



October 2009

**INTERNATIONAL CYANIDE MANAGEMENT CODE  
GOLD MINING CERTIFICATION AUDIT**

**Barrick Gold of Australia Limited  
Plutonic Gold Mine Certification Audit  
Summary Audit Report**

**Submitted to:**

International Cyanide Management  
Institute (ICMI)  
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Washington, DC 20006  
UNITED STATES OF AMERICA

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REPORT

**Report Number:** 077641418-R08-R-Rev2

**Distribution:**

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## Record of Issue

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### SUMMARY AUDIT REPORT FOR OPERATIONAL GOLD MINES

<b>Name of Mine:</b>	Plutonic Gold Mine
<b>Name of Mine Owner:</b>	Barrick Gold Australia Limited
<b>Name of Mine Operator:</b>	Barrick Gold Australia Limited
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### LOCATION DETAIL AND DESCRIPTION OF OPERATION:

Globally Barrick has 27 operating mines, located in some of the world's most prospective gold districts in North America, South America, Australia-Pacific and Africa.

Barrick's Australia-Pacific Business Unit is headquartered in Perth, Western Australia and comprises 10 operating mines: the Kalgoorlie, Kanowna, Granny Smith, Plutonic, Darlot and Lawlers gold mines in Western Australia; the Cowal gold mine in New South Wales; the Henty gold mine in Tasmania; the Osborne copper-gold mine in Queensland; and the Porgera gold mine in Papua New Guinea.

Plutonic includes a total of 34 open pits over a strike length of 80 km in a north-easterly trend from the mill. Plutonic has operated a number of these pits, and acquired some in the purchase of the Marymia tenements. None of the open pits have any permanent infrastructure associated with them.

Ore crushing circuit feeds an ore grinding circuit which feeds two leaching (CIP/CIL) circuits operating in parallel treating a blend of underground and laterite ore. A second crushing and grinding circuit is currently under care and maintenance. Tailings are discharged to a combination of in-pit and surface tailings storages.

Power for the Plutonic site is provided by a gas-fired power station. Gas is sourced via a lateral connected to the North West Shelf to Perth pipeline. A second, diesel-fired power station is also located on-site, and this is used as a supplemental power source. Accommodation for the workforce is provided at the mining camp, located approximately 2 km to the west of the processing plant. An airstrip is located approximately 3 km south of the processing plant.

The current configuration of the plant has been designed to treat oxide and primary ores at variable annual production rates (up to 2,000,000 tpa). The general operating procedures following apply for processing all ore types at all production rates.

Plutonic has been in operation since August 1990. The original process plant (PP1) was upgraded to a three stage crushing circuit in 1994 and in 1996, the addition of a complete second circuit (PP2) was instigated. In the past PP1 has been used for treating primary ore and PP2 for treating oxide ore, however at the end of June 2004 these circuits were combined and now consist of the original PP1 crushing and milling circuit and



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a combined PP1 and PP2 leach circuit, which have operated in parallel until recently. Since late 2008, Plutonic has only operated PP1.

The processing facility is bounded by a Run of Mine (ROM) pad to the south-east, powerhouse and stores yards to the east, open pit to the west and administration buildings to the north.



**SUMMARY AUDIT REPORT  
AUDITORS FINDINGS**

in full compliance with  
The Plutonic Gold Mine is  in substantial compliance with **The International Cyanide Management Code**  
 not in compliance with

**Audit Company:** Golder Associates  
**Audit Team Leader:** Edward Clerk, CEnvP (112), RABQSA (020778)  
**Email:** [eclerk@golder.com.au](mailto:eclerk@golder.com.au)

**Name and Signatures of Other Auditors:**

Name	Position	Signature	Date
Edward Clerk	Lead Auditor and Technical Specialist		4 June 2009
Mark Latham	Auditor		4 June 2009

**Dates of Audit:**

The Certification Audit was undertaken over three days (6 person-days) between 4 March 2009 and 6 March 2009.

I attest that I meet the criteria for knowledge, experience and conflict of interest for Code Verification Audit Team Leader, established by the International Cyanide Management Institute and that all members of the audit team meet the applicable criteria established by the International Cyanide Management Institute for Code Verification Auditors.

I attest that this Summary Audit Report accurately describes the findings of the verification audit. I further attest that the verification audit was conducted in a professional manner in accordance with the International Cyanide Management Code's *Gold Mining Operations Verification Protocol* and using standard and accepted practices for health, safety and environmental audits.

Plutonic Gold Mine  30 October 2009  
 Name of Facility Signature of Lead Auditor Date



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### APPENDIX A

Limitations



**PRINCIPLE 1 – PRODUCTION**

**Encourage Responsible Cyanide Manufacturing by Purchasing from Manufacturers that Operate in a Safe and Environmentally Protective Manner**

**Standard of Practice 1.1:** Purchase cyanide from manufacturers employing appropriate practices and procedures to limit exposure of their workforce to cyanide, and to prevent releases of cyanide to the environment.

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 1.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 1.1, requiring the operation purchase cyanide from manufacturers employing appropriate practices and procedures to limit exposure of their workforce to cyanide and to prevent releases of cyanide to the environment.

Plutonic purchases its sodium cyanide from Orica under a Supply Agreement for the Supply of Sodium Cyanide dated 16 December 2004 amended effective 23 March 2007, which requires that supplied cyanide is manufactured at a facility certified under the Code.

Orica, the supplier of cyanide to the operation, sources cyanide from its Yarwun facility which was fully certified under the Code on 7 June 2007.

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## **PRINCIPLE 2 – TRANSPORTATION**

### **Protect Communities and the Environment During Cyanide Transport**

**Standard of Practice 2.1:** Establish clear lines of responsibility for safety, security, release prevention, training and emergency response in written agreements with producers, distributors and transporters.

