



mineral resources

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

Private Bag X6076, Port Elizabeth, 6000
Tel: (041) 396 3934
Fax: 0865768004
Cnr. Diaz and Mount Roads
Mount Croix
Port Elizabeth, 6001

Enquiries: D. A. Watkins
E-mail: deidre.watkins@dme.gov.za

Reference:
Date:

11/27/113
23 February 2010

South African Heritage Resources Agency
P.O. Box 758
GRAHAMSTOWN
5200

ATTENTION: MR. T. LUNGILE

CASE NO: 2484

Sir / Madam

**CONSULTATION IN TERMS OF SECTION 40 OF THE MPRDA OF 2002:
ENVIRONMENTAL MANAGEMENT PLAN, GRAVEL MINING ON FARM 1404,
DIVISION OF EAST LONDON, EASTERN CAPE**

1. The above refers.
2. Attached, a copy of the EMP received from Power Rush Trading 193 cc.
3. Any written comments or requirements your department may have in this regard, to this office no later than **11 June 2010**. Failure to do so, will lead to the assumption that your department has no objection(s) or comments with regard to the said document. Comments may be submitted at your earliest convenience e.g. 30 days from the date hereof in order to reduce the turn around time for the application process.
4. Consultation in this regard has also been initiated with other relevant State Departments.
5. Kindly quote the relevant file reference number in all correspondence.

Yours faithfully

REGIONAL MANAGER

EASTERN CAPE

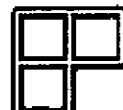
2010

ENVIRONMENTAL MANAGEMENT PLAN GRAVEL / SABUNGA MINING

An environmental management plan in support of a mining permit



ZOLEKANTSALUBA
POWER RUSH TRADING
4/14/2010



CONTENTS

Chapter	Description	Page
<hr/>		
1	INTRODUCTION.....	4
	1.1 Objective of the Environmental Management Plan (EMP).....	4
	1.2 Scope of the EMP.....	5
	1.3 Approach to the EMP.....	5-6
	1.4 Legal framework.....	6-7
	1.5 Need and desirability.....	7
2	DESCRIPTION OF THE PROJECT.....	8
	2.1 Details of the applicant.....	8
	2.2 Property description.....	8
	2.3 Project Description.....	9
	2.3.1 Type of mining.....	9
	2.3.2 Life span of the project	9

2.3.3 Description of Social and Natural environment.9-10

3	ENVIRONMENTAL ASSESSMENT AND MANAGEMENT.....11
3.1	General Environment.....11
3.2	Air quality.....11
3.3	Noise management.....11-12
3.4	Water management.....12
3.5	Disposal of waste material.....12
3.6	Soil management.....13
3.7	Erosion Control.....13
3.8	Sanitation Management.....13
3.9	PHOTOGRAPHS.....14-19
4	MINING DEVELOPMENT PLANS.....20
4.1	Mining Operation.....20
4.2	Mining Methodology.....20
4.2.1	Proposed mining alternative.....20
4.2.2	Other mining alternative.....21
5	CLOSURE AND REHABILITATION PLAN.....22
5.1	Closure.....22
5.2	Rehabilitation plan.....22-23
6	MONITORING PROGRAMME.....24-25
	APPENDIX 1.....26

APPENDIX 2	27
-------------------------	-----------

APPENDIX 3.....	28
------------------------	-----------

CHAPTER ONE: INTRODUCTION

Power Rush Trading (PRT) is intending to mine gravel / sabunga at the property described below under property description. There are mining activities already operating on site, these of cause are operating illegally.

PRT would like to initiate a more environmental sensitive and sustainable mining approach. This company always value the laws of the Republic of South Africa.

1.1 Objectives of the EMP

In terms of MPRDA when an organ of state wishes to obtain a mining permit that organ of state must submit an environmental management plan together with the supporting documents to the competent authority.

In terms of this act, it is clearly stated what should be the contents of the EMP.

