

Appendix E: Comments and responses report

No comments have been received during or after the prescribed public participation process.

Appendix F: Environmental Management Programme (EMPr)

DRAFT ENVIRONMENTAL MANAGEMENT PROGRAMME

PROPOSED DEVELOPMENT OF A PORTION OF PORTION 6
WATERVAL 303 JQ
(WESTERN LIMB DISTRIBUTION CENTRE)

RUSTENBURG LOCAL MUNICIPALITY

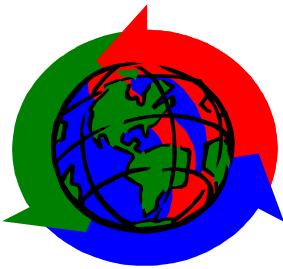
NORTH WEST PROVINCE

Submitted by:

ENVIROVISION CONSULTING CC

CK 2003/050777/23

ENVIRONMENTAL SPECIALISTS



450 WENDY STREET, WATERKLOOF GLEN, PRETORIA, 0181

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Submitted to:

1. Mr Livhuwani Kutame
North West Department of Economic Development, Environment, Conservation & Tourism
80 Church Street
RUSTENBURG
0300

Departmental Reference: NWP/EIA/18/2013

2. Interested & Affected Parties

On behalf of:

Anglo American Platinum (Pty) Ltd

Submitted on:

13 August 2013

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1. INTRODUCTION

1.1 Background

Anglo American Platinum (Pty) Ltd intends to obtain environmental authorisation for the development of a portion of Portion 6 Waterval 303 JQ, Rustenburg, North West Province for purposes of establishing warehousing, distribution and supply chain facilities, hazardous goods storage facilities as well as related railway infrastructure. The total proposed activity footprint is approximately eight hectares.

The proposed development implies the transformation of undeveloped, vacant or derelict land to residential, retail, commercial, recreational, industrial or institutional use, outside an urban area and where the total area to be transformed is bigger than 1 hectare and smaller than 20 hectares. It also implies the construction of facilities or infrastructure for the storage and handling dangerous goods in containers with a combined capacity of 340 cubic meters as well as the expansion of a railway line and new siding outside the reserve of an existing railway line.

The above referred to activities are listed under Sections 23ii, 13 and 53 of Government Regulation No. R.544 of 18 June 2010. In terms of Government Regulation No. R. 543 of 18 June 2010, a basic assessment must be conducted for these activities.

As part of the Basic Assessment Report to be compiled and submitted in terms of the above referred to regulations, an Environmental Management Programme (EMPr) is being required.

Apart from being one of the requirements of the prescribed Basic Assessment Report, an EMPr is a vital tool in ensuring that the environmental controls identified by an EIA are properly understood, clearly formulated and included in the construction specifications, and that its application can be monitored and that corrective action can be undertaken when necessary.

1.2 Terms of Reference

The purpose of an EMPr is defined in the Integrated Environmental Management (IEM) Guideline Series (Department of Environmental Affairs, 1992) as: "A plan that organises and co-ordinates mitigation, rehabilitation and monitoring measures in order to guide the implementation of the proposal".

The objectives of this EMPr are thus to:

- Prescribe the practicable control methods to abate the environmental impacts associated with the construction of the residential structures;
- Monitor and audit the performance of construction personnel in applying such controls.

2. ENVIRONMENTAL POLICY AND LEGISLATION

2.1 Environmental Policy Statement

The policy statement that follows is formulated specifically to support the construction phase EMPr for the proposed construction of residential structures on the portions to be subdivided. All construction personnel shall be required to commit themselves to the following policy:

- Adherence to the requirements of the construction EMPr for the proposed subdivision and residential structures;
- Management of all construction and associated activities so as to minimise the risk of pollution of ground and surface water , the air and the soil;
- Management of all construction and associated activities so as to minimise the nuisance and disruption to humans working or residing in, or commuting through the area;
- Adherence to the environmental legislation relevant to the location and nature of the work being conducted; and
- Compliance with the monitoring and auditing programmes contained in the EMP, to ensure its accountable and transparent implementation.

2.2 Relevant Environmental Legislation

Cognisance shall be taken of, but will not be limited to the following legislation during the construction phase of the proposed residential development:

- Atmospheric Pollution Prevention Act (Act 45 of 1965)
- Environment Conservation Act (Act 73 of 1989)
- Hazardous Substance Act (Act 15 of 1973)
- Health Act (Act 63 of 1977)
- National Environmental Management Act (Act 107 of 1998)
- National Heritage Resources Act (Act 25 of 1999)
- National Water Act (Act 36 of 1998)
- Occupational Health and Safety Act (Act 85 of 1993)

3. RESPONSIBILITY LINKAGES

Essentially, the responsibility for the application of the construction phase or the proposed development begins with the applicant / his appointed contractors, who shall nominate a project manager to assume this task within his or her portfolio. In practice, on site responsibility would typically lie with an engineer who would also assume the role of project manager.

With the Project Manager (PM) and Environmental Control Officer (ECO) roles being particularly important, these are now described in more detail.

3.1 Role of the Project Manager (PM)

The PM is responsible for ensuring that on-site activities are undertaken in accordance with the requirements of the EMP. The project manager shall thus need to ensure that:

- Environmental requirements are adequately covered in tender and contract documents;
- Appropriate corrective action is identified if non-compliance occur or unforeseen environmental issues arise that require environmental management action;
- Corrective action is implemented as required;
- Appropriate records and information regarding compliance with the EMPr requirements are maintained and made available to the ECO;
- All site instructions are copied to the ECO;
- Instructions as required by the ECO are issued to the relevant contractor.

3.2 Role of the Environmental Control Officer (ECO)

The Environmental Control Officer (ECO) is responsible for ensuring that the requirements of the EMPr are implemented. Whereas the Project Manager (PM) has overall responsibility for the construction site, the ECO's focus is on the environmental aspect of the construction phase. The ECO shall thus:

- Undertake ongoing monitoring of the construction site and activities through regular site inspection;
- Record important findings of the site inspection;
- Advise the PM on environmental matters during construction;
- Monitor the implementation of specific elements of the EMPr by contractors;
- Receive and review all site instructions issued by the PM,
- Advise the PM on action or issues impacting on the environment, provide appropriate recommendation to address these and confirm the issuing of subsequent site instructions;
- Ensure that contractors have copies of the EMP;
- Act as intermediary between the applicant and directly affected parties.

4. DESCRIPTION OF THE PROPOSED DEVELOPMENT

4.1 Local Context

The proposed activity is proposed to take place on a portion of Portion 6 Waterval 303 JQ, Rustenburg Local Municipality, North West Province. The subject property is approximately 8 hectares in extent and is situated on the north of Bleskop Mine.

The proposed development falls within the Rustenburg Local Municipality.

4.2 Construction Phase

It is required from the Contractor to submit a properly detailed construction programme, clearly showing the critical path of the construction operation. The construction of the works will not commence until such a construction programme is approved by the PM. The Contractor will be required to update this programme if any of the programmed operations falls two weeks behind programme or if ordered to do so by the PM.

It is anticipated that the construction of services and structures will commence during 2014 and will continue for a period that should not exceed three years.

- Sanitary Facilities

Sanitary facilities are not available on the site and it will be required from the Contractor to supply such. All toilets shall conform to the requirements of the Local Authority and the location on the site shall be approved by the PM.

- Source of water

A water tanker must be used as a temporary measure if municipal water connections cannot be secured up front.

- Source of electricity

Electricity connections need to be arranged with the local authority.

- Road Access

Road access is obtained from an existing tarred road.

It is a requirement of the project that the Contractor allows for the subcontracting of labour-based work. Rates for labour-based excavation, bedding and back-filling of pipe trenches, shall be obtained from local contractors before commencement of the work. Training must be provided to local labourers to assist in the construction of houses. Locally sourced employment is a vital component in this regard. One controlling entity that monitors and records all “unskilled / non-contracted” labour is vital. The developer must sign on as accepting this condition.

