February 2011

ICMI CERTIFICATION SUMMARY REPORT

Minera Barrick Misquichilca, Pierina Mine, Peru

Submitted to:
Barrick Gold Corporation
Av. Ricardo Lyon 222 Piso 8
Providencia Santiago
Chile

Report Number. 10514150164.500/B.1
Distribution:
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1.0 SUMMARY AUDIT REPORT FOR GOLD MINING OPERATIONS

Name of Mine: Pierina Mine
Name of Mine Owner: Minera Barrick Misquichilca SA
Name of Mine Operator: Minera Barrick Misquichilca SA
Name of Responsible Manager: Cecilia Melgarjeo
Address: Urb. La Alborada Tarica Calle 8 N°. 810
State/Province: Huaraz-Tarica
Country: Peru
Telephone: +51-1 612 4100
Fax: +51-1 612 3301
E-Mail: scruz@barrick.com

2.0 LOCATION DETAIL AND DESCRIPTION OF OPERATION

The Pierina Mine (Pierina) is located in the District of Jangas, Province of Huaraz, Department of Ancash in the Cordillera Negra of the Andes Mountains, in the north-central part of Peru, approximately 10 kilometers to the northwest of the city of Huaraz. Pierina is located at an elevation ranging from 3,800 to 4,100 meters.

The mine is accessed by road from the town of Jangas (16 kilometers), north of Huaraz. The mining facilities are located within the Rio Santa Basin and sub-basins, all of which drain to the east into the Rio Santa. Pierina is located across a deep valley from the Huascarán National Park, which is located in the Cordillera Blanca of the Andes and is a designated UNESCO Natural Heritage site. The mine has no direct or indirect impact on the Park. The climate in the project area is characterized by defined rainy and dry seasons. The rainy season extends from November to April when approximately 1 meter (m) of rainfall occurs.

Pierina is comprised of an open pit mine, a waste rock storage area, a valley-fill heap leaching facility, process and storm water pond system, acid rock drainage treatment plant, barren solution treatment plant using hydrogen peroxide, and a Merrill Crowe processing plant to recover gold, silver and mercury as a by-product. The open pit has been developed by conventional mining methods using trucks and loaders to extract gold-bearing ore. The waste is transported by trucks to a storage area designed specifically for this purpose. Ore is placed on the valley fill heap leach facility by truck. The valley fill heap leach facility is fully lined with geomembrane and employs a cross-valley dam to impound pregnant process solutions within the placed ore. Gold is recovered using conventional methods of heap leaching with dilute sodium cyanide solution. The auxiliary facilities required for the mining operation include administration offices and buildings, laboratories, warehouses, maintenance shops, emergency facilities, electric power distribution, water supply, roads, fuel and reagent storage tanks, drainage structures, and explosive storage areas. Once the ore has been extracted and processed, all the Pierina facilities except those necessary for continuous environmental protection will be closed and rehabilitated.

Pierina uses a Merrill Crowe process to recover the gold and silver from the pregnant leach solution. Pierina has two secure cyanide storage areas: 1) solid sodium cyanide box warehouse, and 2) liquid mixing and storage area. Pierina has developed and implemented a number of operational procedures for the safe storage, handling and mixing of solid sodium cyanide briquettes into high-strength cyanide solution. The cyanide storage mixing and storage tanks are under a roof and within concrete containments with spill collection sumps. The area has appropriate ventilation and hydrogen cyanide (HCN) monitoring, and high-
level alarms to prevent overfilling. Cyanide is added to the pregnant solution line prior to the Merrill Crowe processing. pH control is maintained by adding lime to the heap leach ore. Pierina stores and manages sodium cyanide in engineered tanks, pipelines and lined ponds constructed under appropriate quality control and quality assurance programs. Pierina employees are trained in cyanide hazards and first aid, first response, emergency response, and specific operational tasks. Pierina facilities are fenced to preclude wildlife and livestock from entering cyanide process areas. Pierina employs comprehensive inspection and preventive maintenance programs to assure that all cyanide equipment and facilities are functioning as designed and to monitor process solutions. Pierina has developed closure and reclamation plans and procedures to complete the appropriate management of cyanide solutions and solids, and the decontamination of cyanide pipelines and equipment.

Understanding and managing the process water balance is a critical function at Pierina because of the relatively high precipitation occurring in a well-defined rainy season. Pierina has developed and implemented a comprehensive process water balance program that includes monitoring and regular updates to track and plan water management activities. Pierina uses "raincoats" on the valley fill heap leach facility to minimize infiltration of rainfall on inactive portions of the heap. The raincoants are high-density polyethylene (HDPE) geomembrane covers that convey clean precipitation to the storm water management system.