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 2.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 2.1, requiring that the operation establish clear lines of responsibility for safety, security, release prevention, training and emergency response in written agreements with producers, distributors and transporters.

Plutonic purchases its sodium cyanide from Orica under a written Supply Agreement that designates responsibility for the aspects of cyanide transportation required by the Code. The Supply Agreement establishes clear lines of responsibility for safety, security, release prevention, training and emergency response through reference to the Code and to the ICMI Cyanide Transportation Audit Protocol.

The Supply Agreement extends to any transportation subcontractors used by Orica, the cyanide transporter, by requiring the transporter and all subcontractors to have passed third-party independent Code certification audits or equivalent.

**Standard of Practice 2.2:** Require that cyanide transporters implement appropriate emergency response plans and capabilities and employ adequate measures for cyanide management.

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 2.2**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 2.2, requiring that cyanide transporters implement appropriate emergency response plans and capabilities and employ adequate measures for cyanide management.

Plutonic sources all its sodium cyanide requirements from Orica. The Supply Agreement requires Orica, as transporter, to provide Plutonic copies of third party audit reports, in accordance with Code requirements, demonstrating responsible cyanide management for the transport activities along the entire supply chain. Furthermore, the Supply Agreement states that no amendment to the supply chain is to be made without prior notification to the Principal (Plutonic) and revised documentation being provided.

Orica has conducted independent code equivalent, non-certification audits of its transportation activities between Yarwun (Queensland) and the Plutonic operation (Western Australia). The transport of cyanide

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from Orica's Yarwun production facility to Plutonic is coordinated from the Yarwun production facility and uses a combination of road and rail:

- Road:
  - Toll Resources (Gladstone, Queensland).
  - Toll Chemical Logistics (Kewdale, Western Australia).
  - Toll Mining Services (Regional Western Australia out of Kalgoorlie).
- Rail:
  - QR National, Queensland (Mt Miller Rail Yard in Queensland to Acacia Ridge Rail Yard in Queensland).
  - Pacific National (From Acacia Ridge Rail Yard through New South Wales, Victoria, South Australia to Kewdale or Kalgoorlie in Western Australia).
  - Australian Railway Group ((ARG) From Kewdale to Kalgoorlie in Western Australia).

The independent code equivalent, non-certification audits covered all transportation activities from Orica's Yarwun production facility to the Plutonic mine site. Orica's due diligence investigations of rail transporters and rail yards were reviewed by the transport auditor during the audit process to determine if it had reasonably evaluated these facilities and implemented, as practical, any necessary management measures.

The audits reports conclude Orica's cyanide transportation activities between Yarwun (Queensland) and the Plutonic operation (Western Australia) demonstrate the implementation of programs, practices and procedures consistent with ICMI's Cyanide Transportation Audit Protocol and were in Full Compliance with the Code.

Orica has conducted independent third party audits of Orica and its subcontractor transportation activities between Yarwun and the Plutonic operation. The audits were conducted within the past three years and the reports are dated March 2007 and May 2008.

Barrick provided documentation demonstrating that cyanide consignments were transported in accordance with the supply chain parties identified in the relevant audit reports.

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**PRINCIPLE 3 – HANDLING AND STORAGE**

**Design and Construct Unloading, Storage and Mixing Facilities Consistent with Sound, Accepted Engineering Practices, Quality Control/Quality Assurance Procedures, Spill Prevention and Spill Containment Measures**

**Standard of Practice 3.1: Design and construct unloading, storage and mixing facilities consistent with sound, accepted engineering practices, quality control/quality assurance procedures, spill prevention and spill containment measures.**

**in full compliance with**

The operation is  in substantial compliance with **Standard of Practice 3.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 3.1, requiring that cyanide handling and storage facilities are designed and constructed consistent with sound, accepted engineering practices, quality assurance/quality quality (QA/QC) procedures, spill prevention and spill containment measures.

Plutonic’s cyanide manufacturer and supplier, Orica, has issued an inspection report to the effect that the facilities comply with their guidelines and consulting engineers GHD have prepared a report certifying that the Cyanide Unloading, Mixing and Storage facilities are in a suitable condition for continued operation. The facilities were originally designed and installed by cyanide manufacturers. The assessment by GHD noted the suitable materials of construction and good condition of bunding, the existence of a concrete surface to prevent seepage and the adequacy of the bunded volume.

The unloading area is designed to capture and contain such spillages as are expected to occur during reagent unloading sparging and transfer to storage. The storage tanks are installed in the open and are vented to atmosphere at elevated locations away from occupied areas.

A significant engineering upgrade program has recently been completed that has implemented measures to ensure that:

- there is a reliable means of preventing overfilling of the Cyanide Storage Tanks; and
- the facilities meet Code requirements in terms of location, general layout and major design principles.

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**Standard of Practice 3.2: Operate unloading, storage and mixing facilities using inspections, preventive maintenance and contingency plans to prevent or contain releases and control and respond to worker exposures.**

The operation is  in full compliance with **Standard of Practice 3.2**  
 in substantial compliance with  
 not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 3.2 requiring that cyanide handling and storage facilities are operated using inspections, preventive maintenance and contingency plans to prevent or contain releases and control and respond to worker exposures.

Plutonic has committed to source cyanide in sparge isotanks as the regular delivery format, though facilities have been retained to enable bulk liquid cyanide to be received under abnormal circumstances. The sparging process is preferred because it minimises the risk of releases and results in empty isocontainers rinsed free of cyanide as well as being more economical. The empty isocontainers are removed immediately from site by Orica for re-use, preventing the use of the isocontainers for any other purpose.