5. ENVIRONMENTAL CONTROLS

5.1 General Controls

This section contains generic procedures that need to be adhered to regarding all construction activities.

5.1.1 Location of the Contractor’s Camp

The Contractor’s camp is defined as the demarcated area where the Contractor will establish offices, living quarters and storage facilities and forms a discrete part of the construction site.

In choosing a site for the camp, the following factors have to be adhered to:

- Choose as level an area as possible;
- Avoid watercourses;
- If possible, the camp must be located within the construction area;
- An already disturbed area must be used, and

- Lighting must not be imposing.

The construction camp and site should only have one access route, if possible, and where possible, existing roads and tracks should be used. Access road(s) must be upgraded to cope with heavy construction machinery and vehicles, and must be maintained in an adequate condition so as to minimise dust and erosion.

The Project Manager must recommend and approve the location of the camp prior to its establishment.

5.1.2 Site clearing

Indigenous large trees (i.e. 200 mm trunk diameter) and shrubs are to be retained where applicable and possible during construction activities. Clearing of natural vegetation must be restricted, particularly on areas prone to erosion.

Woods and invader plants that are declared such in terms of the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983) must be controlled as specified in the Act.

Removal of existing vegetation must be done in a staged manner so as to minimise the duration of its exposure to erosion by wind and rain.

Soil should be stripped in a phased manner in order to retain vegetation cover for as long as possible. The topsoil layer (the top 200mm seedbank material) must be stripped first and stockpiled separately for rehabilitation purposes. This material will be stored in stockpiles not more than 2 metres high in order to maximise the viability of seed and soil organisms present in the material.

A suitable site for soil stockpiling must be identified. The site must be:

- Removed from the working area;
- In a sheltered position so that soil will not be exposed to the effects of erosion;
- Removed from drainage lines to minimise the risk of being washed away;
- Removed from areas of indigenous vegetation; and
- Removed from the base of a bank so that run-off from the bank does not cause ponding of water along the stockpile.

Firebreaks should be established in terms of the requirements and conditions of the National Veld and Forest Fires Act, 1998 (Act No. 101 of 1998).

Erosion must be controlled as specified in the Conservation of Agricultural Resources Act 1983 (Act No. 43 of 1983) and as specified in this document.

5.1.3 Archeology

Certain measures are proposed in the event of material of archaeological value being uncovered on site.

When any material of archaeological or cultural significance is uncovered during the development / construction phase , the PM must immediately notify the ECO who, in turn, will notify the relevant SAHRA Office for directives.

In the event of uncovering any material of archaeological or cultural significance, all further construction work must be stopped until an Archaeologist had investigated the material and has given approval for the work to be continued.

No archaeological material may be removed from the site without prior approval from the Archaeologist.

5.1.4 Dust control

Dust control measures, such as watering of work areas, must be implemented to reduce dust arising from construction activities.

Vehicle speeds must not exceed 40 km/h on demarcated construction roads on the site or 20 km/h when traversing unconsolidated areas.

5.1.5 Noise control

The Contractor must inform adjacent residents of any unusually noisy activities that will be undertaken during the construction phase.

Contractors shall comply with local by-laws with regard to working hours and should also restrict working hours for construction activities to:

- 06:30 -18:30 on weekdays;
- 07:00 -17:00 on Saturdays, and
- Operation being prohibited on Sundays and public holidays.

If Contractors wish to work outside of these hours, it must be with the agreement of the PM AND ECO. Given the general nature of the construction phase, which will mostly entail the building of residential units, the noise disturbance is not seen as inimical to the project. The ECO is however to be fully informed of any complaints received regarding noise levels during the construction period.

Activities such as blasting and piling shall only be undertaken with the necessary controls in place, as stipulated by the local Noise Control Regulations.

5.1.6 Waste management

The contractor must provide litter-bins during the construction phase for the disposal of litter and waste material.

The contractor shall ensure that employees deposit all refuse in bins, and these shall be emptied on a regular basis to prevent overflowing. Refuse bins shall be watertight, wind-proof and scavenger-proof and shall be placed at regular intervals throughout the site.

The contractor shall provide workers to clean up the site on a regular basis and the general cleanliness of the site shall form part of the contractor's responsibility.

All waste material generated during the construction phase, including construction rubble and waste concrete, must be removed from the site and disposed of at an approved Municipal Waste Disposal site.

No waste material shall be disposed of at an informal waste disposal site in the adjacent open space or elsewhere.

5.1.7 Fuel and hazardous material storage

The contractor shall identify fuels and hazardous substances to be stored on site and shall ensure that he knows the effect of these substances on his staff and the environment. The contractor shall supply a copy of the fuels and hazardous substance inventory to the PM AND ECO.

The contractor shall ensure that the quantities of fuel and chemicals on site are appropriate to the requirements and are stored and handled so as to avoid the risk of spillage.

All fuels, oils and chemical shall be confined to specific and secured areas. These materials shall be stored in area with a concrete or other impervious base, which is adequately bunded. The volume of the bund shall be two times the volume of the container stored. Gas and fuel should not be stored in the same storage area, and any generator used on the site should be placed on a bunded surface.

Any tank used regularly for re-fuelling vehicles shall be located within a bund, which has a concrete base and brick walls. The fuel dispenser shall be suspended within the bunded area while not in use.

Polluted storm-water run-off from the concreted storage areas shall be collected, stored and disposed of at an approved waste site. Contaminated soil shall also be removed, stored in a skip and disposed of at an approved waste disposal site.

5.1.8 Equipment and machinery

Contactors shall position any equipment that may leak on watertight drip trays to contain any pollutants.

The drip trays shall be of such a size that equipment can be positioned within its perimeter.

Drip trays shall be cleaned regularly and shall not be allowed to overflow.

Materials collected in these drip trays shall be collected and disposed of off-site at an approved waste disposal site.

5.1.9 Demarcation of eating areas

Eating areas shall be restricted to the site offices and Contractor's camp. If employees are to eat elsewhere on site, the Contractor shall, in consultation with the PM or ECO, designate places for eating in the working areas. The contractor shall provide adequate water for washing, toilets and refuse bins at all places and shall keep the eating are clean at all times.

5.1.10 Sanitation

The contractor must provide removable chemical toilet facilities on site during the construction phase, at a ratio of one toilet for every fifteen employees.

5.1.11 Storm-water control

The contractor shall take reasonable measures to prevent erosion resulting from a diversion, restriction or increase in the flow of storm- water caused the presence of his works, operation and activities, all to the satisfaction of the PM and ECO.

Any storm-water collected in bunded areas containing oils, fuels, chemicals or other potentially polluting substances shall be pumped out of the bund, collected in a suitable container and removed from the site for appropriate disposal at an approved Municipal Waste Disposal Site.

Berms or storm-water drainage systems shall be used to prevent surface runoff from entering site excavation.

Control measures to prevent storm-water damage and erosion during construction shall include the control by sump, as well as storm-water being directed into attention ponds wherever possible. All methods of storm-water control during the construction phase are to be agreed to and approved by the PM and ECO.

5.1.12 Provision of water

Contractors shall be responsible for providing construction water, water required for dust control, drinking and washing water.

Contractors shall be responsible for providing washing facilities for all staff.

Waste water from washing facilities shall be discharged into the existing sewage system, or removed from the site by the Contractor by other means, should existing services be unavailable. Such alternative means shall be submitted to the PM and ECO for approval.

5.1.13 Electrical power

The proponent shall not supply electrical power for the Works and Contractors shall make their own arrangements for electrical power requirements.

5.1.14 Cleanliness of the public roads

Contractors shall ensure that construction vehicles are not overloaded, and as a result do not spill construction or excavation material onto public roads.

Contractors shall provide a washing system for cleaning the wheels of vehicles moving off-site and shall ensure that this is utilised as required.

5.1.15 Traffic control and safety

Traffic control and safety (if and where necessary) shall be done in accordance with the South African Traffic Safety Manual, with the relevant signs, flagmen, barriers, etc. being provided where required.