This EMP serves to comply with requirements of the said act. It also seeks to identify all possible environmental impact, and to come-up with measures to address and mitigate such impacts.

It is also intended to assist the competent authority to issue a well informed decision.

1.2 Scope of this EMP

This EMP is limited only to property described under property description below. The area to be mined does not exceed 1,5ha. The EMP will address the current situation together future situation. See appendix 3 an attached layout plan.

1.3 Approach to the EMP

In terms of PMRDA of 2002 the applicant for a mining permit must submit an EMP to the Regional Manager responsible. The act stipulates that the EMP must contain the following contents:

- Locality map
- Contact details
- Description of project and project area:

What kind of mining that will take place: e.g.: sand, gravel, stone, Sabunga etc. describe the surrounding area, land uses etc.

Describe the social and natural environment: vegetation, geology; topography; soil.

- Identity possible impact to the environment:

- Air quality
- Noise management
- Water management
- Disposal of waste material
- Soil management
- Erosion control
- Management of sanitation

- Mine development plans: phasing of mining, location of mine facilities, looking at areas to stockpile overburden and topsoil; storm water management structures.
- Mining method: the machinery that will be used.
- Rehabilitation plan: how the applicant intends on rehabilitating the area, whilst mining.
- Closure objectives: how the applicant intends to close the mine, what activities will take place, and how the area will look like after cessation of mining activities.
- Monitoring programme:
- Financial guarantee: to rehabilitate the area once mining activities end.
- Record of public participation: consultation with the public to inform them of the mining application, and the outcomes of the meeting.
- Letter of understanding: letter from the applicant stating that they will adhere to the contents of the EMP.

This EMP has fulfilled these requirements as best as possible with the information and data available at the time of its compilation.

1.4 Legal Framework

The mining will serve the purpose of supplying construction material to the East London area and its surroundings. This EMP seeks to ensure compliance with the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002). This Act regulates mining activities.

The EMP also took cognisance of the following legislations:

- The **Constitution of South Africa**: it states that every citizen has the right to the environment that it not harmful to their health.
- **National Environmental Management Act, 1998 (Act 107 of 1998)** as amended. This is a framework Act dealing with environmental management and protection. It inflicts a duty of care on every citizen whose activities likely to result to the degradation of the environment, to put in place measure to rectify such degradation.
- **National Water Act (Act 36 of 1998)**: this Act deals with pollution control as it impacts upon surface and ground water. The Act imposes duty of care to persons conducting activities with likely wood of causing pollution to, come with measure to restrict the amount of pollution contaminating water resources.

1.5 Need and Desirability

South Africa is currently under developmental state and therefore there is a huge pressure for building and construction material. Gravel / sabunga is one of those in demand by construction industry.

Also to rectify the error of the past (illegal mining in that area), it is important to have a legal operation.

CHAPTER TWO: DESCRIPTION OF THE PROJECT

2.1 Details of the applicant

Name of the Company:	Power Rush Trading 193 cc
Contact Person:	Zoleka Ntsaluba
Registration Number:	2004/075866/23
Postal Address:	P. O. Box 880, Gonubie, East London 5258
Physical Address:	Melody Farm, N22 Mooiplaas, East London
Telephone Number	043 738 5568
Cell phone Number:	083 300 5587

2.2 PROPERTY DESCRIPTION

Physical Address:	The site applied is Erf 114, Resten East London.
Area to Mined:	The area to be mined is 0.97 hactors.

The area is currently zoned as agriculture; it used to be a chicken farm. The chicken farm is no longer in operation and the building was demolished.

2.3 PROJECT DESCRIPTION

2.3.1 Type of Mining

The type of mineral to be mined is Gravel / Sabunga. The mining will be an open-cast type. On the Northern side in about 15 meters from the mining area there is an old, demolished chicken farm building. From the Eastern in about 5 meters from the mining area there is a tarred road which allows access to the residents of Resten Township. From the Western side in about 300 meter there is waste water treatment works facility.

