

mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

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From: Directorate: Mineral Regulation: Northern Cape **Date:** 09 November 2010
Enquiries: Mr. N.V. Mulla **E-mail:** Vincent. Mulla@dmr.gov.za
Ref: NC 30/5/11/13/2/1/2362EM

The Director
South African Heritage Resources Agency
PO Box 4637
CAPE TOWN
8000

Attention: Mrs Nonofho Ndobochani

CONSULTATION IN TERMS OF SECTION 40 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 2002, (ACT 28 OF 2002) FOR THE APPROVAL OF AN ENVIRONMENTAL MANAGEMENT PLAN FOR PROSPECTING RIGHT ON THE FARM DONKERBOS NO. 727, SITUATED IN THE MAGISTERIAL DISTRICT KURUMAN, NORTHERN CAPE REGION.

APPLICANT: COME WHAT MAY PROPERTIES 5 (PTY) LTD

Attached herewith, please find a copy of an EMP received from the above-mentioned applicant, for your comments.

It would be appreciated if you could forward any comments or requirements your Department may have to this office and to the applicant before **10 January 2011** as required by the Act.

Consultation in this regard has also been initiated with other relevant State Departments. In an attempt to expedite the consultation process please contact **Mr Vincent Mulla** of this office to make arrangements for a site inspection or for any other enquiries with regard to this application.

Your co-operation will be appreciated.

.....
**REGIONAL MANAGER: MINERAL REGULATION
NORTHERN CAPE REGION**

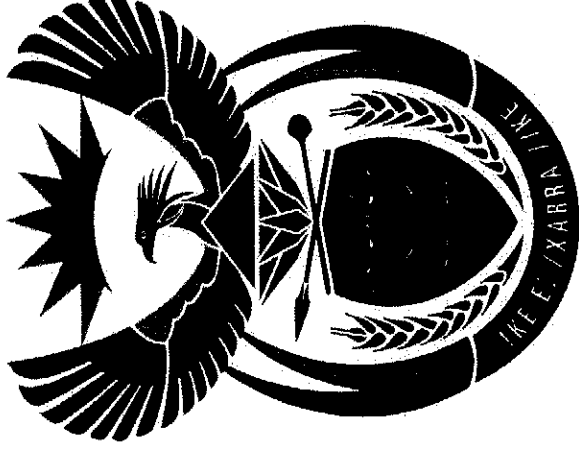
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DEPARTMENT OF MINERALS AND ENERGY

ENVIRONMENTAL MANAGEMENT PLAN

Submitted in support of application for a prospecting right or mining permit.
Section 39 and Regulation 52 of the Minerals and Petroleum Resources Development
Act, 2002 (Act 28 of 2002)



Prospecting Right	
Mining Permit	✓

Application for a:

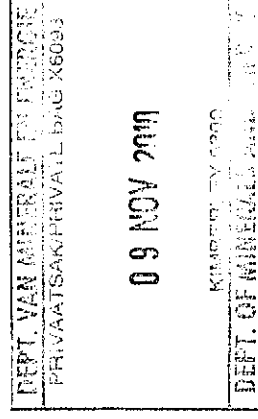
Applicant: Come What May Properties 5 (Pty) Ltd

Farm: Donkerbos 727

District: Kuruman

Mineral: Manganese and Iron ore

Date: 05th November 2010



Donkerbos 727

Come What May Properties 5 (Pty) Ltd

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A.1 INTRODUCTION

This document aims to provide a simplified national standard for applicants for prospecting rights and mining permits to comply with the relevant legislation and environmental regulations as apply to their respective applications in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002)(MPRDA).

Applicants in this sector of the mining industry typically disturb smaller surface areas of land, whether drilling boreholes, small trenches, or mining on a small area, less than 1,5 hectares of land, under a mining permit as contemplated in Section 27 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002)

A.2 SCOPE

This document is intended for use by applicants for mining permits and prospecting rights. Typically, operations in this sector of the mining industry:

- Use little or no chemicals to extract mineral from ore,
- Work on portions of land of 1,5 hectares in size or smaller,
- Disturb the topography of an area somewhat but have no significant impact on the geology

A.3 PURPOSE

This document aims to :

- Provide a national standard for the submission of Environmental Management Plans for the types of applications mentioned above.
- Ensure compliance with Regulation 52 of the MPRDA.
- Assist applicants by providing the information that the Department of Minerals and Energy (DME) requires in a simple language and in a structured, prescribed format, as contemplated in Regulation 52 (2) of the (MPRDA).
- Assist regional offices of the DME to obtain enough information about a proposed prospecting/ reconnaissance or mining permit operation to assess the possible environmental impacts from that operation and to determine corrective action even before such right is granted and the operation commences.

This document aims both to provide the DME regional offices with enough information about applicants for mining permits and applicants with guidance on environmental management matters pertaining to the mitigation of environmental impacts arising from their operations. Given this dual focus and the generic nature of the document, it might not be sufficient for all types of operations under various circumstances.

The document may therefore be altered or added to as the particular circumstances of the application in question may require.

A.4 USE OF THE DOCUMENT:

This document is designed for use by non-professionals and newcomers to the environmental management industry and it incorporates a *very simple* Environmental Impact Assessment (EIA). The EIA is contained in Section C of this document and was designed specifically with the target sectors of the mining industry (described in A.2 above) in mind.

The aim is ultimately to (a) gather information from applicants themselves; (b) to assess the impact of the operation based on that information and then (c) to guide the applicant to mitigate environmental impacts to limit damage to the environment.

Section B of the document gathers demographic information about the applicant. Section C gathers the information that will be used in the Environmental Impact Assessment. The applicant must complete the relevant sections of this document, but the regional office of the DME will do the scoring of these for the impact assessment rating in Section D.

Section F (the Environmental Management Plan) of the document is prescriptive and gives guidance to the miner or prospector on how to limit the damage of the operation on the environment. This part may be added to by the regional manager, who has the prerogative to decide whether this Environmental Management Plan will adequately address the environmental impacts expected from the operation or whether additional requirements for proper environmental management need to be set. Where these additional requirements are set, they will appear in Section G of this document. The Environmental Management Plan (Section F) of the document is legally binding once approved and, in the undertaking contained in Section H, the applicant effectively agrees to implement all the measures outlined in this Environmental Management Plan.

A.5 LEGISLATION/ REGULATIONS

The relevant sections of Mineral and Petroleum Resources Development Act and its supporting Regulations are *summarised below* for the information of applicants. The onus is on the applicant to familiarise him/herself with the provisions of the full version of the Mineral and Petroleum Resources Development Act and its Regulations.

Section of Act	Legislated Activity/ Instruction/ Responsibility or failure to comply	Penalty in terms of Section 99
5(4)	No person may prospect, mine, or undertake reconnaissance operations or any other activity without an approved EMP, right, permit or permission or without notifying land owner	R 100 000 or two years imprisonment or both
19	Holder of a Prospecting right must: lodge right with Mining Titles Office within 30 days; commence with prospecting within 120 days, comply with terms and conditions of prospecting right, continuously and actively conduct prospecting operations; comply with requirements of approved EMP, pay prospecting fees and royalties	R 100 000 or two years imprisonment or both
20(2)	Holder of prospecting right must obtain Minister's permission to remove any mineral or bulk samples	R 100 000 or two years imprisonment or both

Section of Act	Legislated Activity/ Instruction/ Responsibility or failure to comply	Penalty in terms of Section 99
26(3)	A person who intends to beneficiate any mineral mined in SA outside the borders of SA may only do so after notifying the Minister in writing and after consultation with the Minister.	R 500 000 for each day of contravention
28	Holder of a mining right or permit must keep records of operations and financial records AND must submit to the DG: monthly returns, annual financial report and a report detailing compliance with social & labour plan and charter	R 100 000 or two years imprisonment or both
29	Minister may direct owner of land or holder/applicant of permit/right to submit data or information	R 10 000
38(1)(c)	Holder of permission/permit/right MUST manage environmental impacts according to EMP and as ongoing part of the operations	R 500 000 or ten years imprisonment or both.
42(1)	Residue stockpiles must be managed in prescribed manner on a site demarcated in the EMP	A fine or imprisonment of up to six months or both
42(2)	No person may temporarily or permanently deposit residue on any other site than that demarcated and indicated in the EMP	A fine or imprisonment of up to six months or both
44	When any permit/right/permission lapses, the holder may not remove or demolish buildings, which may not be demolished in terms of any other law, which has been identified by the Minister or which is to be retained by agreement with the landowner.	Penalty that may be imposed by Magistrate's Court for similar offence
92	Authorised persons may enter mining sites and require holder of permit to produce documents/ reports/ or any material deemed necessary for inspection	Penalty as may be imposed for perjury
94	No person may obstruct or hinder an authorised person in the performance of their duties or powers under the Act.	Penalty as may be imposed for perjury
95	Holder of a permit/right may not subject employees to occupational detriment on account of employee disclosing evidence or information to authorised person (official)	Penalty as may be imposed for perjury
All sections	Inaccurate, incorrect or misleading information	A fine or imprisonment of up to six months or both
All sections	Failure to comply with any directive, notice, suspension, order, instruction, or condition issued	A fine or imprisonment of up to six months or both

A.6 OTHER RELEVANT LEGISLATION

Compliance with the provisions of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) and its Regulations does not necessarily guarantee that the applicant is in compliance with other Regulations and legislation. Other legislation that may be immediately applicable includes, but are not limited to:

- National Monuments Act, 1969 (Act 28 of 1969).
- National Parks Act, 1976 (Act 57 of 1976)
- Environmental Conservation Act, 1989 (Act 73 of 1989)
- National Environmental Management Act, 1998 (Act No. 107 of 1998)
- Atmospheric Pollution Prevention Act, 1965 (Act 45 of 1965)

- The National Water Act, 1998 (Act 36 of 1998)
- Mine Safety and Health Act, 1996 (Act 29 of 1996)
- The Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983).

A.7 WORD DEFINITIONS

In this document, unless otherwise indicated, the following words will have the meanings as indicated here:

Act (The Act)	Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002)
Borehole	A hole drilled for the purposes of prospecting i.e. extracting a sample of soil or rock chips by pneumatic, reverse air circulation percussion drilling, or any other type of probe entering the surface of the soil.
CARA	The Conservation of Agricultural Resources Act
EIA	An Environmental Impact Assessment as contemplated in Section 38(1) (b) of the Act
EMP	an Environmental Management Plan as contemplated in Section 39 of the Act
Fauna	All living biological creatures, usually capable of motion, including insects and predominantly of protein-based consistency.
Flora	All living plants, grasses, shrubs, trees, etc., usually incapable of easy natural motion and capable of photosynthesis.
Fence	A physical barrier in the form of posts and barbed wire and/or "Silex" or any other concrete construction, ("palisade"- type fencing included), constructed with the purpose of keeping humans and animals within or out of defined boundaries.
House	any residential dwelling of any type, style or description that is used as a residence by any human being
NDA	National Department of Agriculture
NWA	National Water Act, Act 36 of 1998
Pit	Any open excavation
"Porrel"	The term used for the sludge created at alluvial diamond diggings where the alluvial gravels are washed and the diamonds separated in a water-and-sand medium.
Topsoil	The layer of soil covering the earth which- (a) provides a suitable environment for the germination of seed; (b) allows the penetration of water; (c) is a source of micro-organisms, plant nutrients and in some cases seed; and (d) is not of a depth of more than 0,5 metres or such depth as the Minister may prescribe for a specific prospecting or exploration area or mining area.
Trench	A type of excavation usually made by digging in a line towards a mechanical excavator and not pivoting the boom – a large, U-shaped hole in the ground, with vertical sides and about 6 – 8 metres in length. Also a prospecting trench.
Vegetation	Any and all forms of plants, see also Fauna
DWAF	The Department of Water Affairs and Forestry – both national office and their various regional offices, which are divided across the country on the basis of water catchment areas.
MPRDA	the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002)
EMPlan	An Environmental Management Plan as contemplated in Regulation 52 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) – this document.