Written procedures are in place to support safe delivery of using both the sparging process and the liquid unloading facility. Work instructions, operator training and practices have been developed and implemented, detailing the operational sequences necessary to mix and transfer a sparged batch and to prepare the system for the next batch. Procedures are in place for prompt spill clean up as necessary.

An Observer is in attendance whenever hoses and valves are operated as part of the unloading processes.

Standard Operating Procedures and operator training are effective in managing unloading practices. As noted in Standard of Practice 4.1, plant inspections and preventive maintenance routines are carried out to scopes and frequencies that appear to be appropriate to the current condition of the facilities and the actual failures experienced.

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## **PRINCIPLE 4 – OPERATIONS**

### **Manage Cyanide Process Solutions and Waste Streams to Protect Human Health and the Environment**

**Standard of Practice 4.1:** **Implement management and operating systems designed to protect human health and the environment including contingency planning and inspection and preventive maintenance procedures.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 4.1**

not in compliance with

#### **Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.1, requiring that the operation implement management and operating systems designed to protect human health and the environment including contingency planning and inspection and preventive maintenance procedures.

The operation has plans and procedures for cyanide facilities. The plans and procedures describe the standard practices necessary for the safe and environmentally sound operation of the facility, including the specific measures needed for compliance with the Code, such as inspections and preventative maintenance activities.

The plans and procedures identify the assumptions and parameters on which the facility design was based and any applicable regulatory requirements.

The operation has recently introduced Barrick's global Change Management Procedure, to identify when changes in the site's processes or operating practices may increase the potential for the release of cyanide and to incorporate the necessary release prevention measures. The procedure will trigger a requirement for signoff of change by the Environmental Superintendent (and the Occupational Health & Safety Superintendent) when changes related to facilities and operations involving cyanide facilities.

Cyanide management contingency procedures have also been developed for situations when there is an upset in a facility's water balance, when inspections and monitoring identify a deviation from design or standard operating procedures, and/or when a temporary closure or cessation of the operation may be necessary.

The operation does inspect cyanide facilities on an established frequency sufficient to assure and document the inspection and that the facilities are functioning within design parameters as well as documenting corrective actions and those responsible for implementing them.

Emergency power is not essential for prevention of unintentional releases and exposures in the event that primary power supply is interrupted, nevertheless, there is a diesel-powered back up power system (1.5 MW capacity) that provides back up to the primary gas-powered generators.

Preventive maintenance programs are implemented and activities are documented to ensure that equipment and devices function as necessary for safe cyanide management.

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**Standard of Practice 4.2: Introduce management and operating systems to minimise cyanide use, thereby limiting concentrations of cyanide in mill tailings.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.2**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.2, requiring that the operation limit the use of cyanide to that optimal for economic recovery of gold so that the waste tailings material has as low a cyanide concentration as practical.

The operation does conduct a program to determine appropriate cyanide addition rates in the mill and evaluate and adjust addition rates as necessary when ore types or processing practices change cyanide requirements. All new ores are identified by the geologists and discussed with the Process Department. An external laboratory is used to undertake metallurgical test work on all new ores. Leach tests are conducted for 24 and 48 hours for varying cyanide addition rates to produce cyanide consumption rate curves. Metallurgical test work and plant performance has identified an optimal cyanide addition rate of approximately 220 to 250 mg/L; however the dosage rate may be increased by 20 mg/L to ensure gold recovery is maintained during unforeseen grade spikes.

Testwork is used to keep the most appropriate cyanide concentration target under review. The Metallurgist advised that recent test work has resulted in the target concentration being lowered from 300 mg/L to 220 mg/L over the past eighteen months.

Cyanide addition rates are adjusted manually using two hourly titration tests to ensure dosing rates are adjusted to maintain the target. If the two hourly tests indicate cyanide levels have departed from the target, the dosing rates are adjusted accordingly. The operation undertook a trial of an Automated Cyanide Sampler with limited success in 2006 and the early part of 2007. The operation has installed another automated testing and dosing system in early 2009 and is investigating the opportunity to use this as part of an automatic control loop with potential benefits of further reducing cyanide usage.

**Standard of Practice 4.3: Implement a comprehensive water management program to protect against unintentional releases.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.3**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.3, requiring the operation to implement a comprehensive water management programme to protect against unintentional releases.

Plutonic has developed and implemented comprehensive and probabilistic water balances for its cyanide operations.

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The water balances do not address solution application rates specifically as this is assumed to be included in the overall rate of tailings application to the Tailings Storage Facility (TSF) under the scope defined for the model. The model makes allowance for tailings deposition rates as-forecast over the model run period and also makes allowance for evaporation and seepage. Evaporation modelling can be simulated by selecting high, medium and low options. Based on topographical considerations, undiverted rainfall from upgradient areas has been excluded as a consideration of the model.

The model has the capacity to input actual data on power or other outages impacting the availability of pumped systems and this data is taken into account in the simulations.

Existing operating procedures incorporate inspection and monitoring activities to manage the risk of overtopping the TSFs and other impoundments including the process water dams in line with regulatory requirements.

TSFs and ponds are designed and operated with adequate freeboard above the maximum design storage capacity determined to be necessary from water balance calculations and regulatory requirements. A report is commissioned every year by an external consultancy to provide assurance that the facilities' construction and operation have continued in accordance with the original design and regulatory requirements. Plutonic has an on-site weather station that has been installed and calibrated by an external consultant. The Operation also has historical data for in excess of ten years. The data from the station is downloaded monthly and incorporated into the model at a minimum frequency of every six months. When readings are taken, the data from the weather station is cross checked with readings from a hand held weather monitor. The data used in the model is updated to a schedule as per the recommendations provided in the water balance manual.