Traffic control shall be done in co-operation with local traffic officials.

All laws and regulation applicable on the public road system are enforceable on the construction site.

5.1.16 Lighting

General area lighting must be marked on an overall site plan.

Each Contractor is responsible for providing additional lighting so as to comply with the Occupational Health and Safety Act (Act 85 of 1993) as amended.

5.1.17 Safety on site

Contractors shall follow the guidelines of the Occupational Health and Safety Act (Act 85 of 1993). These include:

The wearing of hard hats by:

- all persons entering the site;
- all person within 10 m of any situation where any form of lifting or hoisting equipment is being used ; and
- any person working in any other situation where the possibility of head injury is present, e.g. an area where overhead work is taking place.

The wearing of gloves by personnel:

- handling heavy materials;
- carrying out maintenance activities within a crusher;
- engaged in welding or gas cutting activities ; and
- handling material/ equipment with unfinished steel edges.

The wearing of approved safety shoes or safety boots by:

- all person entering the construction site or workshop, storage and depot areas.

The wearing of safety goggles by:

- person operating equipment under dusty condition;
- person engaged in cutting or welding activities; and
- person engaged in grinding activities.

The wearing of hearing protection by:

- all person engaged in rock drilling activities (>85 decibel);
- all crushing operators; and
- any person entering into high noise areas (>85 decibel).

These areas shall be appropriately marked using a standard National Occupational Safety Association (NOSA) pictogram.

The wearing of safety belts by:

- any person carrying out work 2 m above ground level, unless it is being carried out from a safe and protected work platform; and
- all heavy equipment operators.

5.2 Site-Specific Controls

5.2.1 Employment

A local employment policy as well as equitable distribution of jobs and gender sensitivity must be emphasised.

5.2.2 Security

Contractors shall be responsible for the security of their personnel, construction camps equipment.

No personnel shall be permitted to live on the site and security personnel present after hours must be provided with the necessary cooking, heating and ablution facilities.

Security lighting should not result in a nuisance for neighbouring properties.

5.2.3 Safety

Strict safety measures must be employed around open trenches and excavations.

5.2.4 Traffic

Access roads and routes on the site during construction shall be demarcated. Contractors must ensure that their vehicles are road-worthy and that loads are properly secured.

The extent of road side disruption on the access route must be minimised where possible.

5.2.5 Archaeology

In the event of terrestrial artefacts being discovered, it shall be reported to the PM, ECO and SAHRA immediately. Work in that area shall then also be stopped until such time as the necessary assessment has been undertaken and the required authorisation to continue has been received from SAHRA.

5.2.6 Wind impact

During the construction phase, the issue of wind-borne dust from exposed substrate is important and contingencies in the form of water tankers to wet affected areas, must be considered. Work areas will be sprayed with water when required to suppress dust.

5.2.7 Noise impact

Construction work is only permitted during prescribed times and particular activities such as blasting and piling shall only be undertaken with the necessary controls in place, as stipulated by the local Noise Control regulations. Neighbouring establishments will be warned prior to blasting.

5.2.8 Explosives

Where blasting is resorted to, it shall be carried out strictly according to the Explosives Act and regulation of 1956 (Act No. 26 of 1956, as amended).

In no case will blasting be allowed if a reasonable possibility exists of injury to any foundation, wall, pipe, cable or any structure, complete or partly complete.

Wherever blasting is permitted and resorted to, it shall only be executed under the cover of heavy wire mesh screens or rubber matting of adequate weight and area to prevent the blasted material from being ejected from the trench.

5.2.9 Pollution / waste disposal

The contractor must provide waste bins on site for the duration of the development phase and waste material, including builders' rubble, will be removed on a regular basis to a proclaimed waste disposal site.

The ECO in liaison with the PM, must draw up a waste disposal management plan for the duration of the development phase, in order to comply with relevant legislation pertaining to waste disposal.

Tests must be conducted to determine the extent of surface water and / or ground water contamination as soon as spillage of fuel occurs. Appropriate remediation must be followed. Contaminated soil must be collected and disposed of at an officially approved waste disposal site. Proof of the disposal of contaminated soil must be submitted to the North West Department of Economic Development, Environment, Conservation and Tourism within 3 days of the disposal thereof.

5.2.10

Ablution

The contractor must provide chemical toilets for the duration of development phase.

All toilets shall conform to the requirements of the local authority and the location on the site shall be approved by the PM.

5.2.11

Storm-water control

Drainage precaution must be taken to prevent ponding of storm-water around structures.

Effective measures must be taken to minimise the flow of surface water to excavations during construction.

Effective measures must be taken to curb erosion or leaching of water from stockpiles during construction.

5.2.12

Source of water

Water may be sourced from water carrying tankers.

5.2.13

Source of electricity

The contractor must arrange with the local authority if a connection is required.

5.3

Site Rehabilitation

The contractor shall ensure that all temporary structures, equipment, materials, waste and facilities used for construction purposes are removed upon completion of the project. The site clean-up shall be to satisfaction of the PM and ECO.

Where appropriate, Contractors shall employ suitably qualified persons to rehabilitate areas damaged by construction activities within and surrounding the Contractor's camps. Contractors shall be responsible for rehabilitating areas identified by the PM and ECO, and the contractor's procedures for rehabilitation, including plans and method statements, shall be approved by the ECO and PM.

6.

EMERGENCY PROCEDURES

6.1

First Aid Procedure

Contractors shall provide and maintain a suitable first aid kit on site and shall ensure that a qualified first aid practitioner is present during working hours, in accordance with the Occupational Health and Safety Act (Act 85 of 1993).

Contractors shall ensure that their staff know and carry out the procedures for dealing with accidents and shall clearly define the emergency procedure to be followed for obtaining medical treatment and assistance in the event of serious injury.

6.2 Spills of Fuel and Hazardous Substances

Contractors keep the necessary material and equipment on site to deal with grounds spills of any hazardous material present.

Contractors shall set up a procedure for dealing with ground spills of any hazardous material which shall be approved by the PM and ECO, and shall include a provision to notify the Project Manager of any spills.

The clean-up of spill and any damage caused by a spill shall be for the relevant Contractors account.

6.3 Emergency Advisory Procedure

The contractor shall ensure that there is an emergency advisory procedure on site before commencing with any operation that may endanger the lives of any personnel on site, or caused damage to the environment.

The contractor shall ensure that all personnel are familiar with all emergency procedures to be followed. He must ensure that list of all emergency numbers and contact people are regularly updated and names are posted at relevant locations at all times.

Smoking should be permitted on the site only at the discretion of the Project Manager and the Contractor shall ensure that all personnel are aware of the fire risk and the need to extinguish cigarettes before disposal.

Wherever work involves welding, gas cutting or cutting of metal, fire fighting equipment shall be immediately available.

A member of staff must be appointed to be responsible for the installation and inspection of fire extinguishers. The Project Manager shall receive copies of the inspection report. A map must be drawn up to indicate the location of fire extinguisher and they should be clearly visible and demarcated in accordance with legislation.

7. RECORD OF AUDITING AND CORRECTIVE ACTION

Measuring the performance of those personnel responsible for implementing the environmental controls stipulated in this EMP is important to demonstrate compliance with specified controls, identify non-conformance and ensure that appropriate corrective action is taken to minimise the impact that may result from non-compliance.

7.1 Auditing

An auditing programme shall be instituted, which shall comprise:

- visual inspection of the site activities by the PM on a regular basis;

- visual inspection of the site activities by the ECO on a regular basis. Where a particular aspect requires more detailed monitoring, more frequent inspection shall be undertaken; and
- review of records and documentation to reconcile these with the construction programme.

Records shall be maintained during the construction phase to enable compliance with the EMP specification to be demonstrated. These shall typically comprise a daily log of activities that record waste management, fuel and chemicals management and other environmental issues, e.g. adverse weather, surface water run-off, etc.