B. BIOGRAPHIC DETAILS OF THE APPLICANT:

B 1.1 Full name (and surname) of person or company applying for permit or right	Come What May Properties 5 (Pty) Ltd
B 1.2 ID number of person or company/ CC registration number	2005/021445/07
B 1.3 Postal address	P.O. Box 215 Fourways North 2086 Gauteng
B 1.4 Physical/ residential address	Cnr Fourways Boulevard & Roos Street Fourways Office Park
B 1.5 Applicant's telephone number	Tel: (011) 467-3852 Fax 086 517 6603
B 1.6 Applicant's cellular phone number	082 578 7307
B 1.7 Alternative contact's name	Muraga Mudau
B 1.8 Alternative contact's telephone/cell phone numbers	082 0598 408
B 2.1 Full name of the property on which mining/ prospecting operations will be conducted	[REDACTED]
B 2.2 Name of the subdivision	Farm
B 2.3 Approximate center of mining/prospecting area: Latitude Longitude	See attached map See attached map
B 2.4 Magisterial district	Kuruman
B 2.5 Name of the registered owner of the property	Alta van Wyk
B 2.6 His/her Telephone number	053 781-0369
B 2.7 His/ her Postal address	
B 2.8 Current uses of surrounding areas: Stock farming and grazing land	

B 2.9 Are there any other, existing land uses that impact on the environment in the proposed mining/ prospecting area?
Mining and exploration if not managed in a sustainable manner
B 2.10 What is the name of the nearest town?
Van zylsrus/Hotazel

C. ENVIRONMENTAL IMPACT ASSESSMENT:

The information provided in this section will enable officials to determine how serious the impact of the prospecting/mining operation will be.

DESCRIBE THE ENVIRONMENT THAT WILL BE AFFECTED BY THE PROPOSED PROSPECTING/MINING OPERATIONS UNDER THE FOLLOWING HEADINGS:

C.1 DESCRIPTION OF THE ENVIRONMENT LIKELY TO BE AFFECTED BY PROPOSED PROSPECTING/MINING OPERATIONS: (REGULATION 52(2)(a))			
ENVIRONMENTAL ELEMENT/ IMPACTOR	VALUE	TICK	OFFICE USE
C 1.1 What does the landscape surrounding the proposed operation look like? (Open veldt/ valley/ flowing landscape/ steep slopes) The landscape of the area comprises of both open veldt and gently undulating slopes.			
C 1.2 Describe the type of soil found on the surface of the site			
Red-yellow apedal, high base status.			
C 1.3 How deep is the topsoil?			
	0 – 300mm	√	
	300 – 600mm		
	600mm +		
C 1.4 What plants, trees and grasses grow naturally in the area around the site? The area falls within the Kathu Bushveldt Renoster appears to be the dominant species with Merxmullera stricta			
C 1.5 What animals naturally occur in the area? Despite domesticated animals such as sheep, goats and cattle. There are rodents, river rabbits, Squirrel, Rats and Mice, and birds species.			
C 1.6 Are there any protected areas (game parks/nature reserves, monuments, etc) close to the proposed operation?	Yes		
	No	X	

C 1.7 What mineral are you going to prospect or mine for?	Manganese & Iron ore		
C 1.8 Describe the type of equipment that will be used: Prospecting will be done in various phases:	<p>The first phase will comprise of desktop studies wherein information will be collected from existing materials such as Mineral Journal of South Africa, institutions such as Mintek and Council for Geosciences and maps, these will assist in delineating the area into sampling sites.</p> <p>Proceeding the first phase will be soil sampling: the area will be delineated into several sampling areas. In order to have a sizeable sample, samples will be collected in a grid of 50m within each other, and each sample area will be pegged and coordinates will be taken thereof. Only soil scoops will be used to take soil samples and each sample will be put into special designed plastic bags for analysis into the laboratory located outside the prospecting area.</p> <p>Depending on the results of the previous phase, the third phase for drilling will then follow, wherein a maximum of 150 holes in a grid of 200 x 200 m will be drilled. Drill cutting will be collected for thorough analysis of their metallurgical orientation; no bulk sampling will be taken.</p> <p>In summary the following equipments/machines will be utilized during the operations: Maps, books, plastic bags, drill rig, two LDV's, trailers and caravan</p>		
C.2 HOW WILL THE PROPOSED OPERATION IMPACT ON THE NATURAL ENVIRONMENT? (REGULATION 52(2)(b))			
ENVIRONMENTAL ELEMENT/ IMPACTOR	VALUE	TICK	OFFICE USE
C 2.1 What will the ultimate depth of the proposed prospecting/mining operations be?	0 – 5m		
	6 – 10m		
	10 – 25m		
	25m +	√	
C 2.2 How large will the total area of all excavations be?	There will be no excavations done		ha
C 2.3 How large will each excavation be before it is filled up?	<10 X 10m		
N/A refer to C 1.8 and C 2.2 above	<20 X 20m		
	>20 X 20m		
C 2.4 How many prospecting boreholes or trenches will there be?	There will be a maximum of 150 boreholes drilled if the Initial desktop work is positive		

	VALUE	TICK	OFFICE USE
C 2.5 Will employees prepare food on the site and collect firewood?	Yes		
Food will be prepared onsite, but no firewood will be collected since the employees will be using a Gas Stoves that will be in the mobile caravan	No	✓	
C 2.6 Will water be extracted from a river, stream, dam or pan for use by the proposed operation?	Yes		
This kind of operation does not require usage of water, and it is also important to highlight that there is no river or stream within the proposed operation	No	✓	
C 2.7 If so, what is the name of this water body?			
C 2.8 If water will not be extracted from an open surface source, where will it be obtained?	If required, potable water will be used. The container will be kept in a caravan used by drilling truck/field geologists.		
C 2.9 How much water per day will the <i>mineral processing</i> operation require?	1000 – 10 000 Liters		
No mineral will be processed onsite	20 000 – 40 000 L		
	40 000 – 60 000 L		
	60 000 – 100 000L		
	More		
C 2.10 How far is the proposed operation from open water (dam, river, pan, lake)?	0 – 15m		
	16 – 30m		
	31 – 60m		
	More than 60 metres	✓	
C 2.11 What is the estimate depth of the water table/ borehole?	Not known		metres
C 2.12 How much water per day will the proposed operation utilize for employees?	20-30 per day		Liters
C 2.13 What toilet facilities will be made available to workers?	None		
	Pit latrine (longdrop)		
	Chemical toilet	✓	

C 2.14 Would it be necessary to construct roads to access the proposed operations?	Yes		
	No		√

	VALUE	TICK	OFFICE USE
C 2.15 How long will these access road(s) be (from a public road to the proposed operations)	0 – 0,5 km	√	
	0,6 – 1,5 km		
	1,6 – 3 km		

C 2.16 Will trees be uprooted to construct these access road(s)?	Yes		
	No	√	

C 2.17 Will any foreign material, like crushed stone, limestone, or any material other than the naturally occurring topsoil be placed on the road surface?	Yes		
	No	√	

C.3 TIME FACTOR			
C 3.1 For what time period will prospecting/mining operations be conducted on this particular site?	0 – 6 months		
	6 – 12 months		
Or shorter, dependant on the phases of exploration activities	12 – 18 months		
	18 – 24 months		
	>24 months	√	

C.4 HOW WILL THE PROPOSED OPERATION IMPACT ON THE SOCIO-ECONOMIC ENVIRONMENT? (REGULATION 52(2)(b))			
ELEMENT/ IMPACTOR	VALUE	TICK	OFFICE USE
C 4.1 How many people will be employed?	• 5		
C 4.2 How many men?	• 5		
C 4.3 How many women?	• 0		
C 4.4 Where will employees be obtained? (Own or employed from local communities?)	Own	√	
	Local		

C 4.5	How many hours per day will employees work?	Sunrise → Sunset		
		Less	✓	
		More		
		VALUE	TICK	OFFICE USE
C 4.6	Will operations be conducted within 1 kilometer from a residential area	Yes		
		No	✓	
C 4.7	How far will the proposed operation be from the nearest fence/windmill/house/dam/built structure?	0 – 50 metres		
		51 – 100 metres		
		150 or more metres	✓	
C.5	HOW WILL THE PROPOSED OPERATION IMPACT ON THE CULTURAL HERITAGE OF THE SURROUNDING ENVIRONMENT? REGULATION 52(2)(b)			
	ELEMENT/ IMPACTOR	VALUE	TICK	OFFICE USE
C 5.1	Are there any graveyards or old houses or sites of historic significance within 1 kilometer of the area?	Yes		
		No	✓	

C.6 SPECIFIC REGULATORY REQUIREMENTS

C.6.1	Air quality Management and Control (Regulation 64) Describe how the operation will impact on the quality of the air, taking into account predominant wind direction and other affected parties in the downwind zone: Movements of vehicle will be confined to existing roads; no new roads will be created. Although it is envisaged that dust can be generated by wind entrainment on exposed soils such as the small areas that are cleared to house the drilling equipments. Several studies have proved that dust dispersion impacts from ground level sources such as the above are unlikely to occur at distances greater than three KM for both heavy and fine dust particles. Dust emissions from ground level sources will be reduced through the application of dust suppression water sprays. Dust suppression around drilling equipments will also be suppressed by placement of dust containment sheeting around the outside of the equipments
C.6.2	Fire Prevention (Regulation 65) Applicants for permits, rights or permissions involving <u>coal or bituminous rock</u> must: <ul style="list-style-type: none"> • Indicate on a plan where the coal or rock discard dump will be located (If applied for a permit to mine or prospect for coal or bituminous rock, indicate the exact location of the discard dump on the plan and write "EMPlan C6.2" next to it)
	The company undertakes to prevent fire, employees will not be allowed to make fire for cooking, except at driller's camp.
C.6.3	Noise control (Regulation 66)

Indicate how much noise the operation will generate, and how it will impact on the surrounding environment, who might be influenced by noise from your operation.		
There will be no sound produced during the initial exploration phase. If drilling is required, the noise will be associated with the drill rig.		
C.6.4 Blasting, vibration and shock (Regulation 67)		
Please indicate whether any blasting operations will be conducted.		
Blasting:	Yes/ No <input checked="" type="checkbox"/>	How often?
C.6.5 Disposal of waste material (Regulation 69)		
Indicate on your plan where waste will be dumped in relation to the beneficiation works/ washing pans Also indicate below how domestic waste material will be managed.		
All non-biodegradable waste will be removed from site to the recognised municipal dump.		
C.6.6 Soil pollution and erosion control (Regulation 70)		
6.6.1	Indicate how topsoil will be handled on the area.	
There will be no topsoil disturbance. If any sumps are required for drilling, the topsoil From these will be stockpiled separately and then replaced on top of the filled in excavation.		
6.6.2	Describe how spills of oil, grease, diesel, acid or hydraulic fluid will be dealt with.	
The contaminated soils will be bio-treated using products such as vibrosorb. These Products break down the hydrocarbons and allow the material to be treated and disposed off site.		
6.6.3	Briefly describe the storage facilities available for the above fluids:	
The storage facilities for these materials will be on a separate, banded concrete pad.		