2.3.2 Life Span of the Mine

Considering the type of application submitted to the Department of Mineral Resources which is the mining permit. This operation will last for the period of two years.

2.3.3 Describe the Social and Natural Environment

There is a Resten community not very far from the mining area. This community is not benefiting anything from the current mining operation. There are individuals benefiting from an illegal mining activity that occurs in the area in question.

This mining activity can impact badly on the road used by Resten community to access the residences. The miners are currently mining towards this road; in the near future this can destabilize the road. During the site inspection illegal disposal of different type of waste was observed. There were no signs of cultural or heritage important site noticeable on the site in question.

Natural Environment of the site in question has been disturbed drastically by the current operation. There is no natural vegetation occurring on site. The site has a thick top soil layer.

Just below the top soil there are gravel deposits. A yellow sand stone rock is available from the site, a more weathered rock which results to fine gravel and a semi-weathered rock. The area is quit sloppy and can be classified as 1:3 slope.

CHAPTER THREE: ENVIRONMENT ASSESSMENT AND MANAGEMENT

3.1 General Environment

Generally the environment has been disturbed by human activity. There is natural vegetation on the site in question. There is alien vegetation starting to invade the area. This invasion is believed to be caused by disturbance of ground by previous activities.

3.2 Air quality

The expected air pollution can be that emitted by engine exhausts from machinery and vehicles. The dust pollution is also anticipated to occur from the movement of vehicles. The dust from vehicles will not be that visible because of short distance of gravelled road except on windy days.

Mitigation:

The vehicles and machinery to be used on site must be well serviced to avoid non acceptable emissions. The sprinkler water must be used to mitigate dust pollution more especially during windy days.

Both these impacts cannot be of significance with these mitigation measures in place.

3.3 Noise

There will be no blasting or crushing on site, therefore the only noise will be from the vehicles. It is clear then that there would not be unaccepted noise. The site is not close to community.

Mitigation

All operation must be done during normal working hours and no operations to be allowed on Sundays

3.4 Water Management

This operation will not require use of water; water will be used only for dust suppression during windy days. The possible impact can be soil erosion when water is sprayed on the surface.

Ground water contamination can be experience through leaking vehicles or machinery. Mechanical activities on site can lead to contamination of water.

Surface water there is a stream down the proposed mining area. This currently affected by the operations on site. The stream is at about 200 meters from the mining area.

Mitigation

The surface must not be too wet when sprayed by water. No leaking vehicles or machinery to be allowed on site, all vehicles must be road worthy approved. Broken vehicles and machinery must be towed of site therefore no mechanical activities to be allowed on site.

3.5 Disposal of waste Material

The mining operation will not be producing any kind of waste material. One waste bin will be provided for use by employees.

Arrangements will be done with the municipality for the disposal of this domestic waste as the Municipality services the Resten community.

3.6 Soil Management

The top soil will be removed from the mining area and stock piled on a flat area to be identified on site. The rocks that are large to be used for gravel purpose will be packed around the top soil stock piles to prevent erosion.

Both top soil and rocks will be used during rehabilitation of the mining area.

3.7 Erosion Control

The mining area starts from the bottom of the slope and moves up the slope. This approach makes it easy to control erosion. The storm water management trench will be constructed on top of the slope; therefore storm water will be diverted before entering the mining area.

3.8 Sanitation Control

Ablution facilities will be provided on site the employee. This will be done through the use of chemical toilets. The effluent will be disposed of at the nearby waste water treatment works.