Pierina receives solid sodium cyanide from DuPont De Nemours & Co., Inc. (DuPont) delivered to the site in the original sea containers. The sodium cyanide supply chain is managed by DuPont, a signatory company to the Code and certified as compliant with the Code by third-party auditors. Pierina has an emergency response team that is trained to respond to onsite fires, chemical spills and worker exposures to cyanide. Pierina works with local community emergency responders to assure that adequate resources are available to address both offsite and onsite emergencies.
SUMMARY AUDIT REPORT
Auditors Findings

☒ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

☒ in full compliance with

The International Cyanide Management Code

Audit Company: Golder Associates
Audit Team Leader: Alistair Cadden, Lead Auditor and Gold Mining Technical Specialist
Email: acadden@golder.com

Name of Other Auditors
Sophie Whoolor, Auditor (Lead Auditor Approved)
Ivon Aguinaga, Auditor and Gold Mining Technical Specialist

Dates of Audit
The Certification Gold Mining Operations Verification Audit was undertaken within four days (twelve person-days) between 27th and 30th September 2010.

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 Verification Protocol for Gold Mining Operations and using standard and accepted practices for health, safety and environmental audits.

Pierina Gold Mine
Name of Facility
Signature of Lead Auditor
09 February 2011
Date

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PRINCIPLE 1 – PRODUCTION
Encourage Responsible Cyanide Manufacturing by Purchasing from Manufacturers that Operate in a Safe and Environmentally Protective Manner

Production 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

☐ not in compliance with

Production Practice 1.1

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Standard of Practice 1.1, which requires that the site encourage responsible cyanide manufacturing by purchasing from manufacturers that operate in a safe and environmentally protective manner.

Pierina was certified as fully compliant with the cyanide code October 02, 2007.

Up until December 31, 2008, Pierina purchased cyanide from Dupont, which was certified as fully compliant April 05, 2006.

From January 01, 2009 Pierina has purchased cyanide from Orica. Schedule E Clause 18 of the cyanide supply contract between Orica and Pierina requires that Orica maintain full compliance with the International Cyanide Management Code. Orica’s Yarwun plant was originally certified as code compliant on November 28, 2006 and was recertified as code compliant on March 17, 2010.
PRINCIPLE 2 – TRANSPORTATION

Protect Communities and the Environment during Cyanide Transport

Transport 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

☐ in substantial compliance with
☐ not in compliance with

Transport Practice 2.1

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Standard of Practice 2.1 which requires that the site establish clear lines of responsibility for safety, security, release prevention, training and emergency response in written agreements with producers, distributors and transporters.

Pierina was found to be fully compliant with the Code in 2007 when it purchased cyanide from Dupont, which was transported to site by Transportes Rodrigo Carranza S.A.C. On January 01, 2009 Pierina changed supplier to Orica.

The cyanide purchase contract specifies that Orica is responsible for transport of NaCN from the Yarwun plant to the mine site, and that responsibilities for code compliance extends to all subcontractors.

Clause 13.1 Orica is responsible for itself and its subcontractors, including transportation for code compliance.

Clause 13.2 manufacturing, handling, storing, packaging labelling, transporting and emergency response.

The Third Party Detailed Audit Report of the Supply Chain from the Port of Brisbane to the mine site (dated February 2009) was found to be fully compliant with the code.

Stiglich Transportes SA was certified as code compliant May 27, 2010.

Transport 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

☐ in substantial compliance with
☐ not in compliance with

Transport Practice 2.2

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with the Standard of Practice 2.2 which requires the mine protect communities and the environment during cyanide transport.

The entire supply chain is either fully compliant with the code or has been assessed as such through a third party code equivalent due diligence audit.

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The section from Yarwun to Port of Brisbane was certified as fully compliant September 05, 2010. Prior to this date it was assessed as being fully compliant by a code equivalent third party audit, dated March 2007. The supply chain from Port of Brisbane to the mine was assessed as fully compliant by a third party code equivalent audit dated December 2008. The current transporter, Stiglich, was certified as fully compliant with the code May 27, 2010.

Before January 01, 2009, cyanide was transported by DuPont/Carranza, and was found to be fully compliant with the code in the original certification audit dated October 2007.

Stiglich maintains an emergency response plan that has been updated a number of times. The auditors reviewed 'Plan de Contingencia para el transporte de cianuro de sodio de Stiglich Transportes SA para Minera Barrick Misquichilca 'Pierina' Rev 04, November 19, 2009'.

The documentation sent with the cyanide consignments verifies that the approved supply chain routes are being used.
PRINCIPLE 3 – HANDLING AND STORAGE
Protect Workers and the Environment during Cyanide Handling and Storage

Handling and Storage
Practice 3.1: Design and construct unloading, storage and mixing facilities consistent with sound, accepted engineering practices, quality assurance procedures, spill prevention and spill containment measures.

☑ in full compliance with

The operation is
☐ in substantial compliance with Handling and Storage Practice 3.1
☐ not in compliance with

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Handling and Storage Practice 3.1, requiring that cyanide handling and storage facilities are designed and constructed consistent with sound, accepted engineering practices, quality assurance/quality control (QA/QC) procedures, spill prevention and spill containment measures.