**Standard of Practice 4.4: Implement measures to protect birds, other wildlife and livestock from adverse effects of cyanide process solutions.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.4**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.4, requiring the operation implement measures to protect birds, other wildlife and livestock from adverse effects of cyanide process solutions.

Plutonic has implemented measures to restrict access by wildlife and livestock to all open waters where WAD cyanide exceeds 50 mg/L WAD cyanide. WAD cyanide monitoring results during 2008 and 2009 indicated that only two water bodies (TSF 3 and the Process Water Pond) were present on site containing WAD cyanide in excess of 50 mg/L. Dogfish North Dogfish South, Callop, Catfish, Perch and TSF1 have been decommissioned leaving TSF 2 and TSF 3 as the only operational TSF facilities.

To restrict wild life access to the Process Water Pond, Plutonic recently installed bird netting over the entire pond. To address WAD cyanide levels within TSF 3, the operation installed a cyanide destruct facility in early 2009. Since early May 2009, daily WAD cyanide monitoring results for treated tailings have consistently been below 50 mg/L.

Maintaining a WAD cyanide concentration of 50 mg/L or less in open water has been shown to be effective in preventing significant wildlife mortality. Plutonic has a wildlife-monitoring programme in the form of daily TSF inspections that includes inspection and recording of wildlife status and activity in connection with

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cyanide-bearing water bodies. A review of the wildlife monitoring records indicated that significant wildlife mortalities have not been recorded since January 2008. Open sumps and trenches, which may contain cyanide in solution, are also monitored as part of the daily TSF inspections.

There are no heap leach facilities at Plutonic.

**Standard of Practice 4.5: Implement measures to protect fish and wildlife from direct or indirect discharges of cyanide process solutions to surface water.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.5**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Standard of Practice 4.5, requiring the operation implement measures to protect fish and wildlife from direct or indirect discharges of cyanide process solutions to surface water, is not applicable to Plutonic.

The operation does not have a direct or indirect discharge to surface water.

The site is located within a region that drains to the Gascoigne River System. The Gascoigne is an ephemeral river system only and the main course of the Gascoigne itself is around 70 km from the site to the west. The lower branch of the Gascoigne passes approximately 20 km north of the site and the course of a minor ephemeral tributary has its source approximately 5 km west of the site. There is also an ephemeral lake around 27 km from the site. Reportedly, there is no permanent water body within 200 km of the site.

Groundwater monitoring does not indicate that the operation is indirectly discharging to this ephemeral creek system.

**Standard of Practice 4.6: Implement measures designed to manage seepage from cyanide facilities to protect the beneficial uses of groundwater.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.6**

not in compliance with

not subject to

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.6, requiring the operation implement measures designed to manage seepage from cyanide facilities to protect the beneficial uses of groundwater

The operation's beneficial uses of groundwater are processing and beneficiation of metallic ore, mine dewatering and mining camp purposes. Processing and beneficiation of metallic ore is regulated through the sites Environmental Licence issued by the Department of Environment and Conservation (DEC) under the *Environmental Protection Act*. The abstraction of groundwater for dewatering, camp purposes and mineral ore processing is authorised under the sites Groundwater Well Licences.

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Tailings Storage Facilities 2 and 3 are the only operational tailings facilities on-site. The TSF is unlined and seepage is managed through perimeter seepage trenches. Groundwater surrounding the TSF, decommissioned TSFs and the Process Water Pond is monitored through a series of monitoring bores. Monitoring of the plant is undertaken via a downgradient groundwater sump at the main pit.

WAD cyanide concentrations in groundwater measured from monitoring bores and groundwater sumps are below levels that are protective of identified beneficial uses of groundwater.

The operation currently uses mill tailings as underground backfill and the operation has evaluated and implemented measures to protect the potential impacts to worker health and the beneficial uses of groundwater through report prepared by a consultant. Plutonic has also implemented a procedure for paste crews to monitor HCN gas on re-entry to backfilled areas.

**Standard of Practice 4.7: Provide spill prevention or containment measures for process tanks and pipelines.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.7**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.7 requiring that the operation provide spill prevention or containment measures for process tanks and pipelines.

The materials of construction used for primary containments at Plutonic conform to the standards generally recognised as suitable in the gold mining industry. The operation has recently completed capital works and significant repairs to ensure that its secondary containments provide effective barriers against seepage and capacity to hold the largest tank in any containment as well as pipe drainage and storm volumes. In doing so, it has verified that there are no ring beam foundations for higher cyanide strength tanks and has implemented a lysimeter-based leak detection system within the ring beams of lower cyanide strength tanks. There are also arrangements to contain pipeline leaks and to monitor for such leaks. These involve impermeable surfacing and periodic non-destructive testing where high strength leaks could occur and earthen bunding along low strength pipeline routes. Cyanide solutions collected within bunded areas and event ponds can be readily pumped back into the process. At both the Processing Plant and Paste Plant, there are release scenarios that could involve release of low strength solution to bare ground in the Event Ponds and there is an emergency response scenario to deal with that, including proper clean up of contaminated soil. The Plutonic facility is located well away from permanent surface water, so no special risk management measures are required to protect surface water.

**Standard of Practice 4.8: Implement quality control/quality assurance procedures to confirm that cyanide facilities are constructed according to accepted engineering standards and specifications.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.8**

not in compliance with

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**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.8 requiring that operations implement QA/QC procedures to confirm that cyanide facilities are constructed according to accepted engineering standards and specifications.

