



INTERNATIONAL CYANIDE MANAGEMENT INSTITUTE

Auditor Credentials Form

Facility Audited: Orica Papua New Guinea Supply Chain

Date: 24 to 25 October 2012

Auditor and Technical Specialist Credentials:

Auditor: Edward Clerk
 Auditor Certification Number: 105995 (Lead Environmental and Lead Occupational Health and Safety)
 Certifying Organisation: RABQSA International
 Telephone Number: +61 2 4728 4600
 Address: Suite 102, 148 Henry Street, Penrith BC NSW 2751
 Web Site Address: www.rabqsa.com

Year	Type of Facility, Type of Audit Led	Country & State/Province
Transportation - International Cyanide Code Certification Audits		
2013	Lead Auditor and Technical Specialist for Wesbank Transport Recertification Audit	Namibia
2013	Lead Auditor and Technical Specialist for TTM Recertification Audit	Republic of Guinea
2013	Lead Auditor and Technical Specialist for Hidden Valley Transport Certification Audit	Papua New Guinea
2012	Lead Auditor and Technical Specialist for Orica's New Zealand Supply Chain (Amendment)	New Zealand
2012	Lead Auditor and Technical Specialist for Orica's Papua New Guinea Supply Chain Audit Amendment	Papua New Guinea
2012	Lead Auditor and Technical Specialist for Newcrest's Lihir Gold Mine Transportation Supply Chain	Western Australia, Australia
2012	Lead Auditor and Technical Specialist for Pioneer Ocean Freight's Transport Re certification Audit	Thailand
2011	Lead Auditor and Technical Specialist for PT Transcontinent's Indonesian Supply Chain	Indonesia
2011	Lead Auditor and Technical Specialist for Toll Mining Services Papua New Guinea Supply Chain	Papua New Guinea
2011	Lead Auditor and Technical Specialist for PT Nusa Halmahera Minerals Gosowong Supply Chain	Indonesia
2011	Lead Auditor and Technical Specialist for Orica's West Africa Supply Chain Audit	Côte d'Ivoire, Guinea, Senegal, Mauritania, Ghana
2011	Lead Auditor and Technical Specialist for Orica's Papua New Guinea Supply Chain Audit	Papua New Guinea
2011	Lead Auditor and Technical Specialist for Orica's East Africa Supply Chain Audit	Tanzania and Kenya
2011	Lead Auditor and Technical Specialist for Orica's Asia Supply Chain Audit	Thailand
2011	Lead Auditor and Technical Specialist for Orica's Latin America Supply Chain Audit	Peru, Argentina and Brazil, South America
2011	Lead Auditor and Technical Specialist for Pioneer Ocean Freight's Transport Certification Audit	Bangkok, Thailand
2011	Lead Auditor and Technical Specialist for AGR Ocean Freight Supply Chain	Global