7.2 Corrective Action

Issues of non-conformance noted by the ECO shall be communicated to the PM who shall be responsible for seeing that the relevant parties are informed of the non-conformance so that appropriate corrective action can be taken by them. The ECO shall advise on the appropriate corrective action, where necessary, and these shall be agreed upon collectively.

Environmental issues shall be addressed at regular site meetings between ECO and the PM. The ECO shall present a verbal report of any environmental concern or issues that have arisen and of corrective action that have been taken. Outstanding corrective action shall be discussed and agreed at these meetings. Issues relating to complaints or comments received from the public shall also be discussed at these meetings.

8. PENALTIES

Non-compliance with the conditions of this EMP, which form part of the Contract agreement, shall constitute a breach of contract. Penalties may be issued in instance of non-compliance by contractors or any employee, Sub-Contractor, etc. the penalty shall be issued to the principal contractor where applicable in the following manner:

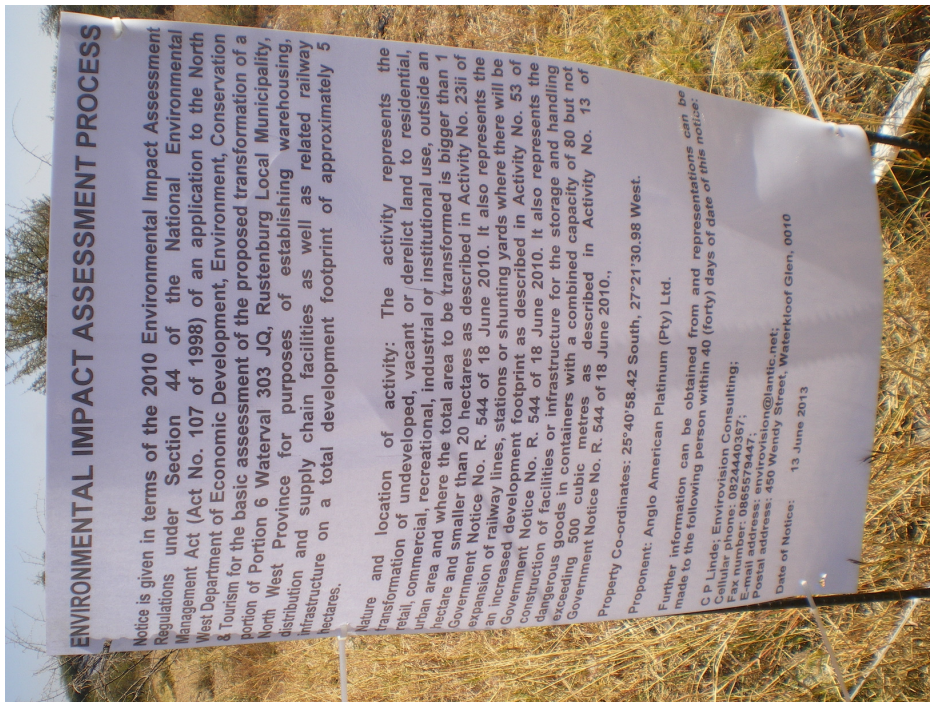
- The contractor shall be informed in writing of any infringement of the environment control measures stipulated in this EMP, and a time frame in which corrective action must be taken will be issued;
- Should corrective action not be undertaken within the given time frame, a written warning shall be issued along with a time frame in which the issue needs resolution;
- Should the warning be ignored, a penalty shall be imposed on the Contractor. The penalty amount shall be determined by the ECO in consultation with the PM. The penalty amount shall be deducted from the contractor's certificate and held in an environmental fund.



Cappie Linde – M.Env.Dev: UKN, ICB Certified Environmental Assessment Practitioner

Appendix G: Other information

Appendix G1: On-site notice



Appendix G2: Notification of neighbouring landowner, SAHRA & Water Affairs

ENVIROVISION CONSULTING CC

CK 2003/050777/23



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Duplicate

13 June 2013

Kgosi Leruo Molotlegi
The Royal Bafokeng Nation
PHOKENG

DELIVERED BY HAND

Dear Kgosi Molotlegi

WRITTEN NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED TRANSFORMATION OF A PORTION OF PORTION 6 WATERVAL 303 JQ, RUSTENBURG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

Anglo American Platinum, trading as Rustenburg Platinum Mines, intend to transform a portion of Portion 6 Waterval 303 JQ, Rustenburg Local Municipality, North West Province for purposes of establishing warehousing, distribution and supply chain facilities as well as related railway infrastructure on a total development footprint of approximately 8 hectares (kindly refer to the attached locality and layout plan).

The proposed development implies the transformation of undeveloped, vacant or derelict land to residential, retail, commercial, recreational, industrial or institutional use, outside an urban area and where the total area to be transformed is bigger than 1 hectare and smaller than 20 hectares. It also implies the construction of facilities or infrastructure for the storage and handling dangerous goods in containers with a combined capacity of 340 cubic meters as well as the expansion of a railway line and new siding outside the reserve of an existing railway line.

The above referred to activities are listed under Sections 23ii, 13 and 53 of Government Regulation No. R.544 of 18 June 2010. In terms of Government Regulation No. R. 543 of 18 June 2010, a basic assessment must be conducted for these activities.

As an adjacent landowner the Royal Bafokeng Nation is herewith being notified in terms of Section 54 of Government Regulation No. R. 543 of 18 June 2010 of the application for a basic assessment on the above referred to property.

Please do not hesitate to forward any comments with regard to the proposed development to the writer within the next 40 (forty) days.

Kind regards

Cappie Linde

MEMBER: C. P. LINDE (M.ENV.DEV.: UKN)

Linde 13/6/2013

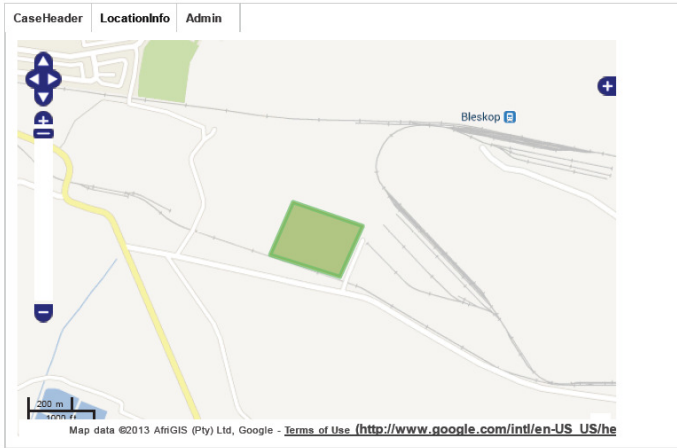
SAHRIS

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Heritage Cases *Environmental Basic Assessment for a portion of Portion 6 Waterval 303 JQ* has been updated.

Heritage Cases

Environmental Basic Assessment for a portion of Portion 6 Waterval 303 JQ



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Chat (15)

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An agency of the Department of Arts & Culture



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Cappie Linde

From: Jenna Lavin [jlavin@sahra.org.za]
Sent: Monday, July 08, 2013 3:09 PM
To: Cappie Linde
Cc: Phillip Hine
Subject: Re: THE USE OF SAHRIS IN ALL MATTERS PERTAINING TO SECTION 38 OF THE NATIONAL HERITAGE RESOURCES ACT (ACT 25 OF 1999)
Attachments: _Certification_.txt

Hi there Cappie,

I see your cases loaded onto SAHRIS under NWPHRA.

I am including the heritage officer for the NW Province on this email so that he is aware of your application. He will look at the documentation and respond to you through the messaging system on SAHRIS or via email.

Kind regards,

Jenna Lavin

Heritage Officer
Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

111 Harrington Street
PO Box 4637,
Cape Town
8000,
South Africa

E-mail: jlavin@sahra.org.za
Phone : +27 (0)21 462 4502
Fax : +27 (0)21 462 4509
Web : www.sahra.org.za

From: "Cappie Linde" <envirovision@lantic.net>
To: "Jenna Lavin" <jlavin@sahra.org.za>
Sent: Monday, 8 July, 2013 3:08:51 PM
Subject: RE: THE USE OF SAHRIS IN ALL MATTERS PERTAINING TO SECTION 38 OF THE NATIONAL HERITAGE RESOURCES ACT (ACT 25 OF 1999)

Dear Jenna

Thank you for your assistance.