Pierina has a solid sodium cyanide warehouse where one-ton "bag in box" containers are stored. The solid sodium cyanide briquettes are mixed with barren solution in cyanide mixing and storage tanks within the Merrill Crowe plant building. The design and construction of the cyanide warehouse, mixing and storage facilities have been completed appropriately as documented in final design and construction drawings prepared by qualified Professional Engineers. The cyanide warehouse, mixing and storage facility quality control and assurance procedures and documentation include construction level drawings with detailed specifications noting foundation compaction and concrete reinforcement, and piping and tankage materials. The cyanide solution storage tanks each have a high-level alarm and level indicator. The unloading and storage areas are located away from public access and no surface water bodies are nearby. The solid cyanide warehouse storage facility has adequate ventilation, is located within a secure and roof-covered building. The cyanide mixing and storage area is also a secure locked room within the larger Merrill Crowe plant building with adequate fan driven ventilation. During unloading and mixing, traffic and access is controlled by the operators with warning cones. The cyanide warehouse and the mixing and storage areas are within concrete containment to contain releases and precipitation that may contact cyanide.

Handling and Storage
Practice 3.2: Operate unloading storage and mixing facilities using inspections, preventative maintenance and contingency plans to prevent or contain releases and control and respond to worker exposures.

☑ in full compliance with

The operation is
☐ in substantial compliance with Handling and Storage Practice 3.2
☐ not in compliance with

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Handling and Storage 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.

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Pierina has developed and implements procedures to prevent exposure and releases of cyanide during unloading, stacking, mixing and storage, and processing. The SOPs include operation of critical valves and pumps, handling of cyanide containers, spill cleanup during the mixing, appropriate PPE and the management and disposal of the empty bags and boxes. Pierina prohibits using the empty bags and boxes for other purposes. In addition, the procedures require that cyanide boxes be stacked no more than three high during unloading of trucks or within the warehouse. The procedures also require that all cyanide mixing be completed under the observation by another qualified operator or by video observation by the control room. Pierina uses inspection forms and a preventative maintenance program that identifies and tracks all maintenance activities at the unloading and the storage warehouse and tank areas.
PRINCIPLE 4 – OPERATIONS
Manage Cyanide Process Solutions and Waste Streams to Protect Human Health and the Environment

Operations Practice 4.1: Implement management and operating systems designed to protect human health and the environment including contingency planning and inspection and preventative maintenance procedures.

☒ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Operations Practice 4.1

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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.

Pierina has operating plans and SOPs that describe the management and operation of the cyanide facilities (e.g., the Merrill Crowe Plant, the Leach Pad Facility and the cyanide destruction treatment plant). These plans and procedures cover the safe operation of the entire cyanide management facilities. The SOPs and operating plans were found to have adequate contingency planning, routine inspections, and a preventive maintenance program. SOPs address all the cyanide management tasks such as unloading and storage of cyanide boxes, mixing of liquid cyanide, cleaning and disposal of cyanide bags and boxes, management of the ore placement and heap leach operations, and operation of the cyanide destruct circuit. Pierina has established inspection frequency on a daily shift, weekly and monthly basis. These inspections are sufficient to assure and document that they are functioning with the design parameters. Contingency planning documents have been developed and implemented to support the process solution and pond management, control of solution inventory during power failure, and extreme rainfall events. Pierina has backup generators to ensure that essential process equipment and systems continue to operate during power failures and conducts inspections that include regular testing of the backup power generator. Pierina uses a computer based preventive maintenance system, Oracle®, to identify, issue work orders and document all preventive maintenance activities.

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

☒ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Operations Practice 4.2

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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.

This Standard of Practice is not applicable at Pierina which does not have a milling facility and only uses heap leach technology.

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Operations Practice 4.3: Implement a comprehensive water management programme to protect against unintentional releases.

☐ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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.

Pierina has developed a comprehensive and probabilistic water balance that addresses the uncertainty and variability of climatic data to prevent overtopping of the process facilities. Process facility inspection procedures and data collection programs have been implemented to update the water balance model on a regular basis. Daily shift inspections include process flows, pond levels and available freeboard monitoring that can be incorporated into the water balance model and operational planning to prevent potential overtopping. Pierina measures precipitation and evaporation for incorporation into the water balance for calibration and evaluation. The water balance is updated on an as needed basis to support tracking and evaluation of the system to prevent overtopping and discharge.

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

☐ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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.

Pierina has two heap leach process ponds and one conveyance ditch containing process solution with WAD cyanide concentrations at or above 50 mg/L. All three of these solution areas are netted to protect bird and wildlife exposure. Pierina’s other wildlife protection facilities include a perimeter fence around the entire heap leach and processing area. During periods of high rainfall, ponding on the surface of the heap leach facility is controlled by the placement of netting frames, reduction of solution application or by shutting down solution application in the ponding areas. Excess barren process solution can be treated at the cyanide destruction plant and discharged. No cyanide-related wildlife mortalities have occurred at the site since the Initial Certification Audit.
Operations 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

☐ in substantial compliance with ☐ not in compliance with

Operations Practice 4.5

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with 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.