Under Western Australian legislation, an appropriately qualified person is required to report annually on the status and operation of active Tailings Storage Facilities and to conclude whether their continued operation within established parameters will protect against risks to health, safety and the environment. This includes the risks of cyanide exposures and releases. Such a report, referring to all available documentation, has been received and accepted by Plutonic for the period to December 2007 and the recommendations have been adopted. Tailings Storage Audit and Management Review reports to December 2008 were still being prepared at the time of the audit.

An Infrastructure Review by qualified engineers and scientists was prepared in April 2007 relating to most of the cyanide facilities then-existing at Plutonic concluding for nominated scope items their certification "that the (scope item) infrastructure review has been conducted in accordance with the requirement of ICMC SOP 4.8.5 and confirm that the facility is in a suitable condition for continued operation". Scope items for which certification was not provided were the Elution Storage Areas, the SAG Mill area on PP1 and other areas where cyanide solutions have been handled but which are now nominally decommissioned. Plutonic has completed works to replace the degraded assets in the Elution Area, repaired the SAG Mill footings and adjusted asset management practices where required. Qualified experts have reviewed the work including conducting QA/QC programs and made appropriate certifications. QA/QC programs were also applied to the recent construction of TSF3 and to the construction of new facilities such as the Cyanide Destruct Unit.

**Standard of Practice 4.9: Implement monitoring programs to evaluate the effects of cyanide use on wildlife, surface and groundwater quality.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 4.9**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 4.9 requiring that operations implement monitoring programs to evaluate the effects of cyanide use on wildlife, surface and groundwater quality.

The Operation has developed written Standard Procedures and Work Instructions for monitoring activities. These include groundwater, pit water, TSF return water and wildlife monitoring of cyanide-bearing water bodies.

All monitoring procedures were developed by Plutonic Environment Department personnel that have undergone tertiary education in the biological and scientific fields.

The procedures contain information on how and where samples should be taken, sample preservation techniques, Chain of Custody procedures, shipping instructions, and cyanide species to be analysed. Cyanide species and other parameters to be monitored are also nominated in the DEC Environmental Licence.

The field sheets prepared during the course of monitoring activities include records of the prevailing sampling conditions.

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The operation monitors WAD cyanide in groundwater downgradient of the TSFs, Process Water Pond and the plant site. There is no direct or indirect discharge to surface water.

Plutonic has a monitoring programme in the form of daily TSF inspections that includes the inspection for and recording of wildlife status and activity in connection with cyanide-bearing water bodies. All open water bodies with the potential to contain cyanide are monitored as part of the daily TSF inspections.

Monitoring is conducted at frequencies adequate to characterise the medium being monitored and to identify changes in a timely manner.

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**PRINCIPLE 5 – DECOMMISSIONING**

**Protect communities and the environment from cyanide through development and implementation of decommissioning plans for cyanide facilities**

**Standard of Practice 5.1: Plan and implement procedures for effective decommissioning of cyanide facilities to protect human health, wildlife and livestock.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 5.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 5.1 requiring that operations plan and implement procedures for effective decommissioning of cyanide facilities to protect human health, wildlife and livestock.

The operation has developed a Decontamination and Decommissioning Plan (DDP) detailing area specific cyanide decontamination and decommissioning plans. The DDP also details health and safety considerations.

The DDP includes an implementation schedule divided into monthly units and the planned tasks are scheduled up to 24 months prior to closure and continue for up to 24 months after closure.

The operation has established a system to review its decommissioning procedures for cyanide facilities during the life of the operation and revise them annually.

**Standard of Practice 5.2: Establish an assurance mechanism capable of fully funding cyanide related decommissioning activities.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 5.2**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 5.2 requiring that the operation establish an assurance mechanism capable of fully funding cyanide related decommissioning activities.

The estimated cost to fully decommission cyanide related infrastructure at Plutonic has been calculated by Barrick’s Regional Reclamation and Closure Manager and Plutonic’s former Environmental Superintendent. The cost estimate is sufficient to cover the items detailed within the Decontamination and Decommissioning Plan (DDP). The estimate was derived from third party equipment and labour rates.

The closure costs for each Barrick operation within Australia is calculated annually by Barrick’s Regional Reclamation and Closure Manager using the Barrick Reclamation Cost Estimator (BRCE) model. In addition to a formal annual review, the closure estimates are reviewed on a monthly basis by the Environmental Department and the BRCE model adjusted when necessary. When the closure cost is revised, the BRCE model is attached to an Annual Reclamation Obligation Adjustment form and submitted for internal review

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and approval by Plutonic's Environmental Manager and General Manager. The BRCE model is then submitted to Barrick Gold of Australia for review and approval by Regional Manager Environment, Regional Chief Financial Officer and Regional President.

The Western Australian Department of Mines and Petroleum (DMP) has established an Unconditional Performance Bond (UPB) system under Section 84 of the Mining Act.

Plutonic's cyanide facilities are currently spread across four tenements. The UPB attached to the tenements is more than the calculated cyanide decommissioning cost.

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**PRINCIPLE 6 – WORKER SAFETY**

**Protect Workers’ Health and Safety from Exposure to Cyanide**

**Standard of Practice 6.1: Identify potential cyanide exposure scenarios and take measures as necessary to eliminate, reduce and control them.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 6.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 6.1 requiring an operation to identify potential cyanide exposure scenarios and take measures as necessary to eliminate, reduce and control them.

The operation has a series of plans, procedures, forms and sampling documents for both the processing and for maintenance tasks in the Processing Plant Area relating to cyanide tasks.

The procedures require, where necessary, the use of personal protective equipment (PPE) and address pre-work inspections. All employees and contractors working on the site are required to undertake a field level risk assessment (FLRA) prior to undertaking any task. Training on the FLRA process is provided during Induction training and all contractors and employees are issued with FLRA pocket book detailing the procedure, risk assessment matrix and record sheets. The risk score obtained during the FLRA process requires different responses from workers:

The operation has a change management procedure to allow process and operational changes and modifications to be reviewed for their potential impacts on worker health and safety, and incorporate the necessary worker protection.