<p>C.6.8 How will the negative impacts on the environment be mitigated or managed (as described in C 6.11 to the left? (Regulation 57(2)(c))</p>	<p>Example: I will mitigate the impact of my blasting operations on the interested Parties by limiting blasting operations to school hours, when no one in the affected area is at home.</p>	<p>1. See attached list of mitigation measures.</p>						
<p>C.6.7 If significant impacts on any element of the environment mentioned in Section C 1 to C 6.6 above have been identified, summarise all of them here: (Regulation 52(2)(c))</p>	<p>Example: Section C 6.4 Blasting. I have identified that the people living on the neighbouring property are sensitive to loud noises as they have children that must study during the afternoons</p>	<p>1 See attached list of impacts and mitigation measures</p>						

C.7 Financial provision: (Regulation 54)

The amount that is necessary for the rehabilitation of damage caused by the operation, both sudden closure during the normal operation of the project and at final, planned closure will be estimated by the regional office of the DME, based on the information supplied in this document. This amount will reflect how much will it cost the Department to rehabilitate the area disturbed in case of liquidation or abscondence.

Enter the amount of financial provision required here: R 30 000.00
--

What method will be used to furnish DME with this financial provision?

Cash deposit	
Bank guarantee	√
Trust Fund	
Other: (specify) (Note: other methods must be approved by the Minister)	

The standard formats for each of these types of guarantees are available from your regional office of the DME.

C.8.1 Monitoring and performance assessment.

Regulation 55 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) clearly describes the process and procedure as well as requirements for monitoring and auditing of the performance of this plan to adequately address environmental impacts from the operation. The following information must be provided:

C.8.2 Please describe how the adequacy of this programme will be assessed and how any inadequacies will be addressed. (Regulations 55(1) and 52(2)(e))

The possible impact of prospecting activities will be monitored by the geologist on site on a daily basis. This will include consultation with the residents in the vicinity of any of the activities, the reaching of satisfactory agreements with the residents before any operations commence, and the monitoring of the impact on the environment. Any deviations from the above programme will be rectified with immediate effect.

C.9 Closure and Environmental objectives: (Regulation 52(2)(f))
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Clearly state the intended end use for the area prospected/mined after closing of operations

The current use of the area will not be affected in any way by the proposed prospecting operations.

C.9.1 Describe, in brief terms, what the environment will look like after a closure certificate has been obtained.

Agricultural Land and other use

Note: The proposed end-state of your area must be consulted with interested and affected parties in terms of Regulation 52(2)(g). Details of the acceptability of the end-state must appear in the section below.

C 10 CLOSURE

Regulations 56 to 62 outline the entire process of mine closure, and these are copied in Section F of this document, both as a guide to applicants on the process to be followed for mine closure, and also to address the legal responsibility of the applicant with regard to the proper closure of his operation. In terms of Section 37 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002), the holder of a permit is liable for any and all environmental damage or degradation emanating from his/her operation, until a closure certificate is issued in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002).

C.11 Public Participation: (Regulation 52(2)(g))

In terms of the above regulation consultation with interested and affected person or persons must take place prior to the approval of the environmental management plan. This regulation is quoted below for ease of reference.

"a record of the public participation undertaken and the results thereof"

C 11.1 Any comments lodged by an interested and affected person or persons in terms of section 10(1)(b) of the Act, must be in writing and addressed to the relevant Regional Manager.

C 11.2 Any objections lodged by an interested and affected person or persons against the application for a right or permit in terms of the Act, must set out clearly and concisely the facts upon which it is based and must be addressed to the relevant Regional Manager in writing.

C 11.3 The Regional Manager must make known by way of publication in a local newspaper or at the office of the Regional Manager, that an application for a right or permit in terms of the Act has been received.

In the table below, please list the names of people or organisations likely to be influenced by the proposed operations (these might include neighbours, other water users, etc.) Kindly indicate how these people were consulted (eg. By letter or by phone) and provide proof of that consultation. What were the main concerns/ objections raised by the interested and affected parties to the proposed operation?

Name of Interested/ affected party	Contact details: Address & telephone number	How did consultation take place?	What were his/her main concern about the operation?
See attached newspaper advert and consultation	See attached newspaper advert	See newspaper advert	None as yet

documents	and consultation documents	and consultation documents
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D SCORING OF EIA- FOR OFFICIAL USE ONLY

Instructions for officials:

In this table, complete the totals of each section indicated below and do the calculation. **Remember to first add all the values of sections C 1,2,4 and 5 and then to multiply it by the time factor in Section C 3**

Note that the value for the time factor element of the impact rating appears in Section C3. This is the total amount of time that the operation is expected to impact on the environment and all other factors are MULTIPLIED by this value. Compare the score (Impact rating) with the table below to help you make a decision on the total impact of the operation and also on the sufficiency of this programme to address all expected impacts from the operation on the environment.

D 1.1 CALCULATION TABLE

Section C 1 Total	Section C 2 Total	Section C 4 Total	Section C 5 Total	Subtotal	Time Factor Section C 3	Score (Impact rating)
+	+	+	=	X	=	

D 1.2 IMPACT RATING SCALE

SCORE ATTAINED	IMPACT RATING	REMARKS
46 - 300	Low	No additional objectives needed – this programme is sufficient
301 - 800	Medium	Some specific additional objectives to address focal areas of concern may be set.
801 - 1160	High	Major revision of Environmental Management Plan for adequacy and full revision of objectives.

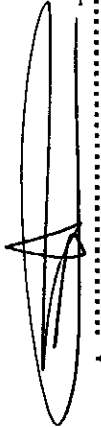
Additional Objectives:

Based on the information provided by the applicant and the regional office's assessment thereof, combined with the interpretation of the scoring and impact rating attained for the particular operation above, the Regional Manager of the regional office of the DME may now determine additional objectives /requirements for the mine owner/manager to comply with. *These measures will be specific and will address specific issues of concern that are not adequately covered in the standard version of this document.* These requirements are not listed here, but are specified under Section G of this document, so as to form part of the legally binding part of this Environmental Management Plan.

E UNDERTAKING:

I, Muraga Mudau the applicant representative for a prospecting right hereby declare that the above information is true, complete and correct. On behalf of the applicant, I undertake to implement the measures as described in Sections F and G hereof. I understand that this undertaking is legally binding and that failure to give effect hereto will render me liable for prosecution in terms of Section 98 (b) and 99 (1)(g) of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002). I am also aware that the Regional Manager may, at any time but after consultation with the applicant, make such changes to this plan as he/she may deem necessary.

Signed on this 05th day of ...November..... 2010.....at ..Johannesburg.....(Place)



.....
Signature of applicant

F. ENVIRONMENTAL MANAGEMENT PLAN:

INTRODUCTION

This Environmental Management Plan contains guidelines, operating procedures and rehabilitation/pollution control requirements which will be binding on the holder of the mining permit/ prospecting permission/ reconnaissance permission after approval of the Environmental Management Plan. It is essential that this portion be carefully studied, understood, implemented and adhered to at all times.

F 1 GENERAL REQUIREMENTS

F 1.1 MAPPING AND SETTING OUT

F 1.1.1 LAYOUT PLAN

- A copy of the layout plan as provided for in Regulation 2.2 must be available at the prospecting/mining site for scrutiny when required.
- The plan must be updated on a regular basis with regard to the actual progress of the establishment of surface infrastructure, mining operations and rehabilitation (a copy of the updated plan shall be forwarded to the Regional Manager on a regular basis).
- A final layout plan must be submitted at closure of the mine or when operations have ceased.

NOTE: Regulation 2.2 of the regulations promulgated in terms of the Act requires:

"An application contemplated in sub-regulation (1) must be accompanied by a plan that must contain –

- (a) the co-ordinates of the land or area applied for;
- (b) the north point;
- (c) the scale to which the plan has been drawn;
- (d) the name, number and location of the land or area covered by the application; and
- (e) in relation to farm boundaries and surveyed points-
 - (i) the size and shape of the proposed area;
 - (ii) the boundaries of the land or area comprising the subject of the application concerned;
 - (iii) the layout of the proposed reconnaissance, prospecting, exploration, mining or production operations;
 - (iv) surface structures and servitudes;
 - (v) the topography of the land or area;"

F 1.1.2 DEMARCATING THE MINING/ PROSPECTING AREA

- The mining/ prospecting area must be clearly demarcated by means of beacons at its corners, and along its boundaries if there is no visibility between the corner beacons.
- Permanent beacons as indicated on the layout plan or as prescribed by the Regional Manager must be firmly erected and maintained in their correct position throughout the life of the operation.
- Mining/ prospecting and resultant operations shall only take place within this demarcated area.

F 1.1.3 DEMARCATING THE RIVER CHANNEL AND RIVERINE ENVIRONMENT

The following is applicable if operations are conducted within the riverine environment (See F 3.2):

- Beacons as indicated on the layout plan or as prescribed by the Regional Manager must be erected and maintained in their correct position throughout the life of the operation.
- These beacons must be of a permanent nature during the operations and must not be easily removable, especially those in a river channel. The beacons must, however, be removed at the end of the operations.
- The mining of and prospecting for any mineral shall only take place within this demarcated mining area.
- If riverine vegetation is present in the form of reeds or wetland vegetation, the presence of these areas must be entered in Part C 1.45 of the EMPlan and indicated on the layout plan.
- The holder of the mining permit/ prospecting right will also be required to permanently demarcate the areas as specified in F 1.1.2.

F 1.2 RESTRICTIONS ON MINING/ PROSPECTING

- On assessment of the application, the Regional Manager may prohibit the conducting of mining or prospecting operations in vegetated areas or over portions of these areas

- In the case of areas that are excluded from mining or prospecting, no operations shall be conducted within 5 m of these areas.

F 1.3 RESPONSIBILITY

- The environment affected by the mining/ prospecting operations shall be rehabilitated by the holder, as far as is practicable, to its natural state or to a predetermined and agreed to standard or land use which conforms with the concept of sustainable development. The affected environment shall be maintained in a stable condition that will not be detrimental to the safety and health of humans and animals and that will not pollute the environment or lead to the degradation thereof.
- It is the responsibility of the holder of the mining permit/ prospecting right to ensure that the manager on the site and the employees are capable of complying with all the statutory requirements which must be met in order to mine, which includes the implementation of this EMP.
- If operations are to be conducted in an area that has already been disturbed, the holder must reach specific agreement with the Regional Manager concerning the responsibilities imposed upon himself/herself pertaining to the rehabilitation of the area and the pollution control measures to be implemented.