Pierina is designed and operated for zero-discharge of process fluids unless treated for discharge under Peruvian regulations. Pierina has a discharge authorization that allows the operation to discharge up to 378,000 m³ per year at or below WAD cyanide concentration required by Peruvian regulations. Pierina conducts monitoring to characterize the seepage collection system, leak detection system, and surface water and groundwater quality. Pierina has discharged treated process water during some days in 2008, 2009 and 2010 in response to high rainfall conditions. Monitoring information indicates there is no impact to groundwater or surface water quality from the heap leach operations and processing facilities. Spill prevention and emergency response plans have been developed to comply with the zero-discharge operating requirements.

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

☒ in full compliance with

☐ in substantial compliance with ☐ not in compliance with

Operations Practice 4.6

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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 Pierina heap leach and processing facilities are designed and operated to protect groundwater resources. The project cyanide facilities include a number of seepage control technologies, including: double geomembrane liner systems below the in-heap solution storage and process ponds with leak detection and leak collection systems; composite liner under the heap leach facility outside the impoundment area; and concrete containments in process areas to protect the beneficial water use. Pierina completes weekly monitoring of the leak detection systems and quarterly water quality sampling and analysis of a groundwater monitoring network.
Operations Practice 4.7: Provide spill prevention or containment measures for process tanks and pipelines.

☑ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Operations Practice 4.7

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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 Pierina operation has secondary curbed or walled concrete containments for all cyanide storage and processing areas. Other secondary containments include geomembrane-lined channels for process solution pipelines. The secondary containments in the cyanide processing areas have been designed to contain at least 110% of the largest tank volume and the 100-year, 24-hour storm event. Secondary containments in the cyanide mixing room and process areas have automated pumping systems for collection and management of process leakage. SOPs have been developed to address management of spill response and clean-up within the containments. Review of the operation indicates that all tanks, piping and containments are constructed of materials appropriate for handling high pH cyanide solutions.

Operations 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

☐ in substantial compliance with

☐ not in compliance with

Operations Practice 4.8

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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.

Pierina has implemented QC/QA programs for all earthworks projects related to tank foundations, compacted subgrades, clay liners, geomembrane liners for ponds and heap leach facilities. These QC/QA reports include information on subgrade preparation, grading, soil liner material properties and compaction characteristics, leak detection construction, solution collection piping, geomembrane liner seams and testing. The reports include copies of the field inspection reports, lab and field data, construction observations, and photographs. Pierina has retained qualified engineering personnel to review and provide construction verification documentation. The QC/QA reports are all prepared by qualified engineering companies Pierina maintains copies of all QC/QA documentation onsite.

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

☑ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Operations Practice 4.9

Summarise the basis for this Finding/Deficiencies Identified:

The operation 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.

Pierina has environmental monitoring programs developed to evaluate the performance of the cyanide management systems on wildlife, process ponds, leak detection systems, and surface and groundwater quality. The environmental programs have been prepared and approved by qualified professionals and implemented by qualified personnel. The plans have also been reviewed and approved by MEM. The plans include all appropriate sampling and analysis documentation.
PRINCIPLE 5 – DECOMMISSIONING
Protect Communities and the Environment from Cyanide through Development and Implementation of Decommissioning Plans for Cyanide Facilities.

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

☐ in full compliance with

☐ in substantial compliance with ☐ in compliance with

Decommissioning Practice 5.1

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Standard of Practice 5.1, which requires that the site plan and implement procedures for effective decommissioning of cyanide facilities to protect human health, wildlife and livestock.

A closure plan developed by Vector Peru submitted to Peruvian authorities 2006. This was approved 2009 with a requirement to start work within 3 years. This was reviewed in the 2007 compliance audit and has not subsequently changed.

Pierina also updates its decommissioning plan annually as part of the Barrick corporate Asset Retirement Obligation (ARO) reporting standards.

The mine closure plan includes GANTT charts for the closure planning, closure works and post closure periods. These incorporate the activities relevant for a comprehensive mine closure plan such as rehabilitation of the heap leach piles, plant demolition and ongoing monitoring and maintenance works.

The mine updates its ARO each year and updates the budget and schedule as necessary. In 2008 the budget increased by USD 6.4 million and in 2009 by a further USD 1.5 million.

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

☐ in full compliance with

☐ in substantial compliance with ☐ in compliance with

Decommissioning Practice 5.2

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with the Standard of Practice 5.2 which requires that the site establish an assurance mechanism capable of fully funding cyanide related decommissioning activities.

An initial cost estimate for third party implementation of the closure plan was developed by Vector Engineering Peru. This has subsequently been updated annually as part of the ARO. The prices for the works are obtained from contractors by the Logistics department and these prices are used by the closure planners to update the budgets estimates.

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The mine updates the ARO annually using third party contractor prices for the works.

The approval of the closure plan by the Peruvian Authorities (Ministerio de Energía y Minas) requires that the mine provide an irrevocable letter of credit for the closure works. The mine has provided such a letter of credit as required by the Peruvian authorities.
PRINCIPLE 6 – WORKER SAFETY
Protect Workers’ Health and Safety from Exposure to Cyanide

Worker Safety 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

☐ not in compliance with

Worker Safety Practice 6.1

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Standard of Practice 6.1 which requires that the site has developed procedures describing how cyanide-related tasks such as unloading, mixing plant operations, entry into confined spaces, and equipment decontamination prior to maintenance should be conducted to minimise worker exposure.