The operation does formally solicit and actively consider worker input in developing and evaluating health and safety procedures. This is done formally using the FLRA process and Environmental, Health and Safety Committee.

**Standard of Practice 6.2: Operate and monitor cyanide facilities to protect worker health and safety and periodically evaluate the effectiveness of health and safety measures.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 6.2**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 6.2 requiring Plutonic operate and monitor cyanide facilities to protect worker health and safety and periodically evaluates the effectiveness of health and safety measures.

The operation has established pH for the operation of the plant and has communicated this to Mill Operators who manually adjust the process input to maintain the pH between 9.6 and 10.

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Where the potential exists for significant cyanide exposure, the operation does use personal monitoring devices to confirm that controls are adequate to limit worker exposure to HCN gas. Personal HCN monitors use to conduct four hourly monitoring in the mill area with results recorded in the HCN Monitoring log for Process Plant 1 (PP1).

HCN monitoring equipment is maintained, tested and calibrated as directed by the manufacturer, and records retained for at least one year.

The operation has identified areas and activities where workers may be exposed to cyanide in excess of 10 ppm and require use of Personal Protective Equipment (PPE) in these areas or when performing these activities. Evacuation and sectioning off areas occurs if levels exceed 10 ppm and complete evacuation of the area if 20 ppm is reached.

Bulk sodium cyanide unloading and cyanide emergencies, have been identified to be high risk activities that require a high level of PPE whilst performing these tasks.

Signage at the cyanide storage and processing area stipulates that there is "No Eating and No Drinking In this Area". Eating and drinking is restricted to the control room.

Signage also identifies areas where showers, low-pressure eyewash stations and dry-powder fire extinguishers are located.

Unloading, storage, process tanks and piping containing cyanide were identified to alert workers of their contents, and the direction of cyanide flow in pipes designated.

MSDSs, first aid procedures and informational materials on cyanide safety were available in the language (English) of the workforce and are available in areas where cyanide is managed.

Although no cyanide related incidents relating to worker exposure were reported to date, however the mechanisms are in place for investigation and evaluation.

There is a scaled investigation system where all high potential incidents are investigated using the TapRoot investigation system.

One cyanide incident has been reported to date and at the time of the audit, the corrective actions were noted as being complete at the time of the audit.

**Standard of Practice 6.3: Develop and implement emergency response plans and procedures to respond to worker exposure to cyanide.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 6.3**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 6.3 requiring an operation develop and implement emergency response plans and procedures to respond to worker exposure to cyanide.

The operation has the necessary equipment to respond in the event of a worker's exposure to cyanide. There are adequate water, oxygen, and cyanide antidote kits, which are held in the Medical Centre.

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The operation does inspect its first aid equipment regularly and materials were stored and/or tested as directed by their manufacturer.

Cyanide antidote kits checks are included in the monthly drug checks for the medical centre.

There is a Cyanide Emergency Management Plan (CERP) that addresses cyanide emergencies, a cyanide detoxification procedures, environmental spill procedures, and there is also an Emergency Plan and a corporate Crisis Management Plan.

The operation does have its own on-site capability to provide first aid assistance to workers exposed to cyanide and there are arrangements with the Royal Flying Doctors Service (RFDS) for the transport workers exposed to cyanide to qualified off-site medical facilities. The RFDS were advised in writing of their responsibilities in the event of an emergency and a memorandum of understanding has been established. The provision of adequate equipment and expertise is also covered within the CERP which requires that the Cyanokits and the Protocol used to treat the patient are provided to the RFDS when they arrive to care for the patient.

Mock emergency drills are conducted periodically to test response procedures for, and lessons learned from the drills are incorporated into response planning, through debriefs.

The Emergency Response Team conduct drills on a weekly basis. Hazchem forms a significant part of the training. Cyanide scenarios from the CERP have been specifically included in these drills.

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**PRINCIPLE 7 – EMERGENCY RESPONSE**

**Protect Communities and the Environment through the Development of Emergency Response Strategies and Capabilities**

**Standard of Practice 7.1: Prepare detailed emergency response plans for potential cyanide releases.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 7.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 7.1 requiring an operation prepare detailed emergency response plans for potential cyanide releases.

The operation has developed specific written emergency response plans and procedures to respond to cyanide exposures. There are a series of documents that provide guidance for emergencies including transport, process, environmental and communities.

Planning for response to transportation related emergencies has considered transportation route(s) on-site with respect the physical and chemical form of the cyanide and road transport method of delivery.

The plans and procedures describe specific response actions (as appropriate for the anticipated emergencies such as clearing site personnel from the area of exposure and the use of cyanide antidotes and first aid measures).

**Standard of Practice 7.2: Involve site personnel and stakeholders in the planning process.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 7.2**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 7.2, requiring an operation involve site personnel and stakeholders in the planning process.

The operation engaged an external emergency management consultant to assist in the development of the CERP. The CERP was developed through evidence and collaboration from the cyanide supplier and Barrick employees.

Barrick have determined that there are no potentially affected communities in close proximity to Plutonic. Meekatharra is the nearest settlement approximately 185 km away. The workforce at Plutonic is considered to be the main group at risk from an on-site cyanide emergency as there are now down stream or nearby communities.

Plutonic is a remote site that is largely self reliant in the event of an emergency. The provision of cyanide antidote and patient transfer off the site can be done by the Royal Flying Doctor Service (RFDS). The RFDS

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were advised in writing of their responsibilities in the event of an emergency and a memorandum of understanding has been established between Barrick and the RFDS. Barrick also engaged RFDS in the development of the cyanide poisoning medical protocol.

