

staff of the Training Department. The evaluation can also be supplemented by senior management if required.

### 5.3.4 Training Evaluation

Evaluation of induction training, procedure training and general awareness and competency (implementation of training in the work place - by conducting PTO's on SHE Days) will be carried out by the SHE day team, Environmental Officer, Environmental Coordinator, Activity Managers and staff of the Training Department.

The following records shall be maintained by the Training Department when relevant:

- Personnel qualifications
- Training needs
- Certificates
- Licences
- Training programmes / courses attended
- Staff induction

Performance appraisals are kept by the Industrial Relations Department due to their sensitive nature.

All foregoing records will be maintained in the employee's personnel files, Training Department records section and Site Manager's records where applicable. Induction training is the responsibility of the Training Superintendent as well as all other forms of external training facilities / courses / venues etc. EMS training is co-responsibility shared with the EMS Co-ordinator.

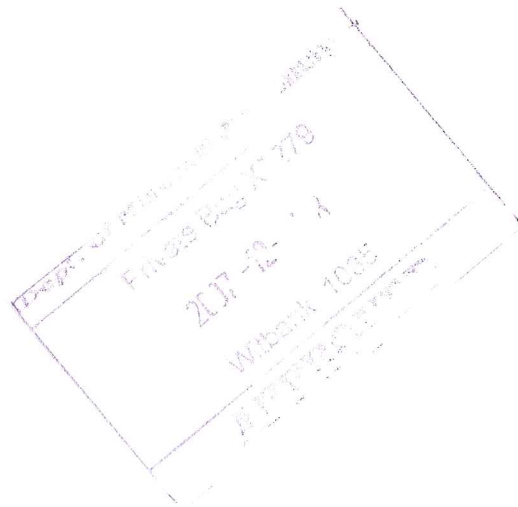
### 5.3.5 Reporting

- A standard reporting procedure, which is detailed below, has been formulated for Landau Colliery, which will include Navigation West. It is the responsibility of the Environmental coordinator to maintain the procedure.
- On a monthly basis a reporting checklist will be completed and filed in the site's EMS file. On an annual basis a reporting checklist will be completed and filed in the site's EMS file. A copy of the report is to be kept in the EMS master file and a copy kept by the person responsible for this procedure.
- A short explanatory note will be completed on non-conformance and forwarded to the relevant department.

## SECTION SIX

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### Undertaking



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## 6. UNDERTAKING TO COMPLY

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# Undertaking



### Mining Law & Property Department

**Henri Nieuwoudt**

Manager, Mining Law & Property

Direct Fax: +27 (0)11 638 4608

Direct Line: +27 (0)11 638 3781

Mobile: 083 308 1964

email: hnieuwoudt@angloamerican.co.za

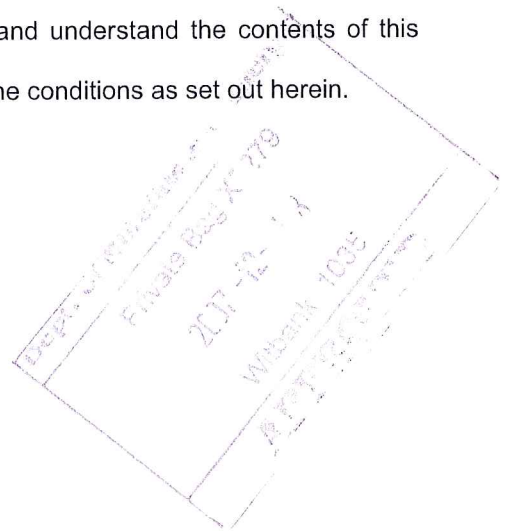
I, **HENRI ROUX NIEUWOUDT** the undersigned and duly authorized to attend to the signature of this document as recorded in an empowering resolution confirmed on 21<sup>st</sup> July 2004 by **ANGLO COAL, A DIVISION OF ANGLO OPERATIONS LIMITED**, have studied and understand the contents of this document in its entirety and hereby duly undertake to adhere to the conditions as set out herein.

Signed at **JOHANNESBURG** on the **12<sup>th</sup>** day of **JUNE 2007**.

