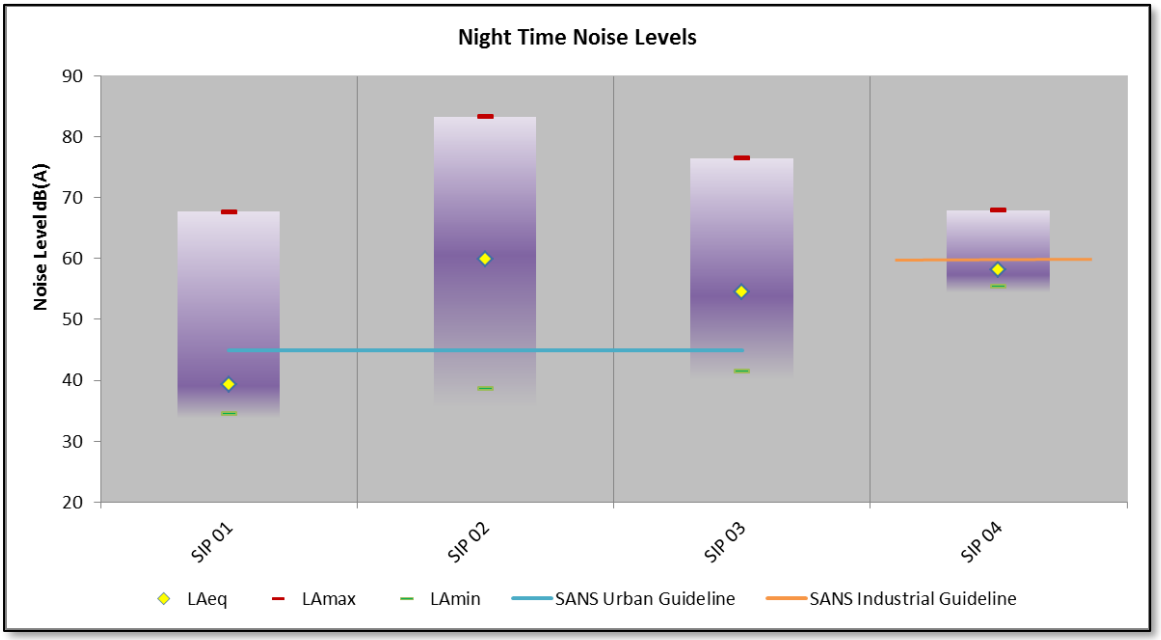

Figure 5: Night-time monitored noise levels. L_{Aeq} (yellow diamond) is compared with the SANS guideline.

6.2 PREDICTED NOISE CLIMATE

CONSTRUCTION PHASE

Based on a PWL of 113 dB(A) stemming from the raise bore machine at the proposed ventilation shaft site, the resultant noise levels at specified distances from the source are presented in **Table 10**. Noise levels in the immediate vicinity of the construction activities are predicted to be high, in excess of the SANS industrial rating level of 70 dB(A), as would be expected. From 100 m from the source, noise levels will reduce considerably, remaining below the industrial rating level. It must be noted that these noise levels are purely associated with noise related to the construction of the proposed ventilation shaft and do not include baseline (existing) noise levels.

Table 10: Noise levels associated with the construction of the proposed ventilation shaft

Distance from Ventilation Shaft (m)	Calculated Noise Level dB(A)
10	85
50	71
100	65
200	59
500	51
1,000	45

Resultant noise levels and predicted impacts at the receptor locations are presented in **Table 11** and **Table 12.** This includes baseline (monitored) noise levels in order to assess changes in noise levels at each location. These changes are assessed using the classifications presented in **Table 4**.

During the day, the change in noise levels associated with the operation of the proposed ventilation shaft will result in “little” estimated community response at all receptor locations except SIP 01 (Photshaneng, south of ventilation shaft). Noise levels are anticipated to increase at SIP 01 by 10.4 dB(A). Such an increase may result in community complaints, however, the cumulative noise level will still remain below the SANS day-time urban guideline level of 55 dB(A). At SIP 02, SIP 03 and SIP 04, increases in noise levels are anticipated to be negligible, resulting in sporadic complaints and are deemed to go unnoticed during the noisier day-time hours.