Pierina has operating plans and procedures that describe the management and operation of the cyanide facilities. These plans and procedures cover the safe operation of the entire cyanide management facilities. These procedures are detailed in the documents referenced in the evidence observed section.

All workers undergo site specific inductions highlighting the presence of cyanide at the site.

The procedures detail the risks involved with each task and adequately describe safe work practices. Task specific personal protective equipment (PPE) requirements are stated in each standard operating procedure. The procedures have been updated as required and at regular intervals during the past three years since initial certification.

Pierina solicits worker input in developing and evaluating health and safety procedures via an intranet-based suggestion box.

Worker Safety 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

☐ not in compliance with

Worker Safety Practice 6.2

Summarise the basis for this Finding/Deficiencies Identified:

The operation is in full compliance with Standard of Practice 6.2 which requires that the site operate and monitor cyanide facilities to protect worker health and safety and periodically evaluate the effectiveness of health and safety measures.

Pierina has determined the appropriate pH of the operation of the plant. For example, the document titled Preparation of Cyanide in the Merrill Crowe Plant (Instructivo OI-Pr-273-Preparación de CN) provides the procedure to verify that the pH of the barren solution is 9.8 or higher prior to mixing cyanide.
Automatic sensors for HCN gas are located inside the cyanide mixing room and the refinery and are monitored continuously in the process plant control room. The monitors have a digital readout and a low level and high-level alarm system. In addition to an audible alarm, there are warning lights and an alarm display in the control room. The low level and high-level alarm settings are 4.7 ppm and 10 ppm, respectively.

The procedure for entering the cyanide storage building includes using a hand-held portable monitor to verify that HCN levels are safe prior to entering the building. HCN levels at the leach pad are monitored twice a week.

Pierina has identified cyanide risk areas and provided maps showing areas with varying HCN levels around the mine site and process plant. High-risk areas are identified in an employee induction presentation given to all workers.

Pierina has fixed cyanide gas detection monitors (TOXGARD) in the cyanide mixing room and the refinery. These monitors are calibrated monthly by the maintenance department who are trained and certified by the safety company called MSA and records are held for a minimum of one year. Certificates for Mine Safety Appliance testing for four maintenance staff were reviewed.

Pierina uses 4 personal hand-held HCN monitors which are calibrated by MSA, annually, according to the manufacturer’s specification. Calibration certificates were reviewed and all monitors were found to be in calibration.

Warning signs are posted in areas where cyanide is used to alert workers that cyanide is present, that smoking, open flames, eating and drinking are not allowed and that the necessary cyanide-specific PPE must be worn.

Showers, low pressure eye wash stations and non acidic sodium bicarbonate fire extinguishers are located at strategic locations throughout the operation including the cyanide storage building, refinery, and process plant and are maintained, inspected and tested.

Pipes containing cyanide are marked as containing cyanide solution and show flow direction. Pierina also uses a colour-coded piping system to further identify pregnant solution, barren solution, makeup water, etc. The cyanide storage, mixing and process tanks are marked as containing cyanide and include hazardous material risk diagrams and signage for confined areas at the tank entry points.

First aid instructions for cyanide exposure are in each first aid kit, which are located in areas where reagent grade cyanide is handled and in the process control room. MSDS are provided and emergency response actions posted in strategic areas of the process plant. The information is in Spanish, the language of the workforce.

Pierina uses the TapRoot tracking system, which allows a safety incident and near miss to be recorded, evaluated and followed through to remediation. The system allows Pierina and Barrick to evaluate any potential trends of incidents and determine if changes are required in the operation’s programs and procedures.
Worker Safety Practice 6.3: Develop and implement emergency response plans and procedures to respond to worker exposure to cyanide.

☐ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Worker Safety Practice 6.3

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 6.3 that requires that the site develop and implement emergency response plans and procedures to respond to worker exposure to cyanide.

Water, oxygen, resuscitator, antidote kits and a radio, telephone, alarm system or other means of communication or emergency response are readily available at the Pierina mine. The operation has 6 antidote kits which are located in the mine clinic (3 contain amyl nitrate, sodium nitrate and thioulsphate) and three have the same without the amyl nitrate. The amyl nitrate parts of each of the kits are kept in the process control room, the refinery and the leach pad.

The first aid and antidote kits are checked on a daily basis by the Occupational Health Department for completeness, to ensure there is adequate oxygen in the cylinders, the condition of the rubber on the resuscitator masks and the temperature the kits are stored at. Manufacturer’s guidelines recommend the kits are kept at a temperature between 20 – 25 degrees centigrade.

The Site has an Emergency Pre-Plan which details emergency response to actions which involve the use of cyanide. Additionally Pierina posts emergency procedures at strategic locations throughout the plant.