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Signature

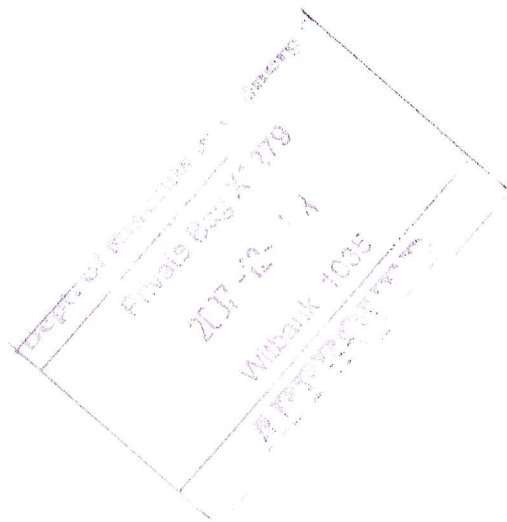
**Manager: Mining Law & Property**



# SECTION SEVEN

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## Statutory Requirements

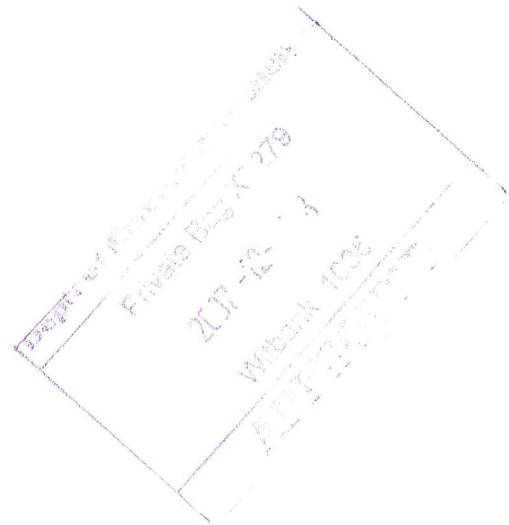


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## 7. STATUTORY REQUIREMENTS

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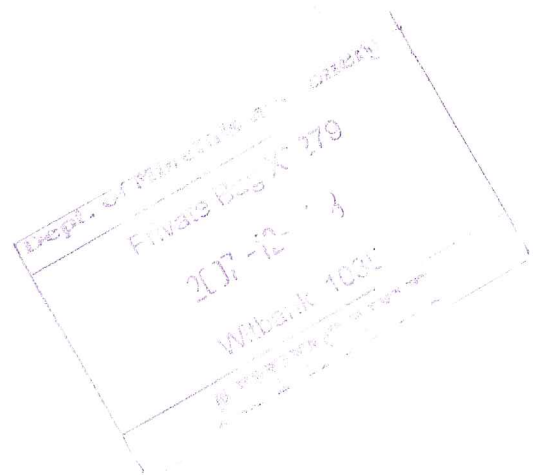
No mining has taken place at the Navigation West project area, and therefore **no permits or authorisations** have been issued.



# SECTION EIGHT

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## Changes to EMPR



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## 8. CHANGES TO EMPR

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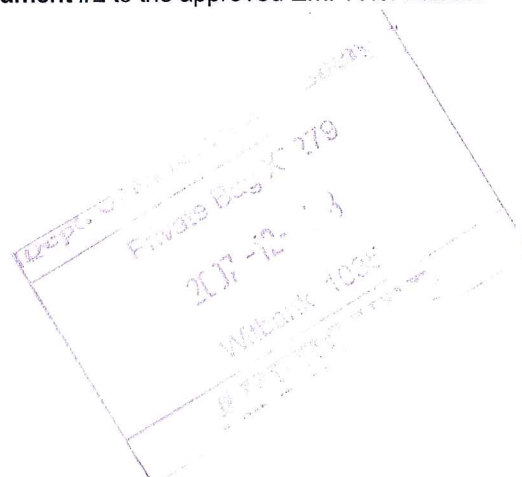
With reference to the approved environmental management programme for mining licence ML 10/1995, please note the following:

- **Main EMPR Report**, approved dated 19<sup>th</sup> November 2001 under DME reference OT 6/2/2/141.

This EMPR has the following additional documents associated with it:

- **Amendment #1: Excelsior / South Block**, submitted to DME on 8<sup>th</sup> July 2005 and granted by DME on 19<sup>th</sup> July 2005, in respect of a change of mine plans to exploit the Excelsior and South Block resources.
- **Addendum # 1: Greenside Expansion Project**, submitted to DME on 9<sup>th</sup> March 2006, currently pending approval, in respect of a change of mine plans in relation to the adjacent Greenside Colliery.
- **Addendum # 2: Emalahleni Water Reclamation Project**, submitted to DME on 18<sup>th</sup> September 2006, currently pending approval, in respect of a proposal to clean and recycle mine water.