F 2 INFRASTRUCTURAL REQUIREMENTS

F 2.1 TOPSOIL

- Topsoil shall be removed from all areas where physical disturbance of the surface will occur.
- All available topsoil shall be removed after consultation with the Regional Manager prior to the commencement of any operations.
- The topsoil removed, shall be stored in a bund wall on the high ground side of the mining/prospecting area outside the 1:50 flood level within the boundaries of the mining area/ prospecting.
- Topsoil shall be kept separate from overburden and shall not be used for building or maintenance of access roads.
- The topsoil stored in the bund wall shall be adequately protected from being blown away or being eroded.

F 2.2 ACCESS TO THE SITE

F 2.2.1 Establishing access roads on the site

- The access road to the mining/prospecting area and the camp-site/site office must be established in consultation with the landowner/tenant and existing roads shall be used as far as practicable.
- Should a portion of the access road be newly constructed the following must be adhered to:

- The route shall be selected that a minimum number of bushes or trees are felled and existing fence lines shall be followed as far as possible.
 - Water courses and steep gradients shall be avoided as far as is practicable.
 - Adequate drainage and erosion protection in the form of cut-off berms or trenches shall be provided where necessary.
- If imported material is used in the construction or upgrading of the access road this must be listed in C 2.17
 - The erection of gates in fence lines and the open or closed status of gates in new and existing positions shall be clarified in consultation with the landowner/tenant and maintained throughout the operational period.
 - No other routes will be used by vehicles or personnel for the purpose of gaining access to the site.

NOTE: The design, construction and location of access to provincial roads must be in accordance with the requirements laid down by the Provincial or controlling authority.

F 2.2.2 Maintenance of access roads

- In the case of dual or multiple use of access roads by other users, arrangements for multiple responsibility must be made with the other users. If not, the maintenance of access roads will be the responsibility of the holder of the mining permit/ prospecting right.
- Newly constructed access roads shall be adequately maintained so as to minimise dust, erosion or undue surface damage.

F 2.2.3 Dust control on the access and haul roads

- The liberation of dust into the surrounding environment shall be effectively controlled by the use of, *inter alia*, water spraying and/or other dust-allaying agents. The speed of haul trucks and other vehicles must be strictly controlled to avoid dangerous conditions, excessive dust or excessive deterioration of the road being used.

F 2.2.4 Rehabilitation of access roads

- Whenever a mining permit/ prospecting right is suspended, cancelled or abandoned or if it lapses and the holder does not wish to renew the permit or right, any access road or portions thereof, constructed by the holder and which will no longer be required by the landowner/tenant, shall be removed and/or rehabilitated to the satisfaction of the Regional Manager.
- Any gate or fence erected by the holder which is not required by the landowner/tenant, shall be removed and the situation restored to the pre mining/ prospecting situation.

- Roads shall be ripped or ploughed, and if necessary, appropriately fertilised (based on a soil analysis) to ensure the regrowth of vegetation. Imported road construction materials which may hamper regrowth of vegetation must be removed and disposed of in an approved manner prior to rehabilitation.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/prospecting operation, be corrected and the area be seeded with a seed mix to the Regional Manager's specification.

F 2.3 OFFICE/CAMP SITES

F 2.3.1 Establishing office / camp sites

- Office and camp sites shall be established, as far as is practicable, outside the flood plain, above the 1 in 50 flood level mark within the boundaries of the mining/ prospecting area.
- The area chosen for these purposes shall be the minimum reasonably required and which will involve the least disturbance to vegetation. Topsoil shall be handled as described in F 2.1 above
- No camp or office site shall be located closer than 100 metres from a stream, river, spring, dam or pan.
- No trees or shrubs will be felled or damaged for the purpose of obtaining firewood, unless agreed to by the landowner/tenant.
- Fires will only be allowed in facilities or equipment specially constructed for this purpose. If required by applicable legislation, a fire-break shall be cleared around the perimeter of the camp and office sites.
- Lighting and noise disturbance or any other form of disturbance that may have an effect on the landowner/tenant/persons lawfully living in the vicinity shall be kept to a minimum.

F 2.3.2 Toilet facilities, waste water and refuse disposal

- As a minimum requirement, the holder of a mining permit/ prospecting right shall, at least, provide pit latrines for employees and proper hygiene measures shall be established.
- Chemical toilet facilities or other approved toilet facilities such as a septic drain shall preferably be used and sited on the camp site in such a way that they do not cause water or other pollution.
- The use of existing facilities must take place in consultation with the landowner/tenant.
- In cases where facilities are linked to existing sewerage structures, all necessary regulatory requirements concerning construction and maintenance should be adhered to.
- All effluent water from the camp washing facility shall be disposed of in a properly constructed French drain, situated as far as possible, but not less than 200 metres, from any stream, river, pan, dam or borehole.

- Only domestic type wash water shall be allowed to enter this drain and any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and removed from the site, either for resale or for appropriate disposal at a recognised facility.
- Spills should be cleaned up immediately to the satisfaction of the Regional Manager by removing the spillage together with the polluted soil and by disposing of them at a recognised facility.
- Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., shall be stored in a container at a collecting point and collected on a regular basis and disposed of at a recognised disposal facility. Specific precautions shall be taken to prevent refuse from being dumped on or in the vicinity of the camp site.
- Biodegradable refuse generated from the office/camp site, processing areas vehicle yard, storage area or any other area shall either be handled as indicated above or be buried in a pit excavated for that purpose and covered with layers of soil, incorporating a final 0,5 metre thick layer of topsoil (where practicable). Provision should be made for future subsidence of the covering.

F 2.3.3 Rehabilitation of the office/camp site

- On completion of operations, all buildings, structures or objects on the camp/office site shall be dealt with in accordance with section 44 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002), which states:
 - (1) *When a prospecting right, mining right, retention permit or mining permit lapses, is cancelled or is abandoned or when any prospecting or mining operation comes to an end, the holder of any such right or permit may not demolish or remove any building, structure, object -*
 - (a) *which may not be demolished in terms of any other law;*
 - (b) *which has been identified in writing by the Minister for purposes of this section; or*
 - (c) *which is to be retained in terms of an agreement between the holder and the owner or occupier of the land, which agreement has been approved by the Minister in writing.*
 - (2) *The provision of subsection (1) does not apply to bona fide mining equipment which may be removed*
- Where office/camp sites have been rendered devoid of vegetation/grass or where soils have been compacted owing to traffic, the surface shall be scarified or ripped.
- Areas containing French drains shall be compacted and covered with a final layer of topsoil to a height of 10cm above the surrounding ground surface.
- The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/prospecting

operation be corrected and the area be seeded with a vegetation seed mix to his or her specification.

- Photographs of the camp and office sites, before and during the mining/prospecting operation and after rehabilitation, shall be taken at selected fixed points and kept on record for the information of the Regional Manager.

F 2.4 VEHICLE MAINTENANCE YARD AND SECURED STORAGE AREAS

F 2.4.1 Establishing the vehicle maintenance yard and secured storage areas

- The vehicle maintenance yard and secured storage area will be established as far as is practicable, outside the flood plain, above the 1 in 50 flood level mark within the boundaries of the mining/prospecting area.
- The area chosen for these purposes shall be the minimum reasonably required and involve the least disturbance to tree and plant life. Topsoil shall be handled as described in F 2.1 above.
- The storage area shall be securely fenced and all hazardous substances and stocks such as diesel, oils, detergents, etc., shall be stored therein. Drip pans, a thin concrete slab or a facility with PVC lining, shall be installed in such storage areas with a view to prevent soil and water pollution.
- The location of both the vehicle maintenance yard and the storage areas are to be indicated on the layout plan.
- No vehicle may be extensively repaired in any place other than in the maintenance yard.

F 2.4.2 Maintenance of vehicles and equipment

- The maintenance of vehicles and equipment used for any purpose during the mining/prospecting operation will take place only in the maintenance yard area.
- Equipment used in the mining/prospecting process must be adequately maintained so that during operations it does not spill oil, diesel, fuel, or hydraulic fluid.
- Machinery or equipment used on the mining/prospecting area must not constitute a pollution hazard in respect of the above substances. The Regional Manager shall order such equipment to be repaired or withdrawn from use if he or she considers the equipment or machinery to be polluting and irreparable.

F 2.4.3 Waste disposal

- Suitable covered receptacles shall be available at all times and conveniently placed for the disposal of waste.
- All used oils, grease or hydraulic fluids shall be placed therein and these receptacles will be removed from the site on a regular basis for disposal at a registered or licensed disposal facility.
- All spills should be cleaned up immediately to the satisfaction of the Regional Manager by removing the spillage together with the polluted soil and by disposing of them at a recognised facility.

F 2.4.4 Rehabilitation of vehicle maintenance yard and secured storages areas

- On completion of mining/prospecting operations, the above areas shall be cleared of any contaminated soil, which must be dumped as referred to in section F 2.4.3 above.
- All buildings, structures or objects on the vehicle maintenance yard and secured storage areas shall be dealt with in accordance with section 44 of the Mineral and Petroleum Resources Development Act, 2002.
- The surface shall then be ripped or ploughed to a depth of at least 300mm and the topsoil previously stored adjacent the site, shall be spread evenly to its original depth over the whole area. The area shall then be fertilised if necessary (based on a soil analysis).
- The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/prospecting operation be corrected and the area be seeded with a seed mix to his or her specification.

F 3 OPERATING PROCEDURES IN THE MINING AREA

F 3.1 Limitations on mining/prospecting

- The mining of or prospecting for precious stones shall take place only within the approved demarcated mining or prospecting area.
- Mining/ prospecting may be limited to the areas indicated by the Regional Manager on assessment of the application.
- The holder of the mining permit/ prospecting right shall ensure that operations take place only in the demarcated areas as described in section F 1.1.2 above.
- Operations will not be conducted closer than one and a half times the height of the bank from the edge of the river channel and in such manner that the stability of the bank of the river is effected.
- Precautions shall also be taken to ensure that the bank of the river is adequately protected from scouring or erosion. Damage to the bank of the river caused by the operations, shall be rehabilitated to a condition acceptable to the Regional Manager at the expense of the holder.
- Restrictions on the disturbance of riverine vegetation in the form of reeds or wetland vegetation must be adhered to. The presence of these areas must be entered in Part of the programme and indicated on the layout plan.