What is the next step – do I wait for SAHRA's feedback?

Regards

Cappie Linde

ENVIROVISION CONSULTING CC

CK 2003/050777/23



ENVIRONMENTAL SPECIALISTS

450 WENDY STREET, WATERKLOOF GLEN, PRETORIA, 0010

E-MAIL ADDRESS: ENVIROVISION@LANTIC.NET

0824440367

0865579447

The Manager: Hartbeespoort Office
Department of Water Affairs
HARTBESPOORT

Duplicate

13 June 2013

DELIVERED BY HAND

Dear Sir / Madam

WRITTEN NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED TRANSFORMATION OF A PORTION OF PORTION 6 WATERVAL 303 JQ, RUSTENBURG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

Anglo American Platinum, trading as Rustenburg Platinum Mines, intend to transform a portion of Portion 6 Waterval 303 JQ, Rustenburg Local Municipality, North West Province for purposes of establishing warehousing, distribution and supply chain facilities as well as related railway infrastructure on a total development footprint of approximately 8 hectares (kindly refer to the attached locality and layout plan).

The proposed development implies the transformation of undeveloped, vacant or derelict land to residential, retail, commercial, recreational, industrial or institutional use, outside an urban area and where the total area to be transformed is bigger than 1 hectare and smaller than 20 hectares. It also implies the construction of facilities or infrastructure for the storage and handling dangerous goods in containers with a combined capacity of 340 cubic meters as well as the expansion of a railway line and new siding outside the reserve of an existing railway line.

The above referred to activities are listed under Sections 23ii, 13 and 53 of Government Regulation No. R.544 of 18 June 2010. In terms of Government Regulation No. R. 543 of 18 June 2010, a basic assessment must be conducted for these activities.

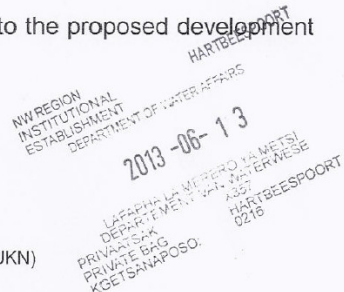
In view of the above you are herewith being notified in terms of Section 54 of Government Regulation No. R. 543 of 18 June 2010 of the application for a basic assessment on the above referred to property.

Please do not hesitate to forward any comments with regard to the proposed development to the writer within the next 40 (forty) days.

Kind regards

Cappie Linde

MEMBER: C. P. LINDE (M.ENV.DEV.: UKN)



Appendix G3: Notification of ward councillor

ENVIROVISION CONSULTING CC

CK 2003/050777/23



ENVIRONMENTAL SPECIALISTS

450 WENDY STREET, WATERKLOOF GLEN, PRETORIA, 0010

E-MAIL ADDRESS: ENVIROVISION@LANTIC.NET

0824440367

0865579447

Duplicate

13 June 2013

The relevant ward councilor
Rustenburg Local Municipality
RUSTENBURG

DELIVERED BY HAND

Dear Sir / Madam

WRITTEN NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED TRANSFORMATION OF A PORTION OF PORTION 6 WATERVAL 303 JQ, RUSTENBURG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

Anglo American Platinum, trading as Rustenburg Platinum Mines, intend to transform a portion of Portion 6 Waterval 303 JQ, Rustenburg Local Municipality, North West Province for purposes of establishing warehousing, distribution and supply chain facilities as well as related railway infrastructure on a total development footprint of approximately 8 hectares (kindly refer to the attached locality and layout plan).

The proposed development implies the transformation of undeveloped, vacant or derelict land to residential, retail, commercial, recreational, industrial or institutional use, outside an urban area and where the total area to be transformed is bigger than 1 hectare and smaller than 20 hectares. It also implies the construction of facilities or infrastructure for the storage and handling dangerous goods in containers with a combined capacity of 340 cubic meters as well as the expansion of a railway line and new siding outside the reserve of an existing railway line.

The above referred to activities are listed under Sections 23ii, 13 and 53 of Government Regulation No. R.544 of 18 June 2010. In terms of Government Regulation No. R. 543 of 18 June 2010, a basic assessment must be conducted for these activities.

In view of the above you are herewith being notified in terms of Section 54 of Government Regulation No. R. 543 of 18 June 2010 of the application for a basic assessment on the above referred to property.

Please do not hesitate to forward any comments with regard to the proposed development to the writer within the next 40 (forty) days.

Kind regards

Cappie Linde

Ward 33
Coal mine

OFFICE OF THE SPEAKER
Rustenburg Local Municipality

2013-06-13

P.O. Box 10
Rustenburg
0300

MEMBER: C. P. LINDE (M. ENV. DEV. UKN)

Appendix G4: Notification of municipality

ENVIROVISION CONSULTING CC

CK 2003/050777/23



ENVIRONMENTAL SPECIALISTS

450 WENDY STREET, WATERKLOOF GLEN, PRETORIA, 0010
E-MAIL ADDRESS: ENVIROVISION@LANTIC.NET
0824440367 0865579447

The Municipal Manager
Rustenburg Local Municipality
RUSTENBURG

Duplicate

13 June 2013

DELIVERED BY HAND

Dear Sir / Madam

WRITTEN NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED TRANSFORMATION OF A PORTION OF PORTION 6 WATERVAL 303 JQ, RUSTENBURG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

Anglo American Platinum, trading as Rustenburg Platinum Mines, intend to transform a portion of Portion 6 Waterval 303 JQ, Rustenburg Local Municipality, North West Province for purposes of establishing warehousing, distribution and supply chain facilities as well as related railway infrastructure on a total development footprint of approximately 8 hectares (kindly refer to the attached locality and layout plan).

The proposed development implies the transformation of undeveloped, vacant or derelict land to residential, retail, commercial, recreational, industrial or institutional use, outside an urban area where the total area to be transformed is bigger than 1 hectare and smaller than 20 hectares. It also implies the construction of facilities or infrastructure for the storage and handling of dangerous goods in containers with a combined capacity of 340 cubic meters, as well as the expansion of a railway line and new siding outside the reserve of an existing railway line.

The above referred to activities are listed under Sections 23ii, 13 and 53 of Government Regulation No. R.544 of 18 June 2010. In terms of Government Regulation No. R. 543 of 18 June 2010, a basic assessment must be conducted for these activities.

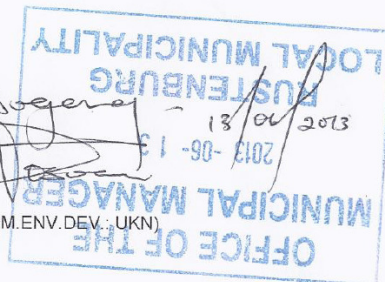
In view of the above your town planning and environmental divisions are herewith being notified in terms of Section 54 of Government Regulation No. R. 543 of 18 June 2010 of the application for a basic assessment on the above referred to property.

Please do not hesitate to forward any comments with regard to the proposed development to the writer within the next 40 (forty) days.

Kind regards

Cappie Linde

MEMBER: C. P. LINDE (M. ENV. DEV.: UKN)



Appendix G5: Advertisement in Gazette

NOTICE 270 OF 2013

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given in terms of the 2010 Environmental Impact Assessment Regulations under Section 44 of the National Environmental Management Act (Act No. 107 of 1998) of an application to the North West Department of Economic Development, Environment, Conservation & Tourism for the basic assessment of the proposed transformation of a portion of Portion 6 Waterval 303 JQ, Rustenburg Local Municipality, North West Province for purposes of establishing warehousing, distribution and supply chain facilities as well as related railway infrastructure on a total development footprint of approximately 5 hectares.