The CERP review and revision process solicits and incorporate feedback from stakeholders listed within the plan.

**Standard of Practice 7.3: Designate appropriate personnel and commit necessary equipment and resources for emergency response.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 7.3**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 7.3 requiring an operation designate appropriate personnel and commit necessary equipment and resources for emergency response.

The elements of the CERP and procedures do:

- a) Designate primary and alternate emergency response coordinators whom have explicit authority to commit the resources necessary to implement the plan;
- b) Identify emergency response teams;
- c) Require appropriate training for emergency responders;
- d) Include call-out procedures and 24-hour contact information for the coordinators and response team members;
- e) Specify the duties and responsibilities of the coordinators and team members;
- f) List emergency response equipment, including personal protection gear, available along transportation routes and/or on-site;
- g) Include procedures to inspect emergency response equipment to ensure its availability; and
- h) Describe the role of outside responders, medical facilities and communities in the emergency response procedures.

**Standard of Practice 7.4: Develop procedures for internal and external emergency notification and reporting.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 7.4**

not in compliance with

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**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 7.4 requiring the development of procedures for internal and external emergency notification and reporting.

The Plan does include procedures and contact information for notifying management, regulatory agencies, outside response providers and medical facilities of the cyanide emergency.

The Barrick Crisis Management Plan, Emergency Procedure and CERP include procedures and contact information for notifying potentially affected communities of the cyanide related incident and any necessary response measures, and for communication with the media.

**Standard of Practice 7.5: Incorporate in response plans and remediation measures monitoring elements that account for the additional hazards of using cyanide treatment chemicals.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 7.5**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 7.5, requiring an operation develop procedures for internal and external emergency notification and reporting.

The CERP and associated procedures do describe specific remediation measures as appropriate for the likely cyanide release scenarios, such as:

- recovery or neutralisation of solutions or solids;
- decontamination of soils or other contaminated media;
- management and/or disposal of spill clean-up debris; and
- provision of an alternate drinking water supply.

The Plans prohibit the use of chemicals, such as sodium hypochlorite, ferrous sulphate and hydrogen peroxide to treat cyanide that has been released into surface water.

Section 6.0 of the CERP address the potential need for environmental monitoring to identify the extent and effects of a cyanide release, and include sampling methods, parameters and, where practical, possible sampling locations.

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**Standard of Practice 7.6: Periodically evaluate response procedures and capabilities and revise them as needed.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 7.6**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 7.6 requiring an operation periodically evaluate response procedures and capabilities and revise them as needed.

The operation has recently reviewed its emergency plan and developed a cyanide specific emergency response plan to compliment the existing related elements of its Emergency Procedure. Section 7.8 of the CERP provides that the plan is to be reviewed and revised following all cyanide related emergencies and drills (in the absence of incidents, review and revision should occur immediately after the mock cyanide drill) and revision information kept on file.

Formal mock emergency response drills based on cyanide scenarios in the CERP are conducted followed by debriefs with corrective actions.

No cyanide emergencies involving have been recorded to date.

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**PRINCIPLE 8 – TRAINING**

**Train Workers and Emergency Response Personnel to Manage Cyanide in a Safe and Environmentally Protective Manner**

**Standard of Practice 8.1: Train workers to understand the hazards associated with cyanide use.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 8.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 8.1 requiring an operation train workers to understand the hazards associated with cyanide use.

The operation does have training programs in cyanide hazard recognition for all personnel who may encounter cyanide. These have been reviewed recently and the entire workforce has been training or refreshed using the new training materials.

Personnel who may encounter cyanide in the normal course of their work undergo refresher training for Cyanide Awareness annually.

Competency training including tasks involving cyanide is also carried out.

Records of the Cyanide Awareness competency training and assessments are maintained in departmental files as hard copies.

**Standard of Practice 8.2: Train appropriate personnel to operate the facility according to systems and procedures that protect human health, the community and the environment.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 8.2**

not in compliance with

Plutonic is in FULL COMPLIANCE with Standard of Practice 8.2 requiring an operation train appropriate personnel to operate the facility according to systems and procedures that protect human health, the community and the environment.

The operation trains workers to perform their normal production tasks, including unloading, mixing, production and maintenance, with minimum risk to worker health and safety and in a manner that prevents unplanned cyanide releases. Formal competency training, which includes cyanide tasks, is run by the Production Superintendent for the Process Plant personnel, and the Senior Maintenance Supervisor for the maintenance personnel.

The Production Superintendent and Senior Maintenance Supervisor have conducted a training needs analysis and developed a training plan for staff development.

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Task Training, including cyanide related tasks, involves training personnel in Standard Work Instructions (SWI) and Procedures (SWP) for all tasks undertaken. The system is a mentoring system whereby a senior operator demonstrates and trains personnel in all relevant tasks. This is followed by a competency based assessment process. No one can work independently until they have been trained and assessed as competent.

The Production Superintendent and Senior Maintenance Supervisor are appropriately qualified to provide task training related to cyanide management activities.

Workers who may encounter cyanide are required to undergo Cyanide Awareness and task-specific training in cyanide-related tasks and to be assessed as competent to carry out those tasks prior to being allowed to work independently on those tasks.

Cyanide Awareness refresher training is schedule every year for those who work on cyanide-related tasks to maintain awareness of the principles of safe cyanide handling as we as awareness of cyanide hazards and symptoms of exposure. The operation evaluates the effectiveness of cyanide training and the competency-based training records are maintained in hard copy on file.