PHOTOGRAPHS

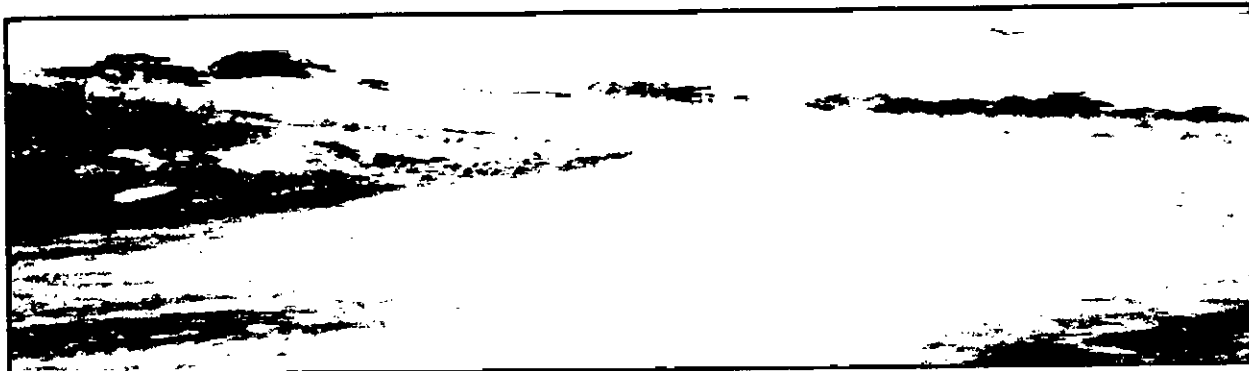


Photo 1



Photo 2

Photos 1 and 2: These show the existing access to the mining area. There is a short gravelled road to be used in this mining area