F 3.2 Mining/ prospecting operations within the riverine environment

NOTE: The Department of Water Affairs and Forestry may impose additional conditions which must be attached to this EMP. In this regard, please see the Best Practice Guideline for small scale mining developed by DWAF (BPG 2.1)

(available from <http://www.dwaf.gov.za>)

- The mining or prospecting for precious stones in the river or the banks of the river will be undertaken only after the Regional Manager has consulted with the Department of Water Affairs and Forestry.
- The canalisation of a river will not be undertaken unless the necessary permission has been obtained from the Department of Water Affairs and Forestry. Over and above the conditions imposed by the said Department, which conditions shall form part of this EMPlan, the following will also apply:
 - ❖ The canalisation of the flow of the river over different parts of the river bed shall be constructed in such a manner that the following are adhered to at all times:
 - ◆ The flow of the river may not be impeded in any way and damming upstream may not occur.
 - ◆ The canalisation of the flow may not result in scouring or erosion of the river-bank.
 - ◆ Well points or extraction pumps in use by other riparian users may not be interfered with and canalisation may not impede the extraction of water at these points.
- Access to the riverbed for the purpose of conducting excavations in the river-bed, shall be through the use of only one access at a time. The location of the access to the river channel across the river-bank shall be at a point of the river-bank where the least excavation and damage to vegetation will occur and shall not be wider than is reasonably required. The position of the river access together with all planned future access points, must be indicated on the layout plan.

F 3.2.1 Rehabilitation of access to river-bed

- When rehabilitating the access point, the original profile of the river-bank will be re-established by backfilling the access point with the original material excavated or other suitable material.
- The topsoil shall then be returned over the whole area to its original depth and if necessary fertilised and the vegetation allowed to grow.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/prospecting operation be corrected and the area be seeded with a seed mix to his or her specification.
- In the event of damage from an occurrence where high flood waters scour and erode access points in the process of rehabilitation over the river-bank or an access point currently in use, repair of such damage shall be the sole responsibility of the holder of the mining permit or prospecting right.
- Repair to the river-bank to reinstate its original profile to the satisfaction of the Regional Manager must take place immediately after such event has occurred and the river has subsided to a point where repairs can be undertaken.
- Final acceptance of rehabilitated river access points will be awarded only after the vegetation has re-established to a point where the Regional Manager is satisfied

that the river-bank is stable and that the measures installed are of durable nature and able to withstand high river-flow conditions.

F 3.2.2 Rehabilitation of mining/prospecting area in the bed of the river

- The goal of rehabilitation with respect to the area where mining/prospecting has taken place in the river-bed is to leave the area level and even, and in a natural state containing no foreign debris or other materials and to ensure the hydrological integrity of the river by not attenuating or diverting any of the natural flow.
- All scrap and other foreign materials will be removed from the bed of the river and disposed of as in the case of other refuse (see section F 2.3.2 above), whether these accrue directly from the mining/prospecting operation or are washed on to the site from upstream.
- Removal of these materials shall be done on a continuous basis and not only at the start of rehabilitation.
- Where reeds or other riverine vegetation have been removed from areas, these shall be re-established systematically in the approximate areas where they occurred before mining/prospecting.
- An effective control programme for the eradication of invader species and other exotic plants, shall be instituted on a regular basis over the entire mining/prospecting area under the control of the holder of the mining permit/prospecting right, both during mining/prospecting and at the stage of final rehabilitation.

2. THE WATER USE LICENCE

The National Water Act, (Act 36 of 1998), is based on the principles of sustainability, efficiency and equity, meaning that the protection of water resources must be balanced with their development and use.

In addition to being issued with a prospecting right or mining permit a small-scale miner may also need to get a **water use licence** for the proposed water uses that will take place, except in certain cases.

NOTE: *The Department of Water Affairs and Forestry (DWAF) developed specific Best Practice Guideline for small scale mining that relates to stormwater management, erosion and sediment control and waste management. Copies of these guidelines can be obtained from the regional office of DME or DWAF.*

Applications for a water use licence must be made in good time, such that approval can be granted before a water use activity can begin. The appropriate licence forms for each kind of expected water use should be completed together with supporting documentation. The main supporting documents required is a technical report. To make the technical report easier, you can refer to sections in this EMPlan, as most of what the technical report requires has already been done in the EMPlan. If you refer to the EMPlan it must be attached to the technical report.

F 3.3 EXCAVATIONS

F 3.3.1 Establishing the excavation areas

- Whenever any excavation is undertaken for the purpose of locating and/or extracting ore bodies of all types of minerals, including precious stone-bearing gravels, the following operating procedures shall be adhered to:
 - ❖ Topsoil shall, in all cases (except when excavations are made in the river-bed), be handled as described in F 2.1 above.
 - ❖ Excavations shall take place only within the approved demarcated mining/prospecting area.
 - ❖ Overburden rocks and coarse material shall be placed concurrently in the excavations or stored adjacent to the excavation, if practicable, to be used as backfill material once the ore or gravel has been excavated.
 - ❖ Trenches shall be backfilled immediately if no ore or precious stone-bearing gravel can be located.

F 3.3.2 Rehabilitation of excavation areas

The following operating procedures shall be adhered to:

- The excavated area must serve as a final depositing area for the placement of tailings during processing.
- Rocks and coarse material removed from the excavation must be dumped into the excavation simultaneously with the tailings.
- Waste, as described in paragraph F 2.3.2 above, will not be permitted to be deposited in the excavations.
- Once excavations have been refilled with overburden, rocks and coarse natural materials and profiled with acceptable contours and erosion control measures, the topsoil previously stored, shall be returned to its original depth over the area.
- The area shall be fertilised if necessary to allow vegetation to establish rapidly. The site shall be seeded with a local or adapted indigenous seed mix in order to propagate the locally or regionally occurring flora.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/ prospecting operation, be corrected and the area be seeded with a vegetation seed mix to his or her specification.

F 3.4 PROCESSING AREAS AND WASTE PILES (DUMPS)

F 3.4.1 Establishing processing areas and waste piles

- Processing areas and waste piles shall not be established within 100 metres of the edge of any river channel or other water bodies.
- Processing areas should be established, as far as practicable, near the edge of excavations to allow the waste, gravel and coarse material to be processed therein.

- The areas chosen for this purpose shall be the minimum reasonably required and involve the least disturbance to vegetation.
- Prior to development of these areas, the topsoil shall be removed and stored as described in paragraph F 2.1 above.
- The location and dimensions of the areas are to be indicated on the layout plan and once established, the processing of ore containing precious stones shall be confined to these areas and no stockpiling or processing will be permitted on areas not correctly prepared.
- Tailings from the extraction process must be so treated and/or deposited that it will in no way prevent or delay the rehabilitation process.

F 3.4.2 Rehabilitation of processing areas

- Coarse natural material used for the construction of ramps must be removed and dumped into the excavations.
- On completion of mining/prospecting operations, the surface of the processing areas especially if compacted due to hauling and dumping operations, shall be scarified to a depth of at least 300mm and graded to an even surface condition and the previously stored topsoil will be returned to its original depth over the area.
- Prior to replacing the topsoil the material that was removed from the processing area will be replaced in the same order as it originally occurred.
- The area shall then be fertilised if necessary to allow vegetation to establish rapidly. The site shall be seeded with a local, adapted indigenous seed mix.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/prospecting operation be corrected and the area be seeded with a seed mix to his or her specification.

F 3.5 TAILINGS DAM(S) (SLIMES DAM)

The permission of the Regional Manager must be obtained should a tailings dam be constructed for the purpose of handling the tailings of the mining/prospecting operations. The construction, care and maintenance of tailings dams have been regulated and the relevant regulation is copied herewith, both for your information and as a guideline to the commissioning, management, operation, closing and aftercare of a tailings deposition facility.

Regulation 73 promulgated under the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) requires the following:

Management of residue stockpiles and deposits

56. (1) *The assessment of impacts relating to the management of residue stockpiles and deposits, where appropriate, must form part of the environmental impact assessment report and environmental management programme or the environmental management plan.*
- (2) *Residue characterisation*

- (a) Mine residue must be characterised to identify any potentially significant health and safety hazard and environmental impact that may be associated with the residue when stockpiled or deposited at the site(s) under consideration.
- (b) Residue stockpiles and deposits must be characterised in terms of its –
- (i) physical characteristics, which may include -
 - (aa) the size distribution of the principal constituents;
 - (bb) the permeability of the compacted material;
 - (cc) void ratios of the compacted material;
 - (dd) the consolidation or settling characteristics of the material under its own weight and that of any overburden;
 - (ee) the strength of compacted material;
 - (ff) the specific gravity of the solid constituents; and
 - (gg) the water content of the material at the time of deposition, after compaction, and at other phases in the life of the deposit.
 - (ii) chemical characteristics, which may include -
 - (aa) the toxicity;
 - (bb) the propensity to oxidize and /or decompose;
 - (cc) the propensity to undergo spontaneous combustion;
 - (dd) the pH and chemical composition of the water separated from the solids;
 - (ee) stability and reactivity and the rate thereof; and
 - (ff) neutralising potential.
 - (iii) mineral content, which include the specific gravity of the residue particles and its impact on particle segregation and consolidation;
- (3) Classification of residue stockpiles and deposits
- (a) All residue stockpiles and deposits must be classified into one or a combination of the following categories –
- (i) the safety classification to differentiate between residue stockpiles and deposits of high, medium and low hazard on the basis of their potential to cause harm to life or property; and
 - (ii) the environmental classification to differentiate between residue stockpiles and deposits with -
 - (aa) a potentially significant impact on the environment due to its spatial extent, duration and intensity of potential impacts; or
 - (bb) no potentially significant impact on the environment.
- (b) All mine residue stockpiles and deposits must be classified by a suitably qualified person(s).
- (c) The classification of residue stockpiles and deposits shall determine the –
- (i) level of investigation and assessment required;
 - (ii) requirements for design, construction, operation, decommissioning, closure and post closure maintenance; and
 - (iii) qualifications and expertise required of persons undertaking the investigations, assessments, design, construction thereof.
- (d) The safety classification of residue stockpiles and deposits shall be based on the following criteria –

Number of residents in zone of influence	Number of workers in zone of influence	Value of third party interest in zone of influence	Depth to underground workings	Classification
0	< 10	0 – R2 m	> 200m	Low hazard
1 – 10	11 – 100	R 2 m – R20 m	50 m – 200 m	Medium hazard

> 10	> 100	> R20 m	< 50 m	High hazard
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- (e) A risk analysis must be carried out and documented on all high hazard residue stockpiles and deposits.
- (f) The environmental classification of residue stockpiles and deposits must be undertaken on the basis of –
- (i) the characteristics of the residue;
 - (ii) the location and dimensions of the deposit (height, surface area);
 - (iii) the importance and vulnerability of the environmental components that are at risk; and
 - (iv) the spatial extent, duration and intensity of potential impacts.
- (g) An assessment of the environmental impacts shall be done on all environmental components which are significantly affected.
- (h) The assessment of impacts and analyses of risks shall form part of the environmental assessment and management programme.
- (4) Site selection and investigation:
- (a) The process of investigation and selection of a site must entail –
- (i) the identification of a sufficient number of possible candidate sites to ensure adequate consideration of alternative sites;
 - (ii) qualitative evaluation and ranking of all alternative sites;
 - (iii) qualitative investigation of the top ranking sites to review the ranking done in (ii);
 - (iv) a feasibility study to be carried out on the highest ranking site(s), involving –
 - (aa) a preliminary safety classification;
 - (bb) an environmental classification;
 - (cc) geotechnical investigations; and
 - (dd) groundwater investigations.
- (b) The geotechnical investigations may include-
- (i) the characterization of the soil profile over the entire area to be covered by the residue facility and associated infrastructure to define the spatial extent and depth of the different soil horizons;
 - (ii) the characterization of the relevant engineering properties of foundations soils and the assessment of strength and drainage characteristics.
- (c) The groundwater investigations may include-
- (i) the potential rate of seepage from the residue facility;
 - (ii) the quality of such seepage;
 - (iii) the geohydrological properties of the strata within the zone that could potentially be affected by the quality of seepage;
 - (iv) the vulnerability and existing potential use of the groundwater resource within the zone that could potentially be affected by the residue facility.
- (d) From these investigations, a preferred site must be identified.
- (e) Further investigation on the preferred site, shall include –
- (i) land use;
 - (ii) topography and surface drainage;
 - (iii) infrastructure and man-made features;
 - (iv) climate;
 - (v) flora and fauna;

- (vi) soils;
 - (vii) ground water morphology, flow, quality and usage; and
 - (viii) surface water.
- (f) The investigations, laboratory test work, interpretation of data and recommendations for the identification and selection of the most appropriate and suitable site for the disposal of all residue that have the potential to generate leachate that could have a significant impact on the environment and groundwater must be carried out by a suitably qualified person.

