



## **Cowal Gold Project – Addendum to the Cyanide Management Plan**

On 23 June 2009, Barrick submitted an application to the Department of Planning to modify the Cowal Gold Project (the Project) Development Consent to allow the use of an alternative cyanide destruction method. The application to modify the Development Consent was approved by the Minister for Planning on 28 August 2009 under Section 96(1A) of the *Environmental Planning and Assessment Act, 1979* (EP&A Act).

This addendum to the Cyanide Management Plan has been prepared to reflect the approved modification to the Development Consent.

COWAL GOLD PROJECT  
ADDENDUM TO THE CYANIDE MANAGEMENT PLAN



OCTOBER 2009  
Project No. HAL-02-07  
Document No. 00309602  
ID: 685101

**ADDENDUM  
Cyanide Management Plan**

1. Replace section 4.2.2 (page 13) with:

In accordance with Consent Condition 5.3(b)(ii),  $CN_{WAD}$  levels of the aqueous component of the tailings slurry stream will be maintained so that they do not exceed 20 mg/L  $CN_{WAD}$  (90 percentile over six months) and 30 mg/L  $CN_{WAD}$  (maximum permissible limit at any time) at the discharge point to the tailings storages. Cyanide destruction has been incorporated into the process to ensure  $CN_{WAD}$  levels at the discharge point to the tailings storages will be maintained to the levels stated above. Caro's Acid or other approved process reagents will be used to destroy cyanide.

2. Replace paragraph two in section 6.5 with:

$CN_{FREE}$  levels in solution will be monitored at a number of locations in the processing plant for process control and cyanide destruction (i.e. to regulate the dosage of Caro's Acid or other approved process reagents and to ensure cyanide in the tailings is destroyed down to the required levels). On-line monitoring of  $CN_{FREE}$  levels in solution will be conducted using Cyantist OCM5000 automated units (or other instrumentation considered appropriate in consultation with DMR, EPA and the Director-General for Planning). Elevated levels of  $CN_{FREE}$  will be displayed in the process control centre where corrective actions will be implemented.

3. Replace paragraph four of section 6.5 with:

On-line monitoring of  $CN_{FREE}$  levels in solution will also be conducted in the final leach tank; the rate of cyanide addition will be fine tuned in the plant to control the level of cyanide in the final leach tank. The aim is for the  $CN_{FREE}$  level to be as low as possible. The  $CN_{FREE}$  level will determine the quantity of Caro's Acid or other approved process reagents required to be used in the cyanide destruction process.