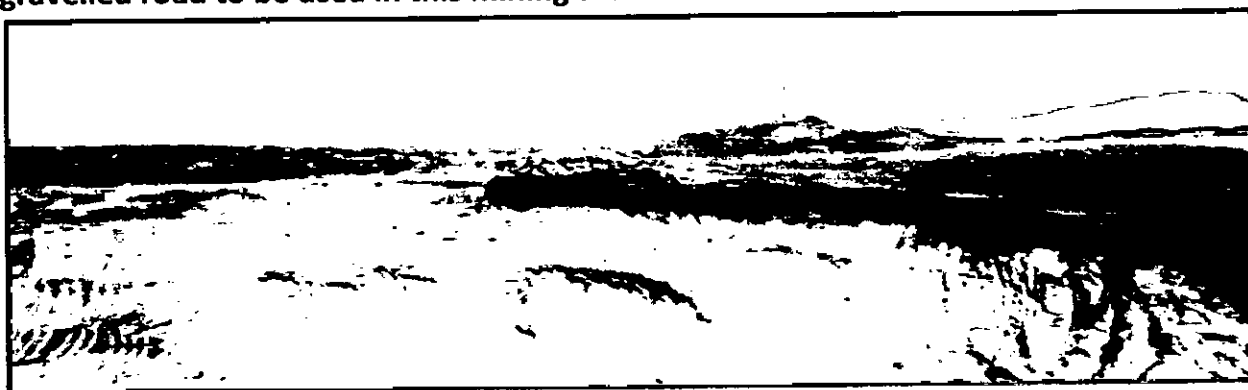


Photo 3

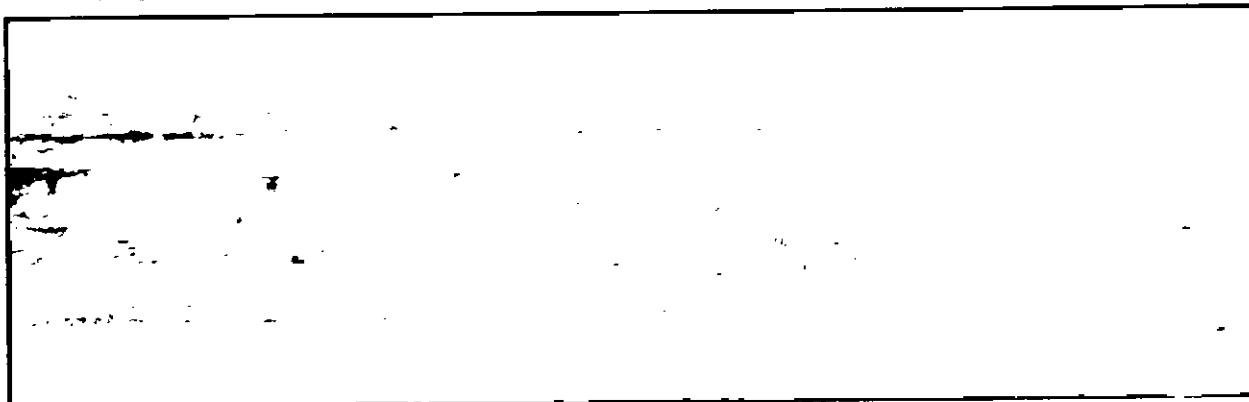


Photo 4

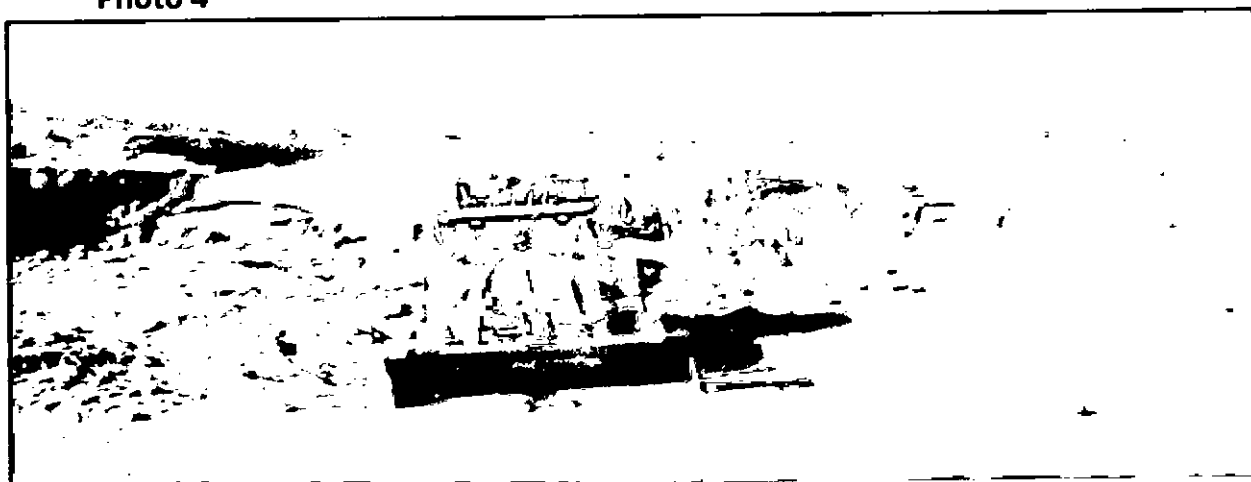


Photo 5

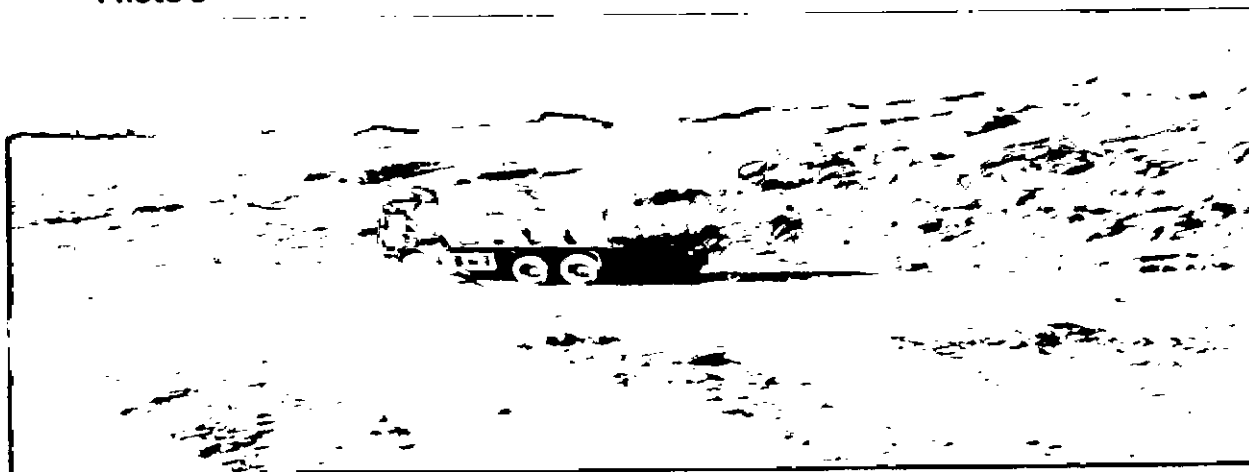


Photo 6

Photos 3,4,5 and 6: these are showing an illegal mining area.



Photo 7



Photo 8

Photo 7 and 8 shows rocks stock piles that will be used during rehabilitation of the mining area.



Photo 9



Photo 10

Photo 10 illustrates the illegal dumping occurring on site. If this site is not managed this will continue and eventually result to a significant impact to the area.



Table 1 Significance of the impacts

Impact	duration	probability	Level of impact without mitigation	Level of impact with mitigation	Overall level
Dust pollution	Short term	Likely	Significant	Insignificant	Insignificant
Contamination of water resources	Short term	Likely	Less significant	insignificant	Insignificant
Disruption of environment	Permanent	Likely	Significant	Less significant	Less significant
Alien infestation	Permanent	Likely	Significant	Insignificant	Insignificant
Erosion of soil	Permanent	Likely	Significant	Insignificant	Insignificant

When looking at the table above it can be concluded that this activity will not have significant impacts to the environment with mitigation measures adhered to.

CHAPTER FOUR: MINING DEVELOPMENT PLANS

4.1 Mining Operation

The mining operation will commence from the eastern side of the site and move away from the road. The currently existing mining excavated as far as 2,5 meters deep down. The plan now is to have berms as the face of the mine. The first berm will be 2meters dawn from the exist, the second will be 1,5 meters, then the third will 1 meter then eventually 0,5 meter. This plan will make it easy for rehabilitation.

This site will have a controlled access in order to avoid illegal activities to continue. There is no machinery to be kept on site. Stock piles have been addressed already under soil management.