Table 11: Predicted day-time noise levels at the residential receptors during the construction phase

Location	Noise level from construction activities dB(A)	Baseline Noise Level dB(A)	Cumulative Noise Level dB(A)	Change in Noise Level dB(A)	Estimated Community Response
SIP 01	46.6	36.7	47.1	+10.4	Medium
SIP 02	48.1	64.0	64.1	+0.1	Little
SIP 03	44.0	60.8	60.9	+0.1	Little
SIP 04	48.9	59.3	59.7	+0.4	Little

The raise bore machine is expected to operate 24 hours a day and as such, night-time noise levels at the receptor locations will be affected. At night, the change in noise levels associated with the construction of the proposed ventilation shaft will result in “little” estimated community response at all receptor locations except SIP 01 (Photshaneng, south of ventilation shaft). Noise levels are anticipated to increase at SIP 01 by 8.1 dB(A), which may result in community complaints. Cumulative noise levels at this location will marginally exceed the night-time rating level of 45 dB(A). At SIP 02, SIP 03 and SIP 04, increases in noise levels are anticipated to be negligible, resulting in sporadic complaints if any.

Table 12: Predicted night-time noise levels at the residential receptors during the construction phase

Location	Noise level from construction activities dB(A)	Baseline Noise Level dB(A)	Cumulative Noise Level dB(A)	Change in Noise Level dB(A)	Estimated Community Response
SIP 01	46.6	39.3	47.4	+8.1	Little to Medium
SIP 02	48.1	59.9	60.2	+0.3	Little
SIP 03	44.0	54.5	54.9	+0.4	Little
SIP 04	48.9	58.1	58.6	+0.5	Little

Since noise levels at the Photshaneng receptor (SIP 01) are predicted to increase as a result of the construction activities, it is recommended that noise mitigation techniques be employed on site. These include:

- Erection of an acoustic barrier on the southern side of the raise bore machine in order to limit the noise propagation towards the receptors to the south of the site;
- Selection of construction equipment with lower sound power level specifications;
- Installation of mufflers on exhausts of construction vehicles; and
- The use of ear protection equipment for personnel working onsite in close proximity to noise sources.

OPERATIONAL PHASE

Based on a PWL of 105.1 dB(A) emanating from the fans at the proposed ventilation shaft, the resultant noise levels at specified distances from the source are presented in **Table 13**. Noise levels in the immediate vicinity of the ventilation shaft are predicted to be high, in excess of the SANS industrial rating level of 70 dB(A), as would be expected. From 50 m from the source, noise levels will reduce considerably, remaining below the industrial rating level. It must be noted that these noise levels are purely associated with noise related to the proposed ventilation shaft and do not include baseline (existing) noise levels.

Table 13: Noise levels associated with the operation of the proposed ventilation shaft

Distance from Ventilation Shaft (m)	Calculated Noise Level dB(A)
10	77
50	63
100	57
200	51
500	43
1,000	37

Resultant noise levels and predicted impacts at the receptor locations are presented in **Table 14** and **Table 15**. This includes baseline (monitored) noise levels in order to assess changes in noise levels at each location. These changes are assessed using the classifications presented in **Table 4**.

During the day, the change in noise levels associated with the operation of the proposed ventilation shaft will result in “little” estimated community response at all receptor locations. Noise levels are only anticipated to increase at SIP 01, located south of the proposed ventilation shaft and SIP 04, at the Siphumelele 1 Mine main gate. Such increases (+4.1 dB(A) and +0.1 dB(A)) are anticipated to be negligible, resulting in sporadic complaints and are deemed to go unnoticed during the noisier day-time hours.

Table 14: Predicted day-time noise levels at the residential receptors during the operational phase

Location	Noise level from proposed ventilation shaft dB(A)	Baseline Noise Level dB(A)	Cumulative Noise Level dB(A)	Change in Noise Level dB(A)	Estimated Community Response
SIP 01	38.7	36.7	40.8	+4.1	Little
SIP 02	40.2	64.0	64.0	0.0	Little
SIP 03	36.1	60.8	60.8	0.0	Little
SIP 04	41.0	59.3	59.4	+0.1	Little

At night, the change in noise levels associated with the operation of the proposed ventilation shaft will result in “little” estimated community response at all receptor locations. Noise levels are anticipated to increase marginally at SIP 01, located south of the proposed ventilation shaft; SIP 03, located northwest of the proposed shaft; and at SIP 04, located at the Siphumelele 1 Mine main gate. Such increases (+2.7 dB(A) and +0.1 dB(A)) are anticipated to be negligible, resulting in sporadic complaints if any.