Lihir Gold Mine Transportation, Papua New Guinea - Auditor Credentials Form

Year	Type of Facility, Type of Audit Led	Country & State/Province
2011	Lead Auditor and Technical Specialist for Barbex Technical Services	Ghana, West Africa
2010	Lead Auditor and Technical Specialist for Orica's New Zealand Supply Chain	New Zealand
2010	Lead Auditor and Technical Specialist for Orica's Australian Supply Chain	Australia
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Namibia	Namibia, West Africa
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Ghana, Burkina Faso and Mali	Ghana, Burkina Faso and Mali, West Africa
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Guinea	Guinea, West Africa
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Senegal and Mali	Senegal and Mali, West Africa
2010	Lead Auditor and Technical Specialist for Burkina Logistics Mining Services in Ghana.	Burkina Faso, West Africa
2010	Lead Auditor and Technical Specialist for Allship Logistics in Ghana.	Ghana, West Africa
2009	Lead Auditor and Technical Specialist for TTM in Guinea.	Guinea, West Africa
2009	Lead Auditor and Technical Specialist for SDV in Senegal.	Senegal, West Africa
2008	Lead Auditor for Freight Forwarders Tanzania's transportation activities.	Tanzania, East Africa
2008	Lead Auditor for Freight Forwarders Kenya's transportation activities.	Tanzania and Kenya, East Africa
2007	Lead Auditor for Barbex Technical Services transportation activities.	Ghana, West Africa
Transportation - International Cyanide Code Equivalent Non-Certification Audits		
2010	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	Queensland, Australia
2009	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	Queensland, Australia
2009	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	Northern Territory, Australia
2009	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	New South Wales, Australia
2009	Lead Auditor and Technical Specialist for CSBP Wesfarmers' transportation activities.	Namibia, Southern Africa
2008	Lead Auditor for Orica Australia Limited's transportation activities.	Peru
2008	Lead Auditor for Orica Australia Limited's transportation activities.	Argentina
2008	Lead Auditor for Orica Australia Limited's transportation activities.	Thailand
2008	Lead Auditor for Orica Australia Limited's transportation activities.	New Zealand
2007	Lead Auditor for Orica Australia Limited's transportation activities.	Peru
2007	Lead Auditor for Orica Australia Limited's transportation activities.	Ghana, West Africa
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Queensland, Australia
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Townsville, Australia
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Northern Territory, Australia
2006	Lead Auditor for Orica Australia Limited's transportation activities.	New South Wales, Australia



Lihir Gold Mine Transportation, Papua New Guinea - Auditor Credentials Form

Year	Type of Facility, Type of Audit Led	Country & State/Province
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Tasmania, Australia
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Western Australia, Australia
Production - International Cyanide Code Certification Audits		
2011	Lead Auditor for Orica Australia Limited's production (transfer) facility.	Ventanilla, Peru
2009	Lead Auditor for Orica Australia Limited's production facility.	Yarwun, Queensland, Australia
2008	Lead Auditor for Orica Australia Limited's production (transfer) facility.	Ventanilla, Peru
2006	Lead Auditor for Orica Australia Limited's production facility.	Yarwun, Queensland, Australia
Production - International Cyanide Code Equivalent Non-Certification Audits		
2007	Lead Auditor for Recertification of Orica Australia Limited's production (transfer) facility.	Tarkwa, Ghana
Mining - International Cyanide Code Certification Audits		
2012	Lead Auditor and Technical Specialist for Morobe Mining Limited's Hidden Valley Gold Mine	Papua New Guinea
2011	Lead Auditor and Technical Specialist for Newcrest's Telfer Gold Mine	Western Australia, Australia
2011	Lead Auditor and Technical Specialist for Recertification of Minera Yanacocha S.R.L	Peru
2011	Lead Auditor and Technical Specialist for Newcrest's Gosowong Gold Mine	Halmahera, Indonesia
2010	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Granny Smith Gold Mine.	Western Australia, Australia
2009	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Plutonic Gold Mine.	Western Australia, Australia
2008	Lead Auditor and Technical Specialist for Newmont's Waihi Gold Mine.	New Zealand
2008	Lead Auditor and Technical Specialist for Newmont's Tanami Gold Mine.	Western Australia, Australia
2008	Lead Auditor and Technical Specialist for Newmont's Jundee Gold Mine in Western Australia, Australia.	Western Australia, Australia
2008	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Darlot Gold Mine.	Western Australia, Australia
2008	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Kanowna Belle Gold Mine.	Western Australia, Australia
2008	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Lawlers Gold Mine.	Western Australia, Australia
2008	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Porgera Gold Mine.	Papua New Guinea
2008	Lead Auditor and Technical Specialist for Kalgoorlie Consolidated Gold Mines' Fimiston and Gidji facilities.	Western Australia, Australia
2008	Pre-Operational Lead Auditor and Technical Specialist for Dundee Precious Mineral's processing facility.	Chelopech, Bulgaria
Mining - International Cyanide Code Pre-Certification Audits (gap analysis)		
2011	Lead Auditor and Technical Specialist for Akara Mining's Chatree Gold Mine	Thailand