The storm water structures will not be lined. The contractor will only excavate a trench as discussed above under water management.

4.2 Mining Methodology

4.2.1 Proposed Alternative

The mine will be an open cast type and the front-end loader will be used for the mining operation. The material will be then loaded on tipper trucks and delivered to the end user.

4.2.2 Other Mining Alternative Method Examined

The “no-go” option was examined and it was determined that this option will not make any justice to that environment. The area is currently under degradation through illegal activity. If therefore a “no-go” option stands, an illegal operation will continue destroying the environment.

CHAPTER FIVE: CLOSURE AND REHABILITATION PLAN

5.1 Closure

The closure objectives for the site are as follows:

To fulfil “principles of mine closure” Regulation 56; first principle which state that the closure of the mining operation is a process that must start at the commencement of mining and continue throughout the life of the operation.

- For the stockpiling areas to return to their pre-project state.

The closure will look at finalizing rehabilitation and ensure that everything went according to plans. After three months of closure the mining area will be covered by grass.

5.2 Rehabilitation Plan

The rehabilitation must commence by cleaning and preparing of the area previously mined. The rocks and topsoil stock piles will be used for rehabilitation. Cultivation of grass will follow on areas already back filled. An Environmental Control Officer (ECO) will be appointed to give guidance during rehabilitation operation

The rehabilitation will also ensure that management and control of alien invasive plants is in place. These are opportunistic types of plants that usually invade disturbed grounds.