**Standard of Practice 8.3: Train appropriate workers and personnel to respond to worker exposures and environmental releases of cyanide.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 8.3**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 8.3 requiring an operation train appropriate workers and personnel to respond to worker exposures and environmental releases of cyanide.

All cyanide unloading, mixing, production and maintenance personnel are trained in the procedures to be followed if cyanide is released. The operation has a Cyanide Awareness training program provided at induction, with refresher training annually. The awareness training addresses cyanide releases as well as decontamination and First Aid response.

Formal competency training is conducted for standard work procedures. Several of these procedures deal with process upsets and how to deal with cyanide releases.

Treatment, Maintenance and Mining personnel receive cyanide awareness training, in which is presented. The cyanide awareness training is assessed and refresher training is conducted annually.

Emergency Response Coordinators and members of the ERT are trained in the procedures included in the CERP regarding cyanide, including the use of necessary response equipment. Cyanide training is a core competency for all ERT team members.

Pluonic is a remote site that is largely self reliant in the event of an emergency. The provision of cyanide antidote and patient transfer off the site can be done by the RFDS. The RFDS were advised in writing of their responsibilities in the event of an emergency and a memorandum of understanding has been established between Barrick and the RFDS.

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Records are retained documenting the cyanide training, including the names of the employee and the trainer, the date of training, the topics covered, and how the employee demonstrated an understanding of the training materials.

Refresher training for response to cyanide exposures and releases is conducted annually for all treatment and maintenance personnel.

The site maintains an ERT training matrix and training plan. On monthly training days, ERT members work through refresher training for a variety of training elements, including response to cyanide exposures and releases.

Cyanide mock drills conducted have included:

- 26 April 2008 – Large cyanide spill in reagent yard.
- 11 January 2009 – Large cyanide spill in reagent yard.

The scenarios include exposure and environmental release scenarios.

Mock drill debriefs conducted after all mock drills include evaluations from a training perspective and any corrective actions are tracked until they are closed out.

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## **PRINCIPLE 9 – DIALOGUE**

### **Engage in Public Consultation and Disclosure**

**Standard of Practice 9.1: Provide stakeholders the opportunity to communicate issues of concern.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 9.1**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 9.1 requiring an operation provide stakeholders the opportunity to communicate issues of concern

Plutonic has developed information packages regarding cyanide management practices and procedures and have created opportunities to interact with selected stakeholders, specifically employees and contractors.

The information packages direct any questions the reader may have to an email address (publicaffairsap@barrick.com) and provide additional links for cyanide information from Barrick (www.barrick.com) and the International Cyanide Management Institute (www.cyanidecode.org).

All employees, contractors and visitors are required to attend a General Site Induction, prior to working on the site. The Induction notes that cyanide is used on the site and invites questions. Barrick has developed a Cyanide Awareness training package that is delivered to all employees when they are attending their General Site Induction. Opportunity is provided during the presentation to field and answer questions from the participants.

The Plutonic Environmental Licence is renewed annually by the DEC. As part of the renewal process the DEC invites public comment on the conditions attached to the licence, through newspaper advertisements. The licence contains conditions relating to the management of cyanide and its constituents.

**Standard of Practice 9.2: Initiate dialogue describing cyanide management procedures and responsively address identified concerns.**

**in full compliance with**

The operation is

in substantial compliance with

**Standard of Practice 9.2**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 9.2 requiring an operation initiate dialogue describing cyanide management procedures and responsively address identified concerns

Plutonic has developed information packages regarding cyanide management practices and procedures and have created opportunities to interact with selected stakeholders, specifically employees, contractors and the Three Rivers Pastoral Station.

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Opportunities for interaction have been created for employees and contractors through the General Site Induction, Cyanide Awareness training and issuing information articles in quarterly newsletters. Opportunities and information are also provided through the Plutonic intranet site.

Three Rivers Pastoral Station has been engaged in consultation concerning cyanide as the mine is located within the boundaries of the pastoral lease. No consultation was undertaken with Marymia Pastoral Station as there are no cyanide operations occurring on that pastoral lease.

**Standard of Practice 9.3: Make appropriate operational and environmental information regarding cyanide available to stakeholders.**

in full compliance with

The operation is

in substantial compliance with

**Standard of Practice 9.3**

not in compliance with

**Summarise the basis for this Finding/Deficiencies Identified:**

Plutonic is in FULL COMPLIANCE with Standard of Practice 9.3 requiring an operation make appropriate operational and environmental information regarding cyanide available to stakeholders

Plutonic has developed information packages regarding cyanide management practices and procedures and have created opportunities to interact with selected stakeholders, specifically employees, contractors and tourists.

The illiterate proportion of the local population does not constitute a significant percentage of the stakeholders selected for consultation on cyanide and consequently, verbal dissemination of material is not considered warranted.

The operation has the mechanisms to make information publicly available on the cyanide release or exposure incidents, where applicable.

Plutonic has a Safety and Environment Incident Reporting and Investigation Procedure that ensures unplanned cyanide exposures and releases are investigated and reported by Plutonic. Plutonic is required to submit an Annual Environmental Report (AER) to the DEC and DMP on an annual basis. The AER details all environmental incidents that occurred on-site during the reporting period.

In addition to the AER, off-site spills for all Barrick operations are reported in the Company's Annual Responsibility Report. The Responsibility Report is available on the Barrick website and is issued to employees.

The Plutonic Emergency Response Manual requires appointed media liaison personnel to keep the media apprised of incident cyanide related incidents in accordance with procedure.

All mining operations within Western Australia are required to report serious occurrences and mining injuries to Department of Employment and Consumer Protection on designated forms.

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## Report Signature Page

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# APPENDIX A

## Limitations



## LIMITATIONS

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