Pierina has two medical centres. One on the mine site is the first point of call. The second off-site centre is a larger centre that includes x-ray, laboratory, pharmacy and an emergency room.

Pierina has four physicians and two emergency response specialists (medically trained). At any one time there would be one doctor and one nurse (emergency response specialists on the mine. The Head of the medical centre and one doctor and one nurse would be at the off-Site medical centre.

Patients affected by cyanide would be referred to either San Pablos Clinic or Victor Ramos Guardia Hospital, both located in the town of Huaraz. The Patient Evacuation procedure details how a patient is removed by on-site ambulance to one of these facilities. A medical practitioner would travel with the patient. Pierina has a fully equipped ambulance unit located onsite. Pierina has established formalized arrangements with the medical facilities located in Huaraz regarding the potential to treat patients for cyanide exposure. Pierina has determined that the facilities have adequate, qualified staff, equipment and expertise to respond effectively. Every year the medical manager visits both off-site medical facilities to assess the facilities and the understanding of the staff for the treatment of patients exposed to cyanide. A letter is written to the hospital stating that the mine is satisfied with the facilities they have. The letter is signed by the hospital and returned to Pierina.

Mock drills have taken place regularly. The records of the drills have been retained. Those for the drills in 2008 and 2009 and May 2010 were examined. The drill scenario in 2008 was an incident involving a worker being exposed to cyanide preparation in the process plant. In 2009 the drill scenario was emergency response to a worker contaminated with cyanide solution in the Merrill Crowe area. In 2010 the drill scenarios were an evacuation following an earthquake and a cyanide transport incident.
PRINCIPLE 7 – EMERGENCY RESPONSE

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

Emergency Response Practice 7.1: Prepare detailed emergency response plans for potential cyanide releases.

☒ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Emergency Response Practice 7.1

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 7.1 which requires that the site prepare detailed emergency response plans for potential cyanide releases.

The operation has a written emergency response plan (ERP). The ERP has a section called Response Procedures, part of this is a procedure for cyanide. A number of pre-plans for specific emergency scenarios form the appendices to this plan, including:

- Pre-Plan Emergencia Cuarto de Preparación de Cianuro PP-01 (Cyanide Preparation Room Emergency Pre Plan);
- Pre-Plan Emergencias Planta Merrill-Crowe PP-06 (Merril Crowe Emergency Pre Plan);
- Pre-Plan Emergencia Planta de Refineria PP-07 (Refinery Emergency Pre Plan); and
- Pre-Plan de Emergencia Almacen de Cianuro PP-17 (Cyanide Storage Facility Emergency Pre Plan).

Transportation of cyanide is by Code compliant transporters who have detailed emergency response plans for transportation accidents.

The ERP covers specific response action such as evacuating the local population. Including seeking support from the police and other government organisations including the government department Instituto Nacional de Defensa Civil (INDECI).

Emergency Response Practice 7.2: Involve site personnel and stakeholders in the planning process.

☒ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Emergency Response Practice 7.2

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 7.2 which requires that the site involve site personnel and stakeholders in the planning process.

______________________________
Signature of Lead Auditor

09 February 2011
Date
Every year approximately 10 meetings take place relating to emergency subjects. One of the meetings relates to the updating of the ERP. In this meeting there are representatives from all areas of the operation (such as mining, technical services, environmental, construction and process). They are able to make suggestions for improvement to the ERP.

Every two years Pierina organises a talk where they invite stakeholders (fire fighters, police, government department INDECI, and hospitals) and give a presentation on the emergency plan where comments can be made. The last one was held in June 2010.

Pierina holds information talks with the local communities (Atupa, Cuncashca, Jangas, Mareniyoc, Mataquita). These talks are undertaken approximately every 2 years. The talks include awareness and preparation for emergencies at a local level (APELL) and include what the local communities should know about cyanide.

**Emergency Response 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
- [ ] not in compliance with

**Emergency Response Practice 7.3**

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

Pierina is in full compliance with Standard of Practice 7.3 which requires that the site designate appropriate personnel and commit necessary equipment and resources for emergency response.

The ERP details a chain of command and has contact details for all emergency response personnel who are appropriately trained. Emergency response training is a requirement to be on the emergency response team. The contact lists are updated regularly. The ERP gives detail of roles and responsibilities, and lists the equipment necessary. The equipment is checked regularly and records are kept on site. These were verified by the auditors.

The roles of outside responders such as the police, INDECI and local hospitals are defined within the ERP. Communities have been made aware of their responsibilities through the APELL program.

**Emergency Response Practice 7.4:**
Develop procedures for internal and external emergency notification and reporting.

- ☒ in full compliance with

**The operation is**

- [ ] in substantial compliance with
- [ ] not in compliance with

**Emergency Response Practice 7.4**

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

Pierina is in full compliance with Standard of Practice 7.4 which requires that the site develop procedures for internal and external emergency notification and reporting.