During rehabilitation the following are plans:

Stockpiling area

- All material must be removed from the stockpiling area. (no residual material to left)
- The area must be kept clear of alien until indigenous vegetation fully establish.

Access road

- The access road will be ripped and seeded and all internal roads will follow the suit.

Excavation

- This area will be rehabilitated using the stockpiled materials.

CHAPTER SIX: MONITORING PROGRAMME

The monitoring programme must ensure that the mining operation is carried out as planned. It must monitor the progress on rehabilitation and ensure compliance with mitigation measures. An environmental control officer to be appointed must also undertake monitoring of compliance with this EMP.

The monitoring programme must also serve to increase environmental awareness. This can be achieved through involvement of all employees monitoring is conducted. The Environmental control officer will conduct monthly checks and report to the mine owner.

Following are some of the questions that should be asked when conducting monitoring session:

Topsoil handling

- Has the topsoil been removed prior the mining operation?
- Is the topsoil berm showing signs erosion?
- Has the topsoil been stock piled in an area identified by the ECO?

Road safety

- Are the dust levels significantly low to allow clear visibility?
- Are the speed limits adhered to by the truck operators?
- Are the truck integrities checked at various points for oil leaks and spillage?
- Are all vehicles / trucks licensed and road worthy?

Rehabilitation

- Have areas been identified for rehabilitation?
- Has rehabilitation started on identified areas?
- Does the rehabilitation comply with the plans?

APPENDIX 1: FINANCIAL GUARANTEE

It is guaranteed that an amount of R18,000 is available. Please see attached bank statement.

APPENDIX 2: LETTER OF UNDERSTADING

The letter of understanding is attached.

H. UNDERTAKING

I, ZOLEKA NTSALUBA the
undersigned and duly authorized thereto by POWER RUSH TRADING
19.3
Close Corporation 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 at East London this 14 day of 04 2010

Mbaluba
Signature of applicant

Member
Designation

Agency declaration: This document was completed by the applicant as it is a standard
format

J. APPROVAL

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:.....

Herman Cornelissen, 03/9/3 9:19 AM

Deleted: -

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
Private Bag X 59
PRETORIA
0001