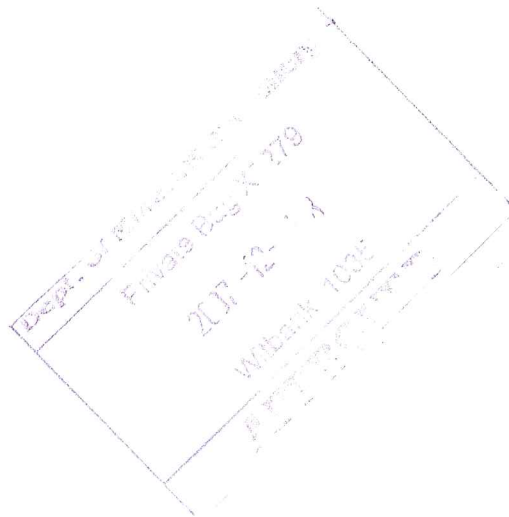
This document submitted here therefore represents **Amendment #2** to the approved EMPR for Landau Colliery ML 10/1995.



# SECTION NINE

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## Technical & Supporting Documentation





## 9. TECHNICAL & SUPPORTING INFORMATION

### 9.1 SUBMISSION OF INFORMATION

The management procedures will be audited and monitored in order to ensure that the various objectives in mitigating the impacts are met. These objectives will be checked as indicated below to ensure that, should an objective not be attainable, the relevant authority can be immediately notified and alternatives discussed.

Unless otherwise indicated the procedures apply to all sections. The auditing procedures are as follows:

#### Topography

Objective:	To ensure that the rehabilitated areas have a topography that conforms to the inherent local topography, post-mining area is topsoiled and grassed, and made stable in the long-term.
Measuring point:	At all rehabilitated areas.
Frequency measured:	Re-evaluation annually, measurements will be ongoing
Variables to be measured:	Levels and slopes.
Format of submission:	Deviations will be calculated and problem areas identified.
Submission of data:	Surveyor plans annually submitted to DME.

#### Soils

Objective:	To ensure all rehabilitated areas are covered with a layer of topsoil, at least 300 mm thick, before being grassed.
Measuring point:	Rehabilitated areas.
Frequency measured:	Once rehabilitation starts annually.
Variables to be measured:	Soil contamination, quality of replaced soil.
Format of submission:	Problem areas will be identified.
Submission of data:	Information will be provided in the annual internal EMP Performance



Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report.

#### Land Use and Capability

Objective:	To ensure that definable wilderness land will exist post-mining/ existing use unchanged.
Measuring point:	Rehabilitated areas.
Frequency measured:	Annually.
Variables to be measured:	Soil depths, soil type, and quality of replaced soil.
Format of submission:	The monitoring system will be formalised and documented.
Submission of data:	Information will be provided in the annual internal EMP Performance Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report.

#### Vegetation

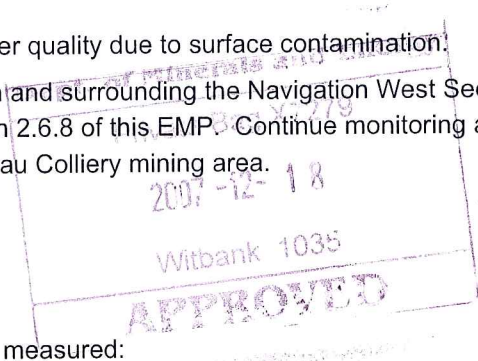
Objective:	To ensure that the rehabilitation plan as discussed in the EMP is carried out and to determine the biodiversity of the rehabilitated area. To ensure that vegetation will cover the entire rehabilitated area during the maintenance program, and that in the long-term, the veld continues to re-establish itself. To measure against adjacent areas.
Measuring point:	Rehabilitated areas.
Frequency measured:	Only once rehabilitation starts (during mining and after closure).
Variables to be measured:	Species diversity and vegetation cover, as well as presence of alien and invasive weed species.
Format of submission:	Average vegetation cover and species diversity achieved will be indicated together with an assessment of long-term trends. Problems with invader species will be highlighted.
Submission of data:	Information will be provided in the annual internal EMP Performance Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report.