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**Pierina Gold Mines**

Name of Facility

[Signature of Lead Auditor]

09 February 2011

Date

February 2011

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The ERP details regulatory authorities' and outside responders' contact details as follows: Government Mining Department, Government Health Department, Civil Defence Department, Huaraz Fire Department, Caraz Fire Department, Government Department for Permitting Explosives, Regional Police (XIII Regional Division), OSINERGMIN (Organismo Supervisor de la Inversion en Energia y Mineria) (Supervisory Body in the Investment in Energy and Mining), the Attorney General's office, Jangas Local Government, Hidrandina-Huallanca (Pierina's electricity provider), Environmental Affairs General Division of Peru and Regional Director of Transportation and Communication.

The ERP has contact information for village authorities within the area of influence. It includes contact names of staff, their positions and phone numbers. The Response Procedures determines that if surface waters are contaminated with cyanide then the incident is considered a 'high' level incident, and details give a number of communication steps to be taken which include of when to contact local communities.

As part of the ERP Pierina has a section titled 'Roles and responsibilities for community relations and the media'. This specifies a chain of command for media relations.

**Emergency Response 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
☐ not in compliance with

Emergency Response Practice 7.5

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

Pierina is in full compliance with Standard of Practice 7.5 which requires that the site incorporate in response plans and remediation measures monitoring elements that account for the additional hazards of using cyanide treatment chemicals.

The ERP and the Cyanide Spill Management Procedure indicate that dry cyanide spills are to be covered with an impermeable plastic sheet and shovelled and/or swept into a drum or suitable container, thus keeping the spilled material dry. The spill area must be flushed with a dilute solution of sodium hypochlorite. Sodium hypochlorite is to be used only in cases where the solution is contained. The ERP and related procedures require cyanide contaminated soils to be disposed of in the heap leach pad facility and solutions to be pumped to the Merrill Crowe Plant. If solutions are contaminated with solids then they are disposed of in the heap leach pad facility. Pierina has procedures in place to provide bottled water as an alternate drinking water supply.

The ERP clearly prohibits the use of sodium hypochlorite, ferrous sulphate and hydrogen peroxide to treat surface waters.

Heap leach operations manual gives details of the requirement to take samples up-stream and down-stream of a cyanide related incident. The Procedure for emergency soil sampling details the soil analysis that will be undertaken, the sampling methodologies and parameters.
Emergency Response Practice 7.6:

Periodically evaluate response procedures and capabilities and revise them as needed.

☐ in full compliance with

☐ in substantial compliance with

☐ not in compliance with

Emergency Response Practice 7.6

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 7.6 which requires that the site periodically evaluate response procedures and capabilities and revise them as needed.

The Emergency Pre-Plan states that it is Pierina's Policy to update the Environmental Response Plan every 2 years. The updating of the Procedures will take place after mock drills have taken place or after an actual incident.

Mock drills are conducted regularly as part of the Emergency Response Plan.

Two mock drills have taken place in 2010, in May and August. One drill took place on December 11, 2009 and one drill took place on November 25, 2008.

The records of the drills have been retained and the record for the drill in 2008 and 2009 and May 2010 were examined in detail. The drill scenario in 2008 was an incident involving a worker being exposed to cyanide preparation in the process plant. In 2009 the drill scenario was response to a worker contaminated with cyanide. In 2010 the drill scenarios were an evacuation following an earthquake and a cyanide transport incident. The response plans have been updated subsequent to the evaluation of the drills.
PRINCIPLE 8 – TRAINING
Train Workers and Emergency Response Personnel to Manage Cyanide in a Safe and Environmentally Protective Manner

Training Practice 8.1: Train workers to understand the hazards associated with cyanide use.
- in full compliance with
- The operation is
  - in substantial compliance with
  - not in compliance with

Training Practice 8.1

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 8.1, which requires that the site train workers to understand the hazards associated with cyanide use.

There are a number of cyanide awareness training courses given to all visitors, contractors and workers at the site, ranging from basic level inductions highlighting the use of cyanide and its hazards to detailed task specific training on cyanide handling procedures. Cyanide refresher training is performed annually, with the records kept on a database and as hard copy by the HR department. The site operates a suggestion box system with input being given verbally, online or in writing. The system incorporates a formal evaluation system.

Training 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
  - not in compliance with

Training Practice 8.2

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 8.2 which requires that the site train appropriate personnel to operate the facility according to systems and procedures that protect human health, the community and the environment.

Pierina undertakes on the job and off the job training in specific cyanide related tasks and in the safe working procedures which are designed to ensure unplanned cyanide releases do not occur, such as the heap leach irrigation procedure and cyanide mixing procedure. The training elements are identified in the training materials, such as the cyanide refresher courses. The trainers and supervisors are adequately trained and have taken ‘train the trainer’ courses. Effectiveness of training is evaluated by written tests or task observations. Training records are maintained in the various departments in hard copy, by the HR department and on the training database (Consolidado).
Training 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

☐ not in compliance with

Training Practice 8.3

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 8.3 which requires that the site train appropriate workers and personnel to respond to worker exposures and environmental releases of cyanide.

Pierina is in full compliance with Standard of Practice 8.3 which requires that the operation train appropriate workers and personnel to respond to worker exposures and environmental releases of cyanide.