Tel : 012 317 9288
Fax: 012 320 6786
E-mail: dorothy@mepta.pwv.gov.za

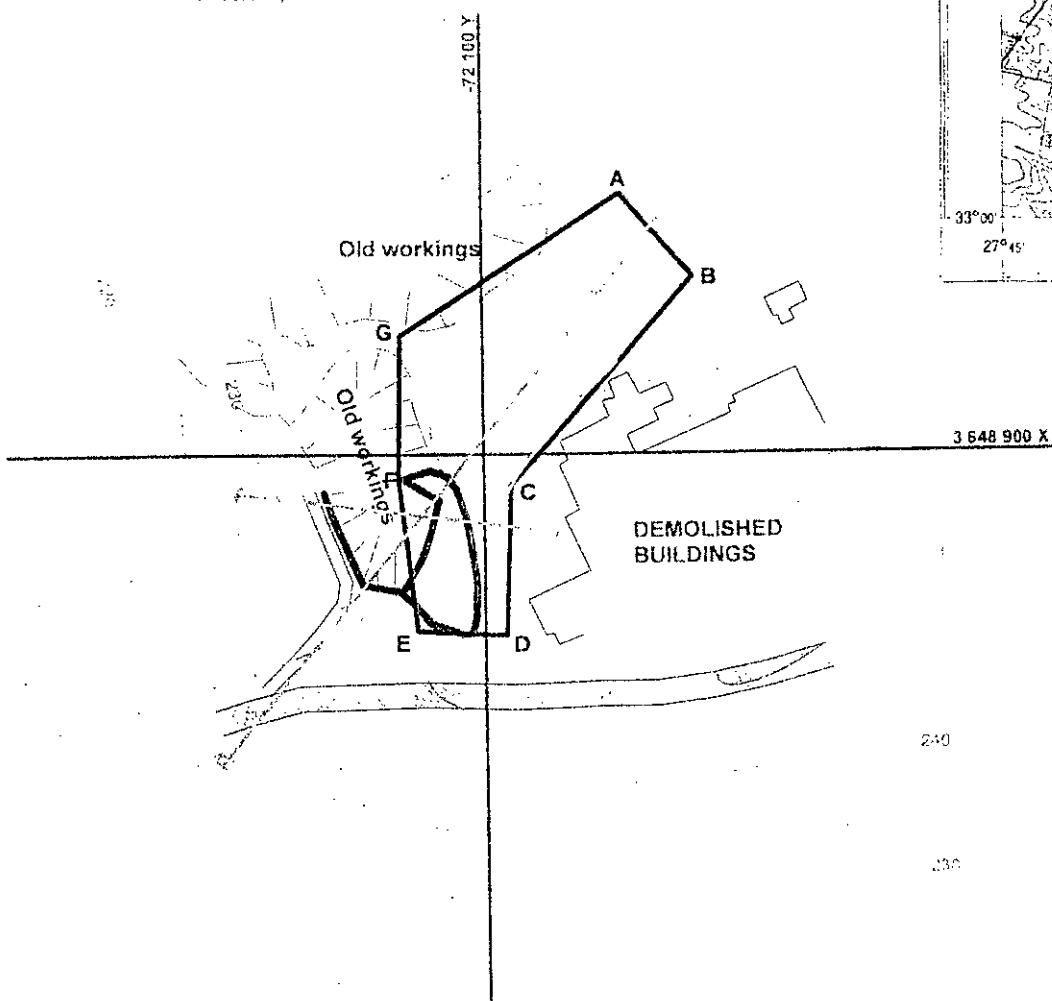
APPENDIX 3: LAYOUT PLAN

See attached layout plan.

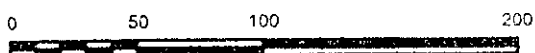
CO-ORDINATE SYSTEM WGS 84
EAST 29°

A	Y-72 154,5	X 3 648 798,3
B	Y-72 183,5	X 3 648 830,8
C	Y-72 110,9	X 3 648 912,2
D	Y-72 108,7	X 3 648 971,7
E	Y-72 073,3	X 3 648 969,8
F	Y-72 066,4	X 3 648 910,2
G	Y-72 067,6	X 3 648 853,7

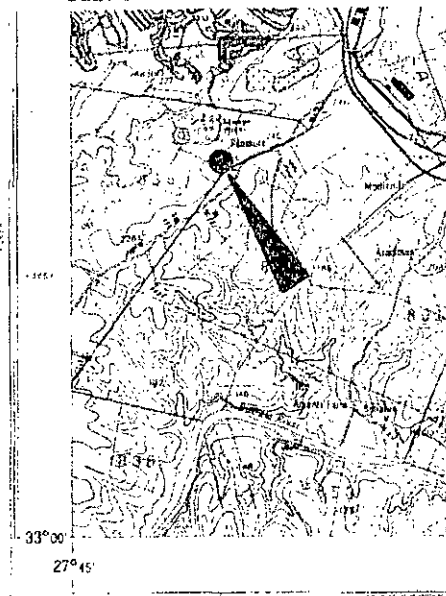
AREA 0,97 HA



SCALE 1:3 000



3227 DD CAMBRIDGE



SURVEYOR

DATE

APPLICANT

DATE

JOHN VICTOR SURVEYS
PORT ELIZABETH
TEL/FAX (041) 5813044

OFFICE USE

REGIONAL MANAGER
EASTERN CAPE

DATE

The above figure lettered A,B,C,D, E, F,G represents an area of land, in extent 0,97 Ha, situated on East London Town Lands (Ptn. of 1404) district of East London, Eastern Cape Region, in respect of which a mining permit has been issued to

ID No