(5) Design of residue stockpile and deposit

- (a) The design of the residue stockpile and deposit shall be undertaken by a suitably qualified person.
- (b) An assessment of the typical soil profile on the site is required for residue stockpiles and deposits which -
- (i) have a low hazard potential; and
 - (ii) have no significant impact on the environment.
- (c) The design of the residue stockpile and deposit must take into account all phases of the life cycle of the stockpile and deposit, from construction through to closure and must include -
- (i) the characteristics of the mine residue;
 - (ii) the characteristics of the site and the receiving environment;
 - (iii) the general layout of the stockpile or deposit, whether it is a natural valley, ring dyke, impoundment or a combination thereof and its 3-dimensional geometry at appropriate intervals throughout the planned incremental growth of the stockpile or deposit;
 - (iv) the type of deposition method used; and
 - (v) the rate of rise of the stockpile or deposit.
- (d) Other design considerations, as appropriate to the particular type of stockpile and deposit must be incorporated -
- (i) the control of storm water on and around the residue stockpile or deposit by making provision for the maximum precipitation to be expected over a period of 24 hours with a frequency of once in a 100 years, in accordance with the regulations made under section 8 of the National Water Act, 1998;
 - (ii) the provision, throughout the system, of a freeboard of at least 0.5 m above the expected maximum water level, in accordance with regulations made under the National Water Act, 1998, to prevent overtopping;
 - (iii) keeping the pool away from the walls; where there are valid technical reasons for deviating from this, adequate motivation must be provided and the design must be reviewed by a qualified person as required in terms of sections 9(6) or 9(7) of the Mine Health and Safety Act, 1996;
 - (iv) the control of decanting of excess water under normal and storm conditions;
 - (aa) the retention of polluted water in terms of polluted water in terms of GN R997(9), where measures may be required to prevent water from the residue deposit from leaving the residue management system unless it meets prescribed requirements;
 - (bb) the design of the penstock, outfall pipe, under-drainage system and return water dams;
 - (cc) the height of the phreatic surface, slope angles and method of construction of the outer walls and their effects on shear stability;

- (dd) the erosion of slopes by wind and water, and its control by (ee) vegetation, berms or catchment paddocks; and
 - (ee) the potential for pollution.
- (e) A design report and operating manual shall be drawn up for all residue stockpiles and deposits which –
- (i) have a medium to high hazard; and
 - (ii) have a potentially significant impact on the environment.
- (f) Relevant information must be included in the draft environmental management programme or environmental management plan.
- (6) Construction and operation of residue deposits:
- (a) The holder of any right or permit in terms of the Act, must ensure that–
- (i) the residue deposits, including any surrounding catchment paddocks, is constructed and operated in accordance with the approved environmental management programme or environmental management plan;
 - (ii) the design of the residue deposit is followed implicitly throughout the construction thereof, and that any deviations from the design be approved by the Regional Manager and the environmental manage programme and environmental management plan be amended accordingly;
 - (iii) as part of the monitoring system, measurements of all residues transported to the site and of all surplus water removed from the site are recorded;
 - (iv) the provision for appropriate security measures be implemented to limit unauthorised access to the site and intrusion into the residue deposit;
 - (v) specific action be taken in respect of any sign of pollution;
 - (vi) adequate measures be implemented to control dust pollution and erosion of the slopes; and
 - (vii) details of rehabilitation of the residue deposit be provided in the draft environmental management programme or environmental management plan.
- (b) A system of routine maintenance and repair in respect of the residue deposit must be implemented to ensure the ongoing control of pollution, the integrity of rehabilitation and health and safety matters at the site.
- (7) Monitoring of residue stockpiles and deposits:
- (a) A monitoring system for residue stockpiles and deposits with respect to potentially significant impacts as identified in the environmental assessment must be included in the environmental management programme or environmental management plan.
- (b) In the design of a monitoring system for a residue stockpile or deposit, consideration must be given to –
- (i) baseline and background conditions with regard to air, surface and groundwater quality;
 - (ii) the air, surface and groundwater quality objectives;
 - (iii) residue characteristics;
 - (iv) the degree and nature of residue containment;
 - (v) the receiving environment and specifically the climatic, local geological, hydrogeological and geochemical conditions;
 - (vi) potential migration pathways;
 - (vii) potential impacts of leachate;
 - (viii) the location of monitoring points and the prescribed monitoring protocols; and
 - (ix) the reporting frequency and procedures.

- (8) Decommissioning, closure and after care:
- (a) The decommissioning, closure and post closure management of residue deposits must be addressed in the closure plan, which must contain the following -
- (i) the environmental classification, including assumptions on which the classification were based;
 - (ii) the closure objectives, final land use or capability;
 - (iii) conceptual description and details for closure and post closure management;
 - (iv) cost estimates and financial provision for closure and post-closure management; and
 - (v) residual impacts, monitoring and requirements to obtain mine closure in terms of the Act.

F 3.6 FINAL REHABILITATION

- All infrastructure, equipment, plant, temporary housing and other items used during the mining period will be removed from the site (section 44 of the MPRDA)
- Waste material of any description, including receptacles, scrap, rubble and tyres, will be removed entirely from the mining area and disposed of at a recognised landfill facility. It will not be permitted to be buried or burned on the site.
- Final rehabilitation shall be completed within a period specified by the Regional Manager.

F 4 MONITORING AND REPORTING

F 4.1 Inspections and monitoring

- Regular monitoring of all the environmental management measures and components shall be carried out by the holder of the prospecting right, mining permit or reconnaissance permission in order to ensure that the provisions of this programme are adhered to.
- Ongoing and regular reporting of the progress of implementation of this programme will be done.
- Various points of compliance will be identified with regard to the various impacts that the operations will have on the environment.
- Inspections and monitoring shall be carried out on both the implementation of the programme and the impact on plant and animal life.
- Visual inspections on erosion and physical pollution shall be carried out on a regular basis.

Regulation 55 promulgated in terms of the MPRDA requires the following:

Monitoring and performance assessments of environmental management programme or plan

- (1) As part of the general terms and conditions for a prospecting right, mining right or mining permit and in order to ensure compliance with the approved environmental management programme or plan and to assess the continued appropriateness and adequacy of the environmental management programme or plan, the holder of such right must-
- (a) conduct monitoring on a continuous basis;

- (b) conduct performance assessments of the environmental management programme or plan as required; and
- (c) compile and submit a performance assessment report to the Minister to demonstrate adherence to sub-regulation (b).

(2) The frequency of performance assessment reporting shall be-

- (a) in accordance with the period specified in the approved environmental management programme or plan, or, if not so specified;
 - (b) as agreed to in writing by the Minister; or
 - (c) biennially (every two years).
- (3) The performance assessment report, shall be in the format provided in guidelines that will from time to time be published by the Department and shall as a minimum contain-
- (a) information regarding the period that applies to the performance assessment;
 - (b) the scope of the assessment;
 - (c) the procedure used for the assessment;
 - (d) the interpreted information gained from monitoring the approved environmental management programme or plan;
 - (e) the evaluation criteria used during the assessment;
 - (f) the results of the assessment; and
 - (g) recommendations on how and when deficiencies that are identified and/or aspects of non-compliance will be rectified.

(4) The holder of a prospecting right, mining right or mining permit may appoint an independent qualified person(s) to conduct the performance assessment and compile the performance assessment report provided that no such appointment shall relieve the holder of the responsibilities in terms of these regulations.

(5) Subject to section 30(2) of the Act, the performance assessment report submitted by the holder shall be made available by the Minister to any person on request.

(6) If upon consideration by the Minister, the performance assessment executed by the holder is not satisfactory or the report submitted by the holder is found to be unacceptable, the holder must-

- (a) repeat the whole or relevant parts of the performance assessment and revise and resubmit the report; and/or
- (b) submit relevant supporting information; and/or
- (c) appoint an independent competent person(s) to conduct the whole or part of the performance assessment and to compile the report.

(7) If a reasonable assessment indicates that the performance assessment cannot be executed satisfactorily by the holder or a competent person(s) appointed by the holder, the Minister may appoint an independent performance assessment person(s) to conduct such performance assessment. Such appointment and execution shall be for the cost of the holder.

(8) When the holder of a prospecting right, mining right or mining permit intends closing such operation, a final performance assessment shall be conducted and a report submitted to the Minister to ensure that -

- (a) the requirements of the relevant legislation have been complied with;
- (b) the closure objectives as described in the environmental management programme or plan have been met; and
- (c) all residual environmental impacts resulting from the holder's operations have been identified and the risks of latent impacts which may occur have been identified, quantified and arrangements for the management thereof have been assessed.

(9) The final performance assessment report shall either precede or accompany the application for a closure certificate in terms of the Act.

F 4.2 Compliance reporting / submission of information

- Layout plans will be updated on a regular basis and updated copies will be submitted on a biennial basis to the Regional Manager
- Reports confirming compliance with various points identified in the environmental management programme will be submitted to the Regional Manager on a regular basis and as decided by the said manager .
- Any emergency or unforeseen impact will be reported as soon as possible.
- An assessment of environmental impacts that were not properly addressed or were unknown when the programme was compiled shall be carried out and added as a corrective action.