Table 15: Predicted night-time noise levels at the residential receptors during the operational phase

Location	Noise level from proposed ventilation shaft dB(A)	Baseline Noise Level dB(A)	Cumulative Noise Level dB(A)	Change in Noise Level dB(A)	Estimated Community Response
SIP 01	38.7	39.3	42.0	+2.7	Little
SIP 02	40.2	59.9	59.9	0.0	Little
SIP 03	36.1	54.5	54.6	+0.1	Little
SIP 04	41.0	58.1	58.2	+0.1	Little

Once operational, should numerous complaints arise, noise mitigation techniques can be employed on site. These include:

- Enclosing of the fan mechanism (excluding the fan blades) within a sound absorbing enclosure; and
- Erection of an acoustic barrier along the southern boundary of the operations to limit the noise propagation towards the receptors to the south of the site.

7 ASSUMPTIONS

In this environmental acoustic impact assessment, various assumptions were made that may impact on the results obtained. These assumptions include:

- All the construction equipment will not operate simultaneously at the site;
- All construction equipment specifications provided by the Client are an accurate representation of what will occur on site during the construction phase;
- The fans installed at the proposed ventilation shaft will be identical to the one installed at the Khomanani Mine; and
- The ventilation fan will be the only source of noise during the operational phase at the proposed ventilation shaft.

8 CONCLUSIONS

This study investigated the acoustic impacts associated with the construction and operation of an additional ventilation shaft at the Siphumelele 1 Mine near Rustenburg in the North West Province. In order to assess the existing noise climate in the area surrounding the Siphumelele 1 Mine, ambient noise monitoring was conducted at four receptor locations during January 2016. Source monitoring of a fan at a similar ventilation shaft at the Khomanani mine was also conducted in order to obtain sound power level data for the proposed ventilation shaft fans. Noise propagation calculations were then applied in order to assess the noise climate at the receptor locations when the additional ventilation shaft is being constructed as well as when it is operational. The changes in noise levels at each receptor were calculated and the resultant impact on the communities determined.

Baseline monitoring indicated that current noise levels at two of the four locations are compliant with the relevant SANS day and night-time guidelines. During construction of the additional ventilation shaft, noise levels are predicted to only marginally increase (between 0.1 to 0.5 dB(A)) at three of the four receptor locations during both the day and night time. According to the SANS categories of community/group responses, such increases are considered to have “little” impact and are anticipated to be negligible, resulting in sporadic complaints and are deemed to go unnoticed during the noisier day-time hours. At the fourth receptor (Photshaneng residential area, south of the proposed ventilation shaft), noise levels as a result of construction activities are predicted to increase by 10.4 dB(A) during the day and 8.1 dB(A) at night. Such increases may result in community complaints. As such, it is recommended that an acoustic barrier is erected on the southern side of the construction activities in order to limit the noise propagation towards the receptors to the south of the site.

When the additional ventilation shaft is operational, noise levels are predicted to increase only marginally at three receptor locations (Photshaneng residential area, south of the proposed ventilation shaft; Thekwane residential area, northwest of the proposed ventilation shaft; and Khomanani 1 Mine main gate). Noise levels at these locations are anticipated to increase by between 0.1 and 4.1 dB(A) during the day and 0.1 and 2.7 dB(A) at night. According to the SANS categories of community/group responses, such increases are considered to have “little” impact resulting in sporadic complaints and are deemed to go unnoticed particularly during the noisier daytime hours.

Based on the acoustic results, it is advised that the project may proceed. It is, however, recommended that a second noise monitoring campaign be undertaken once the ventilation shaft is operational. Since perception to noise is highly subjective, such monitoring will aid in confirming off-site noise levels and whether any complaints that may arise will warrant the need for mitigatory interventions.

9 REFERENCES

BSI British Standards (2009): Code of practice for noise and vibration control on construction and open sites – Part1: Noise. British Standard: BS 5228-1:2009.

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South African National Standards (2008): SANS – Code of Practice 10103:2008, The measurement and rating of environmental noise with respect to annoyance and to speech communication, Standards South Africa, 6th Edition (ISBN 978-0-626-20832-5).

