
FINAL COMPLETION REPORT

Gold Fields St Ives Gold Mine Lefroy Mill **&** **St Ives Heap Leach Gold Plants**

Introduction

This Final Completion Report presents the evidence to support the successful implementation of the Corrective Action Plans to correct the deficiencies identified in the certification audits held from 8th – 12th September 2008 at Gold Fields St Ives Gold Mine Lefroy Mill & St Ives Heap Leach Gold Plants

Corrective Action Plans

Principle 4 – Operations: Manage cyanide process solutions and waste streams to protect human health and the environment

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

Deficiencies

- The mine operates in hyper-saline conditions influenced by copper in solution which means that process operating conditions result in WAD cyanide levels on the TSF being in excess of 50ppm WAD cyanide. A peer-reviewed study has demonstrated that the mine employs alternative protective mechanisms for wildlife. Management controls and procedures do not include the recommended controls, mechanism and limits.

Corrective Actions

- Incorporate the recommendations of the scientifically peer reviewed study, “Influences of Hypersaline Tailings on Wildlife Cyanide Toxicosis – Final Report Volume 2 – Definitive Investigation”, into the plant operating procedures, monitoring regimes, water management procedures and emergency procedures, i.e., between 112 and 132 ppm WAD CN at a target TDS of 50,000 ppm and 46 ppm Copper at the spigot; and 65 ppm WAD CN at a target TDS of 50,000 ppm and 44 ppm Copper in the pond.
- Revise the operating parameters, procedures and activities using the recommended target values and associated systems to manage these parameters under normal, abnormal and emergency conditions for WAD cyanide levels for hyper-saline conditions at St Ives Gold Mine which, though in excess of 50 ppm WAD cyanide compliance levels, are at levels at which they are supported by the scientific rationale that they are protective of bird and wildlife mortalities.



Evidence Sighted by the Auditors

- The Lefroy Tailings Management Plan 2009, SIG-PRO-PL002, was reviewed and found to include detailed plans and linked work instructions covering normal, abnormal and emergency conditions on the Tailings facilities.
- The work instruction, “LA-WI-094: Monitoring Or Discharge WAD CN Levels” was reviewed and found to include detailed instructions covering monitoring of WAD CN levels according to the guidelines laid down in the study, “Influences of Hypersaline Tailings on Wildlife Cyanide Toxicosis – Final Report Volume 2 – Definitive Investigation”. Specific operating parameters, i.e. between 112 and 132 ppm WAD CN at a target TDS of 50,000 ppm and 46 ppm Copper at the spigot; and 65 ppm WAD CN at a target TDS of 50,000 ppm and 44 ppm Copper in the pond, were noted.
- Monitoring data relating to the work instruction, LA-WI-094, was sighted covering the period January to July 2009 and the auditors are satisfied that this reflects effective cyanide management, as per the recommendations from the study referred to above.
- The Tailings Disposal Training module, SIG-PRO-TN019, was also sighted and found to include detailed explanations regarding Cyanide Code requirements and links to appropriate work instructions.

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

Deficiency

- Site is operating under an interim supply agreement. The final contract between CSBP/AGR and St Ives Mine is in draft form and has not been signed. Issues still to be agreed cover liability matters and decommissioning. Complex commitments need to be supported by signed contracts.

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

Deficiency

- The contract between CSBP/AGR and St Ives Mine is in draft form and has not been signed. Issues still to be agreed cover liability matters and decommissioning. (Some reagent strength Cyanide facilities on site are

owned by AGR).Complex commitments need to be supported by signed contracts.

Corrective Action

- Agreement on issues that may have a bearing upon Code compliance in the contract and subsequent signing by both parties of the supply contract.

Evidence sighted by Auditors

- A Final copy, signed by representatives of St Ives Gold Mining Company and Agnew Gold Mining Company and Australian Gold Reagents (AGR), of a Sodium Cyanide Solution Supply contract which includes various references to compliance with ICMI Code requirements for the production and transport of cyanide.
- Included in the Contract is clear, identified responsibility for decommissioning and demobilisation of the AGR cyanide facilities on site.

Conclusion

The Lead Auditor, following discussions within the audit team, is satisfied that the corrective actions taken, meet the requirements of the corrective action plans and thus enable substantial compliance in these operations and production practices to be revised to Full Compliance.



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Lead Auditor

Date: 4th August 2009