F 5 CLOSURE

When the holder of a prospecting right, mining permit or reconnaissance permission intends closing down his/her operations, an environmental risk report shall accompany the application for closure. The requirements of such a risk report is contained in Regulation 60 of the Regulations promulgated in terms of the Act and is quoted below :

F 5.1 ENVIRONMENTAL RISK REPORT

"An application for a closure certificate must be accompanied by an environmental risk report which must include-

- (a) *the undertaking of a screening level environmental risk assessment where-*
 - (i) *all possible environmental risks are identified, including those which appear to be insignificant;*
 - (ii) *the process is based on the input from existing data;*
 - (iii) *the issues that are considered are qualitatively ranked as –*
 - (aa) *a potential significant risk; and/or*
 - (bb) *a uncertain risk; and/or*
 - (cc) *an insignificant risk.*
- (b) *the undertaking of a second level risk assessment on issues classified as potential significant risks where-*
 - (i) *appropriate sampling, data collection and monitoring be carried out;*
 - (ii) *more realistic assumptions and actual measurements be made; and*
 - (iii) *a more quantitative risk assessment is undertaken, again classifying issues as posing a potential significant risk or insignificant risk.*
- (c) *assessing whether issues classified as posing potential significant risks are acceptable without further mitigation;*
- (d) *issues classified as uncertain risks be re-evaluated and re-classified as either posing potential significant risks or insignificant risks;*
- (e) *documenting the status of insignificant risks and agree with interested and affected persons;*
- (f) *identifying alternative risk prevention or management strategies for potential significant risks which have been identified, quantified and qualified in the second level risk assessment;*
- (g) *agreeing on management measures to be implemented for the potential significant risks which must include-*
 - (i) *a description of the management measures to be applied;*
 - (ii) *a predicted long-term result of the applied management measures;*
 - (iii) *the residual and latent impact after successful implementation of the management measures;*
 - (iv) *time frames and schedule for the implementation of the management measures;*
 - (v) *responsibilities for implementation and long-term maintenance of the management measures;*

- (vi) *financial provision for long-term maintenance; and*
- (vii) *monitoring programmes to be implemented."*

F 5.2 CLOSURE OBJECTIVES

Closure objectives form part of this EMP plan and must-

- (a) identify the key objectives for mine closure to guide the project design, development and management of environmental objectives;
- (b) provide broad future land use objective(s) for the site; and
- (c) provide proposed closure cost

F 5.3 CONTENTS OF CLOSURE PLAN

A closure plan forms part of the EMP and must include the following:

- (a) a description of the closure objectives and how these relate to the prospecting or mine operation and its environmental and social setting;
- (b) a plan contemplated in Regulation 2(2), coordinated according to generally accepted standards, showing the land or area under closure;
- (c) a summary of the regulatory requirements and conditions for closure negotiated and documented in the environmental management programme or plan;
- (d) a summary of the results of the environmental risk report and details of identified residual and latent impacts;
- (e) a summary of the results of progressive rehabilitation undertaken;
- (f) a description of the methods to decommission each prospecting or mining component and the mitigation or management strategy proposed to avoid, minimize and manage residual or latent impacts;
- (g) details of any long-term management and maintenance expected;
- (h) details of financial provision for monitoring, maintenance and post closure management, if required;
- (i) a plan or sketch at an appropriate scale describing the final land use proposal and arrangements for the site;
- (j) a record of interested and affected persons consulted; and
- (k) technical appendices, if any.

F 5.4 TRANSFER OF ENVIRONMENTAL LIABILITIES TO A COMPETENT PERSON

Should the holder of a prospecting right, mining permit or reconnaissance permission wish to transfer any environmental liabilities and responsibilities to another person or persons, the following will pertain:

- (1) An application to transfer environmental liabilities to a competent person in terms of section 48) of the Act, must be completed on Form O as set out in Annexure 1 to the Regulations and be lodged to the Minister for consideration.
- (2) The holder of a prospecting right, mining right or mining permit may transfer liabilities and responsibilities as identified in the environmental management plan and the required closure plan to a competent person as contemplated in Regulation 58.
- (3) When considering the transfer of environmental liabilities and responsibilities in terms of section 48) of the Act, the Minister must consult with any State department which administers any law relating to matters affecting the environment.
- (4) No transfer of environmental liabilities and responsibilities to a competent person may be made unless the Chief Inspector of Mines and the Department of Water Affairs and Forestry have confirmed in writing that the person to whom the liabilities and responsibilities is transferred to, have the necessary qualifications pertaining to health and safety and management of potential pollution of water resources.

F 5.5 NOTES ON LEGAL PROVISIONS

NOTE: The holder of a prospecting right, mining permit or reconnaissance permission must also take cognisance of the provisions of other legislation dealing with matters relating to conservation, and which include, *inter alia*, the following:

- * National Monuments Act, 1969 (Act 28 of 1969).
- * National Parks Act, 1976 (Act 57 of 1976)
- * Environmental Conservation Act, 1989 (Act 73 of 1989)
- * National Environmental Management Act, 1998 (Act No. 107 of 1998)
- * Atmospheric Pollution Prevention Act, 1965 (Act 45 of 1965)
- * The National Water Act, 1998 (Act 36 of 1998)
- * Mine Safety and Health Act, 1996 (Act 29 of 1996)
- * The Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983).

G. SPECIFIC ADDITIONAL REQUIREMENTS DETERMINED BY THE REGIONAL MANAGER.

Officials in regional offices may use the following matrix to determine the necessity for additional objectives to be included in this Section of the document:

Activity	POTENTIAL ENVIRONMENTAL IMPACTS OF MINING									
	Disturbance					Pollution			Visual	
	Landform	Soil	Flora	Fauna	Heritage	Land	Water	Air	Noise	
Mining Access										
Topsoil removal										
Overburden removal										
Mineral Extraction										
Tailings disposal										
Water Abstraction										
Pipeline route										

Transport									
Accommodation									
Waste Disposal									
Electricity									
Hydrocarbon storage									
Workforce									

Please indicate VL, L, M, H, and VH for Very Low, Low, Medium, high and Very High in each column to determine the main area and severity of impact.

G. This section outlines the specific additional requirements that may be set for the operation by the Regional Manager. Additional requirements will only have been set if the Regional Manager is of the opinion that there are specific impacts on the environment which will not be adequately mitigated by the provisions set within the standard version of the Environmental Management Plan. These requirements form part of the Environmental Management Plan and all elements and instructions contained herein must be complied with by the applicant.

H. UNDERTAKING

I., **Muraga Mudau** the undersigned and duly authorised thereto by **Come What May Properties 5 (Pty) Ltd**

Company have studied and understand the contents of this document in it's entirety and hereby duly undertake to adhere to the conditions as set out therein including the amendment(s) agreed to by the Regional Manager in Section G and approved on

Signed atJohannesburg..... this05thday of...November.....2010.....



.....
Signature of applicant

...Director.....
Designation

Agency declaration: This document was completed byon behalf of.....



Approved in terms of Section 39(4) of the Mineral and Petroleum Resources Development Act, 2002 (Act 29 of 2002)

Signed at.....this.....day of.....20.....

.....
REGIONAL MANAGER

REGION:.....

This document has been compiled by the Directorate: Mine Environmental Management of the Department of Minerals and Energy at their Head Office in Pretoria. Any comments, suggestions or inputs will be sincerely appreciated. If you have any comments or suggestions regarding this document or its application, please forward your contribution to:

The Director: Mine Environmental Management Tel : 012 317 9288
Private Bag X 59 Fax: 012 320 6786
PRETORIA E-mail: dorothy@mepta.pwv.gov.za
0001

COME WHAT MAY PROPERTIES 5 (PTY) LTD: OPERATIONAL IMPACTS: NC 30/5/1/1/2/2362 PR

Possible Impact	Mitigation measures	Monitoring Timeframe
Noise	<ul style="list-style-type: none"> • Silencers will be used for employees manning the rigs. • Operation will be during the day to minimize noise to the residential areas. 	Throughout
Oil spillage	<ul style="list-style-type: none"> • Bunded cement will be used for storage of diesel and other fluids. • Spillage will be treated with appropriate chemicals. 	Once a week
Topsoil and grass removed	<ul style="list-style-type: none"> • Grass removed will be reseeded. • Portion of topsoil removed during drilling will be filled back. 	After completion

5 Year EMP Quantum of Financial provision -

Come What May Properties

Donkerbos 727

For the rehabilitation of :	Number of Units	Unit rate	Single Cost	Amount
Access Roads (per Km)	None required Drilling will make use of current roads			
Ripper / Dozer (Site establishment)				
Ripper / Dozer (hours)				
Labour (hours) waste removal	15	100		1 500
Topsoil / Fertilizer / water (m2)	If required on the advice of a consultant			
Seeding (m2)				
Subtotal roads				1 500
Drillsites (Per Hole)	None required Drilling will make use of current roads			
Ripper / Dozer (Site establishment)				
Ripper / Dozer (hours)				
Labour (hours)				
Waste Removal	10	100		1 000
Topsoil / Fertilizer / water (m2)	If required on the advice of a consultant			
Seeding (m2)				
Beacon	10	100		1 000
Subtotal Drillsites				2 000
				2 000
Trenches (Per Trench @ 20m)	None Planned			
Ripper / Dozer (Site establishment)				0
Ripper / Dozer (hours)				0

Labour (hours)				0
Waste Removal				
Topsoil / Fertilizer / water (m2)	If required on the advice of a consultant			
Seeding (m2)				
Sub total Per Trench				0
Subtotal Trenches				0
Other (specified below)				
Annual Costs (Per Year)				
	3			
EMPR Consultant	3	1500		4 500
EMPR Head office				0
EMPR General	2	1300		2 600
Sub total per Year				7 100
Total Consulting				21 300
Sub totals				23 300
10 % supervision				25 630
14 % VAT				3 588
TOTAL				29 218

COME WHAT MAY PROPERTIES 5 (PTY) LTD

LEGEND



Area : 4047.195 (Ha)

SCALE 1: 150 000

SIGNATURE

REGIONAL MANAGER

DATE

F.A.O.B.O.