Nature and location of activity: The activity represents the transformation of undeveloped, vacant or derelict land to residential, retail, commercial, recreational, industrial or institutional use, outside an urban area and where the total area to be transformed is bigger than 1 hectare and smaller than 20 hectares as described in Activity No. 23ii of Government Notice No. R. 544 of 18 June 2010. It also represents the expansion of railway lines, stations or shunting yards where there will be an increased development footprint as described in Activity No. 53 of Government Notice No. R. 544 of 18 June 2010. It also represents the construction of facilities or infrastructure for the storage and handling dangerous goods in containers with a combined capacity of 80 but not exceeding 500 cubic metres as described in Activity No. 13 of Government Notice No. R. 544 of 18 June 2010., Property Co-ordinates: 25°40'58.42 South, 27°21'30.98 West. Proponent: Anglo American Platinum (Pty) Ltd.

Further information can be obtained from and representations can be made to the following person within 30 (thirty) days of date of this notice: C P Linde; Envirovision Consulting; Cellular phone: 0824440367; Fax number: 0865579447; E-mail address: envirovision@lantic.net; Postal address: 450 Wendy Street, Waterkloof Glen, 0010.

Appendix G6: Comments and responses

No comments have been received in reaction to the prescribed letters of notification.

Appendix G7: Significance Rating Methodology

SIGNIFICANCE ASSESSMENT METHODOLOGY

The **significance** of Environmental Impacts were assessed in accordance with the following method:

Significance is the product of probability and severity. Probability describes the likelihood of the impact actually occurring, and is rated as follows:

- Improbable - Low possibility of impact to occur either because of design or historic experience.
Rating = 2
- Probable - Prominent possibility that impact will occur.
Rating = 3
- Highly probable - Most likely that impact will occur.
Rating = 4
- Definite - Impact will occur regardless of any prevention measures
Rating = 5

The **severity rating** is calculated from the *factors* given to **intensity** and **duration**. Intensity and duration factors are awarded to each impact, as described below.

The **Intensity factor** is awarded to each impact according to the following method:

- Low intensity - Nature and/or man made functions not affected and a minor impact may occur.
Factor 1
- Medium intensity - Environment affected but natural functions and processes can continue though often in a slightly altered manner.
Factor 2
- High intensity - Environment affected to the extent that natural functions are altered to the extent that it will temporarily or permanently cease.
Factor 4

Duration is assessed and a *factor* awarded in accordance with the following:

- Short term - ≤ 1 to 5 years
Factor 2
- Medium term - 5 – 15 years
Factor 3
- Long term - Impact will only cease after the operational life of the activity, either because of natural process or by human intervention.
Factor 4
- Permanent - Mitigation, either by natural process or by human intervention, will not occur in such a way or in such a time span that the impact can be considered transient.
Factor 5

The **severity rating** is obtained from calculating a severity factor, and comparing the severity factor to the rating in the table below, for example:

$$\begin{aligned} \text{The Severity factor} &= \text{Intensity factor} \times \text{Duration factor} \\ &= 2 \times 3 \\ &= 6 \end{aligned}$$

A Severity factor of 6 (six) equals a Severity Rating of Medium severity (Rating 3) as per table below:

TABLE 1: SEVERITY RATINGS

RATING	FACTOR
Low Severity (Rating 2)	Calculated values 2 to 4
Medium Severity (Rating 3)	Calculated values 5 to 8
High Severity (Rating 4)	Calculated values 9 to 12
Very High Severity (Rating 5)	Calculated values 13 to 16 and more
Severity factors below 3 indicate no impact	

A Significance Rating is calculated by multiplying the Severity Rating with the Probability Rating:

The significance rating should influence the development project as described below:

- Low significance (calculated Significance Rating 4 to 6)
 - Positive impact and negative impacts of low significance should have no influence on the proposed development project
- Medium significance (calculated Significance Rating ≥ 7 to 12)
 - **Positive impact**
Should indicate that the proposed project should be approved
 - **Negative impact:**
Should be mitigated or mitigation measures should be formulated before the proposed project can be approved
- High significance (calculated Significance Rating ≥ 13 to 18)
 - **Positive impact:**
Should points towards a decision for the project to be approved and should be enhanced in final design
 - **Negative impact:**
Should weigh towards a decision to terminate proposal, or mitigation should be formulated and performed to reduce significance to at least low significance rating.
- Very High significance (calculated Significance Rating ≥ 19 to 25 and more)
 - **Positive impact:**
Positive indication that the project should be approved.
 - **Negative impact:**
This weighs towards that if mitigation cannot be effectively implemented, proposal should be terminated.

Appendix G8: Deeds Office Printout

Deeds Office Property

WATERVAL, 303, 6 (REMAINING EXTENT) (PRETORIA)

GENERAL INFORMATION

Deeds Office	PRETORIA
Date Requested	2013/03/18 17:02
Information Source	DEEDS OFFICE
Reference	-

PROPERTY INFORMATION

Property Type	FARM
Farm Name	WATERVAL
Farm Number	303
Portion Number	6 (REMAINING EXTENT)
Local Authority	RUSTENBURG LOCAL MUNICIPALITY
Registration Division	JQ
Province	NORTH-WEST
Diagram Deed	T12326/927
Extent	408,1573H411,
Previous Description	-LG975/967
LPI Code	TOJQ00000000030300006

OWNER INFORMATION

Owner 1 of 1

Person Type	COMPANY
Name	RUSTENBURG PLATINUM MINES LTD
Registration Number	193100338006
Title Deed	T4809/1998
Registration Date	1998/01/21
Purchase Price (R)	1,416,000 *
Purchase Date	1997/10/06
Share	*
Microfilm Reference	2005 0595 3003
Multiple Properties	YES
Multiple Owners	YES

ENDORSEMENTS (25)					
#	Document	Description	Institution	Amount (R)	Microfilm
1	I-15920/1996C-K230/4	INTERDICT	5RM	UNKNOWN	-
2	I-15921/1996C-K495/3	INTERDICT	3S	UNKNOWN	-
3	K1083/1980S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	-
4	K1568/1981S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1985 1485 1388
5	K1619/1975S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	-
6	K1797/1989S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1991 0800 0018
7	K2084/1978S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	-
8	K287A/1978S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	-
9	K288/1978S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	-
10	K2926/1993S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1993 0412 1773
11	K2989/1979S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	-
12	K305/1985S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1985 1200 1124
13	K345/2005S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	2005 0595 3044
14	K3594/1985S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1985 1485 1395
15	K4028/1991S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	ROETEBEPALING K1797/89S	UNKNOWN	1991 0800 0027
16	K5118/1999S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1999 0978 4566
17	K5119/1999RM	CONTRACT SERVITUDES/MINERALS/LEASES/PC	CLASSEN ANN	UNKNOWN	1999 0978 4582
18	K5543/1992S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1993 1083 0110
19	K5597/1992S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1993 0412 1769
20	K6609/1996S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1999 0978 4576
21	K6694/1993S	CONTRACT SERVITUDES/MINERALS/LEASES/PC	-	UNKNOWN	1993 1083 0114
22	VA4745/1996	LOST COPY	K230/1945RM	UNKNOWN	1996 1047 3476
23	VA5612/1999	LOST COPY	ABSA BANK LTD	UNKNOWN	1999 0978 4514
24	CL-RUSTENBU RG TLC	-	-	UNKNOWN	-
25	JQ,303,6	-	-	UNKNOWN	1987 0863 0465

HISTORIC DOCUMENTS (2)					
#	Document	Description	Owner	Amount (R)	Microfilm
1	T33030/1955	TRANSFER	COMBRINK FREDERIK WILHELM	UNKNOWN	1985 0583 1709
2	T15143/1985	TRANSFER	COMBRINK NICOLAAS JOHANNES J	BOEDEL	1998 0198 2739

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Appendix G9:Details and expertise of Environmental Assessment Practitioner

1. Personal particulars

Name: Carel Petrus Linde
Identity number: 6805275073084
Cellular: 0824440367
Fax number: 0865579447
Physical address: 450 Wendy Street, Waterkloof Glen, Pretoria
Postal address: 450 Wendy Street, Waterkloof Glen, 0010
Tertiary Qualifications: BA (Potchefstroom University 1990)
BA Hons (Potchefstroom University 1991)
M.Env.Dev. (University of Kwazulu Natal 2006)
Certification: ICB Certified

2. Professional expertise

Over a period of ten years starting 1991, Carel Petrus Linde has been closely involved in the regulatory implementation environment at national level attached to the Department of Land Affairs in a final capacity as a Deputy Director. In this capacity his focus and experience has been developed in the areas of development, land use, land rights and related environmental matters. He also established valuable working relationships and networks at national, provincial and local government level.