World Health Organisation (WHO) (1999): Guidelines for Community Noise. Available online at: http://www.who.int/docstore/peh/noise/guidelines2.html.

Appendix A

FIELD LOG SHEETS

Project Number: 47522

Project Name: Siphumele NIA

Location: Rustenburg

Consultant: T. Molapisi and Y. Kowlas

Date: 2016-01-20

WSP

Daytime Monitoring Sheet

ID	Name / Description	Calibration (Y/N) - Level		Date (dd/mm)	Start Time	Type of noise: People Talking	People Walking	Vehicle Traffic ONSITE	Vehicle idling	Vehicle Traffic OFFSITE	Nr. of Vehicles	Ind. noise from Client	Ind. Noise external	Dogs	Insects or birds	Wind noise	Water noise	Aircraft overhead	Quite	Client audible?	Personal Baseline	End Time	Calibration (Y/N) - Level		Comments (Co-ords)
SIP 01	S of proposed vent shaft	Y	114	20/1	15:48	✓	✓								✓	✓		✓		✓		15:58	Y	114	25.67957 S 27.37966 E
SIP 02	W of proposed vent shaft	Y	114	"	15:32	✓	✓			✓	33.					✓		✓		✓		15:42	Y	114	25.67304 S 27.37272 E
SIP 03	NW of proposed vent shaft	Y	114	"	15:18	✓	✓			✓	26				✓	✓				✓		15:28	Y	114	25.66658 S 27.37019 E
SIP 04	Siphumele 1 main gate	Y	114	"	14:58					✓	8	✓										15:08	Y	114	25.66689 S 27.37857 E

Meteorological Summary:

Project Number: 47522

Project Name: Siphumele NIA

Location: Rustenburg

Consultant: T. Molapisi and Y. Kowlas

Date: 2016-01-20

WSP

Night-time Monitoring Sheet

ID	Name / Description	Calibration (Y/N) - Level		Date (dd/mm)	Start Time	Type of noise: People Talking	People Walking	Vehicle Traffic ONSITE	Vehicle idling	Vehicle Traffic OFFSITE	Nr. of Vehicles	Ind. noise from Client	Ind. Noise external	Dogs	Insects or birds	Wind noise	Water noise	Aircraft overhead	Quite	Client audible?	Personal Baseline	End Time	Calibration (Y/N) - Level		Comments
SIP 01	S of proposed vent shaft	Y	114	20/01	~~22:36~~							✓			✓					✓		~~22:48~~	Y	114	(Co-ord:)
SIP 02	W of proposed vent shaft	Y	114	11	22:24	✓								✓	✓							22:34	Y	114	
SIP 03	NW of proposed vent shaft	Y	114	11	22:10						6				✓					✓		22:20	Y	114	
SIP 04	Siphumele 1 main gate	Y	114	20/1	21:52	✓				✓	2	✓								✓		22:02	Y	114	

Meteorological Summary:

Appendix D

IMPACTS ASSESSMENT

Ventilation Shaft

Significance Rating Table

Construction Phase

Potential Impact		Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)		Status (+ve or -ve)	Confidence
Geology	Nature of impact:	Disturbance of the surface geology as a result of the construction of foundations and sinking of the Ventilation.							
	Without Mitigation	1	2	4	5	35	Medium	-	
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	2	5	25	Low	-	
Topography	Nature of impact:	Temporary disturbance of the topography may occur from the stockpiling of soil, rubble, building material and other waste during the							
	Without Mitigation	2	2	2	4	24	Low	-	
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	2	4	20	Low	-	
Soil, Land Use and Land Capability	Nature of impact:	Degradation of soil due to the development of a contractor lay down area.							
	Without Mitigation	2	2	6	4	40	Medium	-	
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	2	4	20	Low	-	
	Nature of impact:	Removal and compaction of topsoil.							
	Without Mitigation	2	2	6	4	40	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	4	4	28	Low		
	Nature of impact:	Contamination of soil resulting from hydrocarbon spillages or contaminated water runoff.							
	Without Mitigation	2	2	6	4	40	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	4	16	Low		
Fauna and Flora	Nature of impact:	Removal / Destruction / Disturbance of existing fauna and flora.							
	Without Mitigation	2	2	6	4	40	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	4	16	Low		
	Nature of impact:	Disturbance of surrounding fauna and flora from dust during construction activities.							
	Without Mitigation	2	2	4	3	24	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	3	12	Low		
	Nature of impact:	Disturbance/destruction of surrounding fauna and flora due to hydrocarbon spillages, contaminated runoff.							
	Without Mitigation	2	2	4	4	32	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	3	12	Low		
	Nature of impact:	Destruction of fauna and flora due to potential incidents such as fires or explosions.							
	Without Mitigation	1	1	2	4	16	Low		
	degree to which impact can be reversed:	See EMP Table							
	With Mitigation	1	1	0	3	6	Low		
	Nature of impact:	Removal and use of local flora for firewood.							
	Without Mitigation	2	1	2	3	15	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	0	2	4	Low		
	Nature of impact:	Disturbance of fauna due to noise generated during the construction phase.							
	Without Mitigation	1	1	2	3	12	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	2	8	Low		
Surface Water	Nature of impact:	Pollution of surface water due to contaminated runoff.							
	Without Mitigation	2	2	6	4	40	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	2	8	Low		
Groundwater	Nature of impact:	Dewatering of aquifers due to the creation of a deep void.							
	Without Mitigation	2	3	6	4	44	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	3	12	Low		
Air Quality	Nature of impact:	Decrease in air quality due to dust generated during construction activities.							
	Without Mitigation	2	1	4	4	28	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	3	12	Low		