### Surface Water

- Objective:** To ensure that surface water quantity and quality are not affected by the proposed mining operation, through dirty water spillages, contaminated surface water runoff, discharge of contaminated water into the streams and unnecessary containment of clean water.
- Measuring point:** Dirty water holding facilities and watercourses upstream and downstream of mining area. For more detail refer to Section 2.6.7 of this EMP.
- Frequency measured:** Monthly.
- Variables to be measured:** The following variables will be measured:  
EC, pH, TDS, total hardness, total alkalinity, calcium, magnesium, sodium, potassium, chloride, sulphate, fluoride, nitrate, iron, manganese, aluminium and turbidity.  
Note: The above list will be modified to suit any problem constituents that may be identified.
- Format of submission:** Results will be presented in tabular and graphic form indicating minimum, maximum, average and weighted average together with all the individual readings.
- Submission of data:** Information will be provided in the annual internal EMP Performance Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report. Information will be provided in the annual water quality report submitted to the Department of Minerals and Energy and the Department of Water Affairs and Forestry.

### Ground Water

- Objective:** To monitor the impact of mining on the groundwater regime with respect to:  
Development of the cone of depression around the mining area and possible impact on the yields of external users' boreholes for at least a 1 km buffer zone beyond mining activity.  
Possible impact on groundwater quality due to surface contamination.
- Measuring point:** All monitoring boreholes within and surrounding the Navigation West Section (for more detail refer to Section 2.6.8 of this EMP). Continue monitoring at existing boreholes within Landau Colliery mining area.
- Frequency measured:** Quarterly.
- Variables to be measured:** The following variables will be measured:



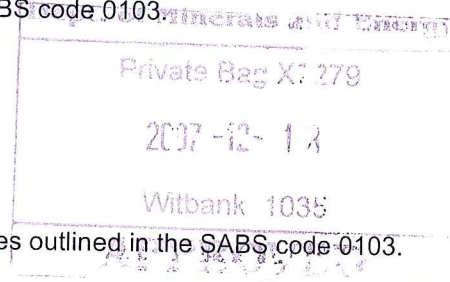
- EC, pH, TDS, total hardness, total alkalinity, calcium, magnesium, sodium, potassium, chloride, sulphate, fluoride, nitrate, iron, manganese, aluminium and turbidity.
- Format of submission: Results will be presented in tabular form indicating areas where an impact has been identified.
- Submission of data: Information will be provided in the annual internal EMP Performance Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report. Information will be provided in the annual water quality report submitted to the Department of Minerals and Energy and the Department of Water Affairs and Forestry.

### Air Quality

- Objective: To ensure that the mine minimises dust emissions so as to ensure the dust does not become a health hazard.
- Measuring point: At suitable receptor sites.
- Frequency measured: Once installed, monthly
- Variable to be measured: An inspection to validate that dust control measures are being carried out will be undertaken. Dust measurements will be compared to the application standards.
- Format of submission: A short report indicating whether dust emissions are being handled correctly, and whether the levels of dust being generated are within accepted norms to not represent a health hazard.
- Submission of data: Information will be provided in the annual internal EMP Performance Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report.

### Noise

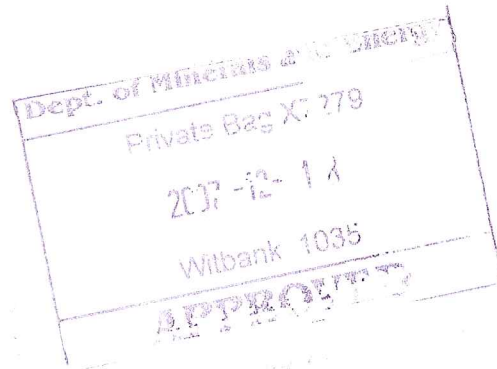
- Objective: To ensure that the increase in noise levels relative to the pre-mining levels remains acceptable in terms of the SABS code 0103.
- Measuring point: At affected areas.
- Frequency measured: Annually.
- Variable to be measured: Noise levels according to the procedures outlined in the SABS code 0103.
- Format of Submission: The difference between background noise levels and measured noise together with the associated annoyance rating as defined in the SABS code



0103.

Submission of data:

Information will be provided in the annual internal EMP Performance Assessment Report and submitted to DME every two years as part of the external EMP Performance Assessment Report.



# SECTION TEN

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## Confidential Information