During that time he served on the DANCED (Danish Council for Environmental Development) study team on the Environmental Aspects of South African Land Reform Projects. He also represented his Department on the Gauteng Provincial Environmental Planning Framework Committee.

He obtained a Masters Degree in the Environment and Development from the University of Kwazulu-Natal in 2006 (attached). His thesis concentrated on the quality of the integrated environmental management system in South Africa based on sectoral case studies (medical incineration).

Over the past ten years he has been acting as an environmental assessment practitioner. During this period he facilitated the issuing of more than a hundred Records of Decision and various other environmental assignments in five different provinces.

He is registered with the Interim Certification Board (ICB) as a certified environmental assessment practitioner. He is also a registered member of the South African branch of the International Association of Impact Assessment and a founding member of the Environmental Assessment Practitioners Association of South Africa (EAPASA),

During this period he has proven his abilities in the following fields:

- His ability to be independent;

- His ability to conduct environmental impact assessments, including knowledge of the National Environmental Management Act, 1998 (Act 107 of 1998), these Regulations and any guidelines that have relevance to the proposed activity;
- His ability to perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- His ability to comply with the National Environmental Management Act, the relevant Regulations and all other applicable legislation;
- His ability to take into account, to the extent possible, the matters listed in Section 8(b) of Government Notice No. R. 385 of 21 April 2006 when preparing the application and any related report; and
- His ability to disclose to the applicant and the competent authority all material information in the possession of the EAP that reasonably has or may have the potential of influencing –
 - any decision to be taken with respect to the application by the competent authority in terms of these Regulations; or
 - the objectivity of any report, plan or document to be prepared by the EAP in terms of these Regulations for submission to the competent authority.

The above referred to abilities correspond with the requirements that have been set for environmental assessment practitioners in terms of Section 18 of Government Notice No. R. 385 of 21 April 2006 as well as Section 17 of Government Notice No. R. 540 of 18 June 2010.

3. Overview of approved projects / environmental authorisations where Carel Petrus Linde acted as lead consultant

2003

Gauteng

Township establishment Sunninghill X157, Sandton

Mpumalanga

Township establishment Lydenburg X30-35, Lydenburg

North West

Brick factory on Portion 3 Rooipoort 109 IQ, Carletonville

Filling station on Portions 1 & 31, Lichtenburg

Filling station on Portions 519 & 1055 Vyfhoek 428 IQ, Potchefstroom

Guesthouse establishment on Portion 963 Vyfhoek 428 IQ, Potchefstroom

Resort establishment on Zoutpansdrift 415, Brits

Resort establishment on Portion 28 Zeekoevallei 73 JQ, Zeerust

Township establishment on Portion 384 Vyfhoek 428 IQ, Potchefstroom

Township establishment Melodie X28, Hartbeespoort Dam

2004

Free State

Resort establishment on Portion 1 Bet-EI 267, Parys

Township establishment on Letsatsi La Afrika, Orkney

North West

Helderzicht Country Estate, Potchefstroom

Resort establishment on Portion 19 Oorbietjesfontein 569 IQ, Parys

Resort establishment on Portion 21 Oorbietjesfontein 569 IQ, Parys

Township establishment on Holding 82 Harmony AH, Hartbeespoort Dam Township establishment on Portion 42 Hartebeestpoort 482 JQ, North West

Township establishment on Portion 304 Rooikoppies 427 JQ, Brits
Township establishment on Portion 346 Rooikoppies 427 JQ, Brits
Township establishment on Holding 106 Wilkoppies AH, Klerksdorp
Township establishment on Portion 30 Wilgeboom 458 IQ, Potchefstroom
Township establishment on Portions 1145 & 1146 Vyfhoek 428 IQ, Potchefstroom
Bulk Services Portion 30 Wilgeboom 458 IQ, Potchefstroom

2005

Free State

Resort establishment on the Remainder of Woodlands 407, Parys

Gauteng

Resort establishment on Portion 15 Groenfontein 125 JR, Cullinan
School formalisation on Holding 83 Wonderboom AH, Pretoria
Subdivision of Portion 82 Leeuwfontein 299 JR, Cullinan
Township establishment on Portion 92 Bothasfontein 408 JR, Sandton
Township establishment on Portion 118 Witfontein 301 JR, Pretoria

North West

Dairy processing plant on Portion 7 Klipdrift 395 IQ, Potchefstroom
Diesel depot on Erf 227 Sannieshof, Sannieshof
Open space closure on Erf 348 Stilfontein, Stilfontein
Resort establishment on Holding 49 Lindequesdrift AH, Parys
Township establishment on Portion 484 Elandsheuvel 402 IP, Klerksdorp
Township establishment on Portion 21 Goedgenoeg 433 IP, Orkney
Township establishment on Portion 5 Mooivallei AH, Potchefstroom
Township establishment on Portion 6 Mooivallei AH, Potchefstroom
Township establishment on Portion 13 Mooivallei AH, Potchefstroom
Township establishment on Portion 451 Rooikoppies 427 JQ, Brits
Township establishment on Portions 934-936 Vyfhoek 428 IQ, Potchefstroom

2006

Free State

Township establishment on Portion 23 Pretoriuskraal 53, Orkney

Gauteng

Resort establishment on Portion 1 Varkfontein 241 JR, Cullinan
Township establishment on Holding 40 Heatherdale AH, Pretoria
Township establishment on Holding 152 Heatherdale AH, Pretoria
Township establishment on Holding 37 Olympus AH, Pretoria
Township establishment on Portion 128 Randfontein 247 IQ, Randfontein
Township establishment on Portion 129, Randfontein 247 IQ, Randfontein
Township establishment on Portion 609 Witfontein 301 JR, Randfontein
Township establishment Marquis Estate, Muldersdrift

Limpopo

Harmony Country Estate, Hoedspruit

Mpumalanga

Filling station on Portion 2 Rietfontein 648 IR, Villiers

North West

Open space closure Erf 1005 Flamwood, Klerksdorp
Resort establishment on Portion 17 Buisfontein 367 IP, Hartbeesfontein
Township establishment on Portion 741 Elandsheuvel 402 IP, Klerksdorp
Township establishment on Portion 5 Kafferskraal 400 IP, Klerksdorp
Township establishment on Portion 84 Kafferskraal 400 IP, Klerksdorp
Township establishment on Holding 79 Wilkoppies AH, Klerksdorp
Township establishment on Holding 103 Wilkoppies AH, Klerksdorp
Township establishment Lethlabile Block I, Brits

2007

Free State

Township establishment on Driekoppen 1322, Vrede

Gauteng

Filling station on Portion 124 Hartebeesthoek 303 JR, Pretoria
Township establishment Eldorette X31, Pretoria
Township establishment Eldorette X32, Pretoria

North West

Electrical reticulation Potchefstroom
Feasibility study Portion 1 Modderspruit 389 JQ, Magaliesburg
Township establishment Portion 128 Elandsheuvel 402 IP, Klerksdorp
Township establishment Portion 323 Elandsheuvel 402 IP, Klerksdorp
Township establishment on Portion 54 Scheerpoort 477 JQ, Skeerpoort
Township establishment on Portion 518 Vyfhoek 428 IQ, Potchefstroom
Township establishment on Portion 680 Vyfhoek 428 IQ, Potchefstroom
Township establishment on Portion 875 Vyfhoek 428 IQ, Potchefstroom
Preliminary environmental assessment: Mafikeng regional shopping centre