Lihir Gold Mine Transportation, Papua New Guinea - Auditor Credentials Form

Year	Type of Facility, Type of Audit Led	Country & State/Province
2011	Lead Auditor and Technical Specialist for Newcrest's Lihir Gold Mine	Western Australia
2011	Lead Auditor and Technical Specialist for Newcrest's Telfer Gold Mine	Western Australia
2011	Lead Auditor and Technical Specialist for Morobe Mining Limited's Hidden Valley Gold Mine	Papua New Guinea
2011	Lead Auditor and Technical Specialist for Newgold's Peak Gold Mine	New South Wales
2010	Lead Auditor and Technical Specialist for Newcrest's Gosowong Gold Mine	Halmahera, Indonesia
2010	Lead Auditor and Technical Specialist for Newmont's Boddington Gold Mine	Western Australia, Australia
2010	Lead Auditor and Technical Specialist for Newcrest's Cracow Gold Mine.	Queensland, Australia
2010	Technical Specialist for Newcrest's Telfer Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Newmont's Waihi Gold Mine.	New Zealand
2007	Lead Auditor and Technical Specialist for Newmont's Tanami Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Newmont's Jundee Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Darlot Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Plutonic Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Kanowna Belle Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Lawlers Gold Mine.	Western Australia, Australia
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Porter Gold Mine.	Papua New Guinea
2007	Lead Auditor and Technical Specialist for Kalgoorlie Consolidated Gold Mines' Fimiston and Gidji facilities.	Western Australia, Australia
2007	Pre-Operational Lead Auditor and Technical Specialist for Dundee Precious Mineral's processing facility.	Chelopech, Bulgaria

Due Diligence Auditing

2009	Lead Environmental Auditor for gold mine Due Diligence Audit.	Western Australia, Australia
2006	Lead Environmental Auditor for copper mine Due Diligence Audit and review of Bankable Feasibility Study for Macquarie Bank.	Queensland Australia
2006	Lead Environmental Auditor for mineral sands operation Due Diligence Audit.	Western Australia, Australia
2005	Lead Environmental Auditor for manganese mine Due Diligence Audit for Commonwealth Bank.	Western Australia, Australia
2005	Lead Environmental Auditor for fertiliser factory (5) Due Diligence/Compliance Audit in Western Australia, Australia.	Western Australia, Australia
2004	Lead Environmental Auditor for gold mine Due Diligence Audit against Canadian Securities Act – National Instrument 43-101.	Western Australia, Australia

Operational Experience (In-house Auditing)



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2000-2004	Gold Mines Operational Experience (In-house Auditing). Environmental Superintendent for Barrick Gold Tanzania. Conducted internal environmental auditing including compliance and system audits.	Tanzania, East Africa
1998-2000	Nickel Mine and Refining Facility Operational Experience (In-house Auditing). Environmental Superintendent for Anaconda Nickel in Western Australia. Conducted internal environmental auditing including compliance and system audits.	Western Australia, Australia
1996-1998	Gold Mine Operational Experience (In-house Auditing). On-site environmental auditing including compliance and system audits for operational gold mine. Environmental Coordinator for Gold Mines of Australia Reedy Gold Mine. Conducted internal environmental auditing including compliance and system audits.	Queensland, Australia
1994-1996	Queensland Department of Environment. Environmental auditing incorporating emergency response and health and safety issues associated with manufacturing, maintenance, waste, chemical processing, construction, transportation and minor extractive industries.	Queensland, Australia

Cyanide-Related Operations Experience

Each auditor must have at least 3 years; at least one auditor must have at least 7 years experience.

Auditor	Yrs.	Relevant Position Titles	Types of Operations
Ed Clerk	9