Noise	Nature of impact:	A noise nuisance will result from noise generated during the construction of the ventilation shafts							
	Without Mitigation	2	1	6	4	36	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	4	3	18	Low		
Visual	Nature of impact:	A visual impact will occur as a result of construction activities, which include the presence of construction vehicles, equipment, construction camp and vegetation clearance.							
	Without Mitigation	2	2	4	4	32	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	3	12	Low		
Archeaology	Nature of impact:	Potential disturbance of archaeological sites during construction activities.							
	Without Mitigation	1	1	6	2	16	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	2	8	Low		
Socio-Economic Conditions (Job Creation)	Nature of impact:	Contractors, the influx of people and potential job creation will result in the proliferation of social ills and issues such as crime, prostitution, the spread of HIV/AIDS, informal settlements etc.							
	Without Mitigation	2	2	6	3	30	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	2	2	10	Low		
	Nature of impact:	Job creation during the construction phase will improve the socio-economic conditions in the area.							
	Without Mitigation	2	2	4	2	16	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	4	3	21	Low		

Ventilation Shaft

Significance Rating Table

Operational Phase									
Potential Impact		Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)		Status (+ve or -ve)	Confidence
Geology	Nature of impact:	None							
Topography	Nature of impact:	None							
Soil, Land Use and Land Capability	Nature of impact:	Contamination of soil resulting form hydrocarbon spillages and incorrrect handling of hazardous waste.							
	Without Mitigation	1	1	6	4	32	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	4	16	Low		
Fauna and Flora	Nature of impact:	Disturbance of surrounding fauna and flora due to dust generated by vehicle activity.							
	Without Mitigation	1	1	4	4	24	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	4	16	Low		
Surface Water	Nature of impact:	Contamination of surface water resulting form hydrocarbon spillages and incorrrect handling of hazardous waste.							
	Without Mitigation	1	2	6	4	36	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	4	16	Low		
Air Quality	Nature of impact:	Decrease in air quality due to the generation of dust.							
	Without Mitigation	1	1	2	3	12	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	2	8	Low		
	Nature of impact:	Decrease in air quality due to the release of fumes (sulphur and oxides of nitrogen) from the upcast and down cast ventilation shafts.							
	Without Mitigation	2	1	4	4	28	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	2	1	2	2	10	Low		
Noise	Nature of impact:	Noise disturbance to neighbouring communities							
	Without Mitigation	2	4	4	3	30	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	2	2	2	10	Low		
Visual	Nature of impact:	The operation of the ventilation shaft will have an impact on the visual aspects of the area.							
	Without Mitigation	2	5	2	3	27	Low		
	Mitigation Measures	See EMP Table							
	With Mitigation	1	1	2	2	8	Low		
Archaeology	Nature of impact:	None							
Socio-Economic Conditions (Job Creation)	Nature of impact:	Construction and operation of the ventilation infrastructure will extend the life of mine thereby improving the socio-economic conditions in the							
	Without Mitigation	2	4	2	4	32	Medium		
	Mitigation Measures	See EMP Table							
	With Mitigation								