2008

Free State

Subdivision of Erf 10 Renovaal, Viljoenskroon

Gauteng

Preliminary environmental assessment Rustfontein, Bronkhorstspuit
Preliminary environmental assessment Erf 387 Protea North, Soweto
Storage facility on Winternest 8 AH, Pretoria
Subdivision of Portion 403 Mooiplaats 367 JR, Pretoria
Subdivision of Portion 408 Mooiplaats 367 JR, Pretoria
Township establishment Heatherview X56, Pretoria

Limpopo

Mabalingwe revised scoping report, Bela-Bela

North West

Country estate on Portion 12 Lemoenfontein 250 IP, Coligny
Country estate on portions of Zoutpansdrift 415 JQ, Brits
Open space closure Erf 881 Stilfontein
Open space closure R-/ Erf 1005 Flamwood, Klerksdorp

2009

Gauteng

Amendment application Heatherdale AH 110, Pretoria
Township establishment Cullinan X1, Cullinan
Township establishment Erasmus X25, Bronkhorstspuit

Limpopo

Township establishment on Portion 128 Koedoesdoorns 414 KQ, Northam

North West

Township establishment Delareyville X8, Delareyville
Township establishment Letsopa X6, Ottosdal
Township establishment on Portion 12 De Rust 478 JQ, Hartbeespoort Dam
Township establishment on Portion 97 Krokodildrift 446 JQ, Brits
Township establishment on Portion 40 Rietfontein 485 JQ, Ifafi
Township establishment on Portion 386 Elandsheuvel 402 IP, Klerksdorp
Township establishment on Portion 594 Elandsheuvel 402 IP, Klerksdorp
Above ground diesel storage on Erf 1458 Klerksindustria, Klerksdorp
Township establishment Greenspark, Merafong

2010, 2011, 2012 and current (approved and pending)

Free State

Peer review of an application for the environmental authorisation of a solar power plant on a portion of the farm Omega, Moqhaka Local Municipality.

Gauteng

Bloemendal Estate, Roodeplaat
Bulk Infrastructure Kievits Kroon, Roodeplaat
Bulk Infrastructure Glenway, Roodeplaat
Amendment - Township establishment Erasmus X25, Bronkhorstspuit
Regional business centre, Greenhills X11, Randfontein
Wedding Venue Portion 18 Boschhoek, Carletonville
Resort establishment Koesterfontein, Magaliesburg
Environmental Management Process: Marquis Estate - Construction
Environmental Management Process: Randfontein 129 – Construction
Petrochemical Storage Plant, Daggafontein, Springs
Marquis Estate Amendment Application, Honeydew
Establishment of wedding venue on Portion 12 Zwartkop 525 JQ, Kromdraai
Proposed extension of Joe Mzemane Street, Kwa Thema
Orchards Memorial Park, Tshwane
Preliminary environmental assessment: Witpoort, Randfontein

Limpopo

Township establishment on Portion 128 Koedoesdoorns 414 KQ, Northam
Township establishment on Wachteenbietjesdraai, Thabazimbi
Township establishment on Portion 20 Doornhoek, Thabazimbi

Mpumalanga

Upgrading of filling station (Vaal Truck Inn) on Portion 2 Rietfontein 648 IR, Villiers

Northern Cape

Preliminary environmental assessment: Kathu
Mixed typology development in the town of Kathu

North West

Township establishment Portion 20 Kameeldoorn, Zeerust
Township establishment Tshing X6 & X7, Ventersdorp
Section 24G Application, Portion 16 De Rust, Madibeng
Filling Station Portion 69 Kafferskraal, Klerksdorp
Filling Station Portion 26 Goedgenoeg, Klerksdorp
Private Resort on Portion 3 Buffelskloof, Venterskroon
Section 24G Application, Lavender Hills, Parys
Township establishment on Mmabatho Town and Townlands, Mmabatho
Section 24G Application, Red Ivory, Hartbeespoort Dam
Chicken houses & Abattoir Holding 6 Riastuine Agricultural Holdings
Township establishment proposed Rulaganyang X2, Maquassie Hills
Township establishment proposed Leeudoornstad X6, Maquassie Hills
Township establishment Portion 1177 Vyfhoek 428 IQ
Section 24G application: Memento Restaurant, Fochville
Preliminary environmental assessment, Potchefstroom Military Hospital
Preliminary environmental assessment, Bleskop Mine WLDC

KwaZulu-Natal

Establishment of Bergville wastewater treatment plant and reticulation system

4. References

NAME	CAPACITY	CONTACT NUMBER
Robert Streak	Town Planner: Urban Consult	0825730409
Thinus De Jager	Town Planner: Placentre	(018) 2970100
Joze Maleta	Town Planner: JML	082 556 6320
Sakkie Nienaber	Client / Developer: DHR Services (Pty) Ltd	082 875 8151
Christo Duminy	Client / Developer: Ivora (Pty) Ltd	082 563 4810
Hennie Nasveld	Client / Developer: Crimson King (Pty) Ltd	083 252 8410
Ben Botha	Attorney / Client: Botha De Wet Roodt	(018) 4623751



POTCHEFSTROOMSE UNIVERSITEIT
VIR CHRISTELIKE HOËR ONDERWYS

BACCALAUREUSGRAAD

Kragtens die bevoegdheid aan die Universiteit verleen
word hiermee aan

**** CAREL PETRUS LINDE ****

die graad

Baccalaureus Artium

toegeken

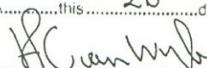
nadat aan die vereistes vir die graad voldoen is

POTCHEFSTROOM 19 Maart 1990


Vise-kanselier



Registrateur

Vise-kanselier		as 'n ware afskrif van die oorspronklike. Geteken Certified as a true and correct copy of the original. Signed	
te	hierdie	dag van	
at Pta	this 26	day of Maart	19 90
 Kommissaris van Ede vir die Republiek van Suid-Afrika Commissioner of Oaths for the Republic of South Africa Distrik van Pretoria District of Pretoria			
Ex Officio: Rang	SAB		
Ex Officio: Rank			



POTCHEFSTROOMSE UNIVERSITEIT
VIR CHRISTELIKE HOËR ONDERWYS

HONNEURSGRAAD

Kragtens die bevoegdheid aan die Universiteit verleen
word hiermee aan

** CAREL PETRUS LINDE **

die graad

Honneurs Baccalaureus Artium

toegeken

nadat aan die vereistes vir die graad voldoen is

POTCHEFSTROOM 22 April 1991

RK
Gesenlê as 'n ware afskrif van die oorspronklike. Geteken
Certified as a true and correct copy of the original. Signed
Vise-kanselier hierdie 26 dag van Maart 1991
at Pta mis day of
K. C. van Wyk
Kommissaris van Ede vir die Republiek van Suid-Afrika
Commissioner of Oaths for the Republic of South Africa
Distrik van Pretoria
District of Pretoria
Ex Officio: Rang SAB
Ex Officio: Rank

M. S. van der Merwe
Registateur



UNIVERSITY OF KWAZULU-NATAL

The Universities of Durban-Westville and Natal merged
to become the University of KwaZulu-Natal on 1 January 2004

This is to certify that

Carel Petrus Linde

was admitted this day
at a congregation of the University
to the degree of

Master of Environment and Development

having satisfied the conditions prescribed for the degree.



M W Makgoba
Vice-Chancellor

E Mnene
Registrar

J A Cooke
Dean

9 October 2006



The Interim Certification Board
for
Environmental Assessment Practitioners
of
South Africa

Carel Petrus Linde

was certified as an

**ENVIRONMENTAL ASSESSMENT
PRACTITIONER**

on this 8th day of August 2012

.....
Chairperson

.....
Secretary