COME WHAT MAY PROPERTIES 5 (PTY) LTD

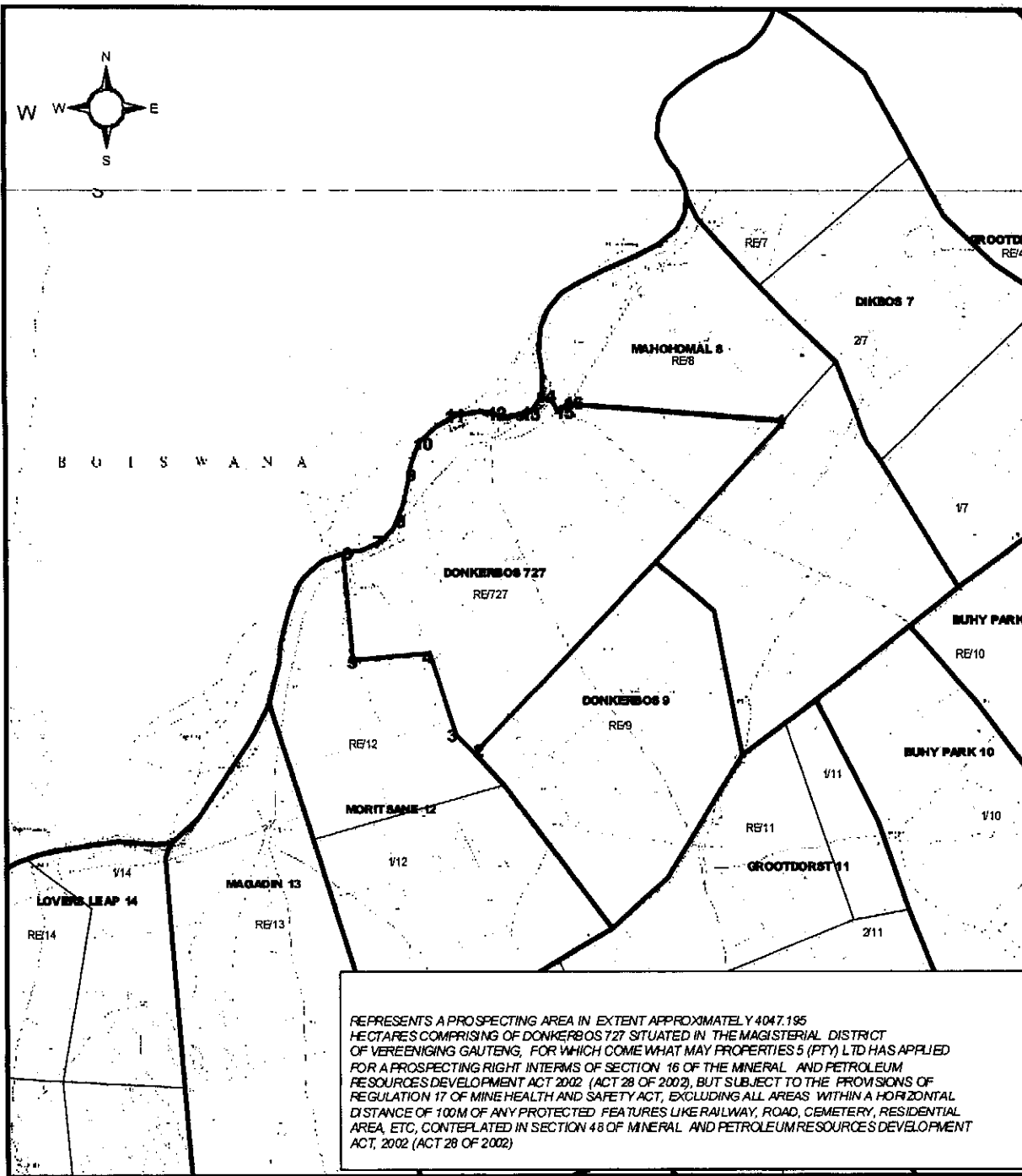
DATE

REFERENCE POINTS

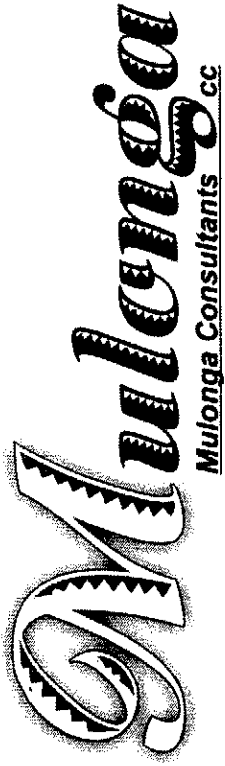
DONKERBOS 727

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The above points are digitized and not accurate, therefore they are subject to confirmation.



REPRESENTS A PROSPECTING AREA IN EXTENT APPROXIMATELY 4047.195 HECTARES COMPRISING OF DONKERBOS 727 SITUATED IN THE MAGISTERIAL DISTRICT OF VEREENIGING GAUTENG, FOR WHICH COME WHAT MAY PROPERTIES 5 (PTY) LTD HAS APPLIED FOR A PROSPECTING RIGHT INTERMS OF SECTION 16 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 2002 (ACT 28 OF 2002), BUT SUBJECT TO THE PROVISIONS OF REGULATION 17 OF MINE HEALTH AND SAFETY ACT, EXCLUDING ALL AREAS WITHIN A HORIZONTAL DISTANCE OF 100M OF ANY PROTECTED FEATURES LIKE RAILWAY, ROAD, CEMETERY, RESIDENTIAL AREA, ETC, CONTEMPLATED IN SECTION 48 OF MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002)



2010-10-05

Private Bag X10

FLAMWOOD

2572

Attention: A van Wyk

By Registered mail

COME WHAT MAY PROPERTIES 5 (PTY) LTD: CONSULTATION IN TERMS OF SECTION 16(4) OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 2002 – ACT 28 OF 2002: FARM DONKERBOS 727. DMR REFERENCE NUMBER: NC 30/5/11/2/2362 PR.

In terms of Section 16(4) (b) of the Mineral and Petroleum Resources Development Act, 2002, I hereby wish to inform you, as the surface owner of the farm Donkerbos 727, that my client, Come What May Properties 5 (Pty) Ltd, has submitted a prospecting right application to the Department of Mineral Resources (DMR Kimberly) on the above mentioned portions of the farm. The DMR has accepted the application for Manganese and Iron Ore, for your information, a copy of the acceptance letter is attached.

You will see from the DMR's letter that my client is required to "notify and consult" with you on this matter and as such I would like to offer you the opportunity to consult with me, as their official representative, on any issues that may be of concern to you regarding this application and to feel free to make further contact with me should you deem it necessary.

A newspaper notice will be published on the local newspaper (Kuruman Bulletin) to inform the general public of the prospecting right application and if there is sufficient response from the public to that notice, I will set up a public meeting in the area in order to give those parties an opportunity to table their concerns regarding this application. A copy of the a plan that identifies the overall farm boundary and surrounding farms is attached for your reference

The proposed prospecting operation will be conducted through a diamond core drilling programme comprised of forty (40) boreholes over a period of three years. As yet the exact locations of these boreholes have not yet been finalized but wherever possible existing roads

Cnr Fourways Boulevard & Roos Avenue, Durham House 6, First floor, Fourways Office Park,
P.O Box 215, Fourways North, 2086

Tel: +27 11 467-3852, Fax: 0865176603, Cell: 082 0598408

Member: M Mjuda

on the property will be used to access the drill hole sites and as such the operation is unlikely to have any significant environmental impact beyond the immediate area of the drilling sites, which are to be no longer than 15 x 15m in area. In the event that a new access road is required to be constructed, then the route selected for the road will be discussed with yourself before any disturbance of ground takes place. In any event, before drilling takes place on your property a meeting will be set up between yourself and the appointed drilling contractor with the view to drafting an agreement covering the basic conditions to be observed by the drilling contractor whilst on your property and to cover any other issues that may be of concern to either party.

I would therefore like to request that you notify me of any issues you may have, so that they can be investigated and, if necessary addressed in the Environmental Management Plan (EMP). A draft copy of the EMP can be made available to you, on request, so that you have an opportunity to make further comments before it is submitted for approval to the DMR. Please forward your comments to the contact details mentioned below, two weeks before the 23rd August 2010 deadline as set by the DMR.

Yours faithfully

A handwritten signature in black ink, appearing to be 'M Mudau', enclosed within a circular scribble.

M Mudau

On behalf of Come What May Properties 5 (Pty) Ltd

Speler het hope talent

Annerie Louw

HERMAN VAN NIEKERK, die Hoerskool Noord-Kaap in Kimberley se kaptein en dank, is 'n staatkamer vir sy rugbyspan. In 'n verslag na die St. Suthians Festival word Herman beskryf as 'n speler met krag wat 'n merk-bare invloed het wanneer hy die bal kry.

Herman was klein tyd reeds kaptein van sy 0.9-0.11- en 0.13-spanne van die Laerskool Seodin, 0.14-, 0.16- en 0.18-spanne van die Hoërskool Noord-Kaap, asook kaptein van die 0.18-Griekwaspan op die Cravenweek vanjaar.

Hy is al vier keer as speler van die jaar by sy laer- en hoërskool en ook in die Griekwaspan tydens Cravenweek 2005 aangewys. Vanjaar is hy in twee van die drie wedstryde in die Cravenweek as speler van die wedstryd aangewys.

Hierdie talentvolle rugby-speler is die seun van Herman en Dorene van Niekerk van Kuruman. Hy beplan om hom in 2011 by die WP-rugby-instituut aan te sluit.



Foto: Verskaai

HERMAN VAN NIEKERK in aksie. Hy word beskryf as 'n goeie leier op die rugbyveld wat vir baie van sy skool se drieë verantwoordelik was. Herman wen hierdie week se Kalahari Bulletin-Del Rio Spur-eerbewys as Sportman van die Week.

Soccer clinic helps kids

Annerie Louw

Louise Prinsloo, says the purpose of the soccer clinic is to impart positive affirmation to assist children in dealing with Kuruman and Hotazel resulted in the hosting of a soccer clinic recently. Stakeholders involved were ACOV Kuruman, Pastor Johan and Esthie Raath of Upwards Soccer Clubs SA, volunteers from both communities and a generous donation from BHP Billiton's Mining Division.

A PARTNERSHIP between different stakeholders in Kuruman and Hotazel resulted in the hosting of a soccer clinic recently. Stakeholders involved were ACOV Kuruman, Pastor Johan and Esthie Raath of Upwards Soccer Clubs SA, volunteers from both communities and a generous donation from BHP Billiton's Mining Division.



Foto: Verskaai

HANRI HATTINGH (links) is tydens die Noord-Kaapse skaakroewe as beste 0.14-speler (meistes) van die toernooi aangewys. Dit is die derde keer dat sy die eerste plek in die toernooi behaal het. Sy het die geleentheid gehad om aan die Suid-Afrikaanse vrou-ope skaak-kampioenskappe in Bloemfontein deel te neem. Hanri het drie van die vyf spele gewen. Die spele het langer as 'n uur geduur. Vroue van oor die land heen kon deelneem aan Hanri vertel opgewonde die nommerneen-vroueskaakspeler van Suid-Afrika het ook 'n deelgeneem. Vier van die skool se leerlinge het provinsiale keure verwet en sal die Noord-Kaap in Johannesburg tydens die Suid-Afrikaanse skaakampioenskappe verteenwoordig. Hulle is Hattigh, Louis Kriel, Pieter Theron en Bianca Einkamerer.

Donderdag 30 September 2010

Goone What May Properties 5 (Pty) Ltd applications for

inspecting right has been accepted for Manganese and Iron Ore with

the Department of Mineral Resources (DMR Kimberley office) on the

following farms: Farm 252, Kareepan 425, Donkerbos 727, Lohatla 673

(excluding remainder), Klipbank 256, Witberg 295, Gosberg 346,

Droeg Poort 345, Titanic 221, Penfontein 449, Eldoret 274

(Kuruman & Hay District) NC 30/S/1/1/2/2367, 2366, 2365, 2364,

2363, 2362 & 2361 PR. All interested and affected parties in these areas

are invited to comment or make submissions on the Environmental

Management Plans (EMP) submitted to the DMR for the proposed

drilling programme; there are also possible impacts that could affect the

environment and surrounding inhabitants. Noise, Spillage, Mobilisation

of drilling rigs, etc. EMP copy is available from us or DMR for viewing

and discussion. Please contact us with these comments before 30

October 2010. Tel: 011 467 3852 or

Alternatively contact the DMR: 053 807 1700