Workers and emergency response supervisors are trained in procedures to be followed in the event of a release of cyanide solution or HCN gas, and safe working procedures exist for a number of reasonably foreseeable events. The procedures include clean up of spills, decontamination of equipment and emergency first aid response.

Pierina has a number of formalised agreements with local emergency services, such as the police, brigadas and local hospitals for dealing with cyanide emergencies.

Cyanide emergency response refresher training is carried out regularly. Drills are also undertaken and have dealt with scenarios, such as earthquake, spills and poisoning. The drills are evaluated to assess the effectiveness of the procedures and training.

Emergency response training records are kept on the training database (Consolidado).
PRINCIPLE 9 – DIALOGUE
Engage in Public Consultation and Disclosure

Dialogue Practice 9.1: Provide stakeholders the opportunity to communicate issues of concern.
☐ in full compliance with
☐ in substantial compliance with
☐ not in compliance with

The operation is

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 9.1 which requires that the operation provide stakeholders the opportunity to communicate issues of concern.

Pierina provides numerous opportunities for stakeholders to communicate issues of concern regarding the management of cyanide. These include community workshops, site visits, a formal complaints system and regular community liaison meetings.

Pierina has a system of complaints handling. This covers all items of complaint including cyanide related issues. The complaint tracking system shows the nature of the complaints and their current status.

Dialogue Practice 9.2: Initiate dialogue describing cyanide management procedures and responsively address identified concerns.
☐ in full compliance with
☐ in substantial compliance with
☐ not in compliance with

The operation is

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 9.2 which requires that the site initiate dialogue describing cyanide management procedures and responsively address identified concerns.

Pierina has produced and distributed two leaflets on cyanide management:

• ‘Así manejamos el cianuro en la mina Pierina’ produced 2004, updated 2007, 2008, 2009; and
• ‘Como transportamos el cianuro’ 2008 updated 2009.

Pierina has undertaken a series of training workshops to local communities, known as the ‘Plan de capacitación’. Due to a degree of illiteracy in the local population the programme uses images/drawings/photos to explain.

Pierina has a contract with NGO RAPIDE to assist with an APELL (Awareness and Preparedness for Emergencies at a Locally Elevated) programme. In 2008 leaflets were distributed to people from the villages of Jangas, Marcac, Santa Casu, Chontayoc, Huantallón. Young persons’ workshops were held March 15, 2009. Further community based workshops were held in 2010 e.g. Cuncashca 20 August 2010, San Isidro August 25, 2010 Ramon Castilla, September 01, 2010, Mareniyoc May 27, 2010.

Pierina organises a programme of visits to communities further afield.
Pierina organises educational visits to the mine for about 1500 people per year. These incorporate all aspects of the mine and processing plant and are free of charge. They are conducted in both Spanish and Quechua. The records maintained by the Department of Communications and Public Relations show a diverse range of attendees including universities, schools, government officials and community representatives from around the country. The restrictions on attending the visits are that attendees must be >11 years old and those older than 70 must have medical check.

Pierina hosts about 4 feras (trade shows) per year concerning various issues such as the environment and climate change.

Pierina provided training in hazardous material handling (for emergency response) June 08, 2010 for DIRES Ancash, firemen at Huaraz and Chimbote, San Pablo clinic, Huaraz Hospital, Transport police.

Dialogue 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

☐ not in compliance with

Dialogue Practice 9.3

Summarise the basis for this Finding/Deficiencies Identified:

Pierina is in full compliance with Standard of Practice 9.3 which requires that the site make appropriate operational and environmental information regarding cyanide available to stakeholders.

Pierina has an extensive community liaison program and spends a great deal of effort communicating with stakeholders regarding the activities at the mine, the use of cyanide, its potential hazards and its safe management. These activities include numerous site visits by interested parties, local trade shows (ferias) and community education programmes with meetings held in Spanish and Quechua. Pierina has a legal obligation to report all cyanide related incidents to the Peruvian authorities. This data is then on the public record and can be accessed by interested parties on demand. In addition, Barrick publishes a range of communications such as its sustainability reports, and environmental, social and health and safety performance figures which are free to access.

- Barrick Beyond Borders magazines http://barrickbeyondborders.com/category/south-america/
- Sustainability reports in Spanish and English http://www.barrick.com/GlobalOperations/SouthAmerica/Pierina/default.aspx

February 2011
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09 February 2011
Date

Pierina Gold Mines
Name of Facility

Signature of Lead Auditor

Golder Associates
GOLDER ASSOCIATES (UK) LTD

Alistair Cadden  
ICMI Lead Auditor

Sophie Wheeler  
Reviewer

Date: 04 February 2011

Authors: AC, SW, IA/KJ/pr

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At Golder Associates we strive to be the most respected global group of companies specialising in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organisational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

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<td>+55 21 3095 9500</td>
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solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd.
Clyde House
Reform Road
Maidenhead
Berkshire
SL6 8BY
UK
T: [+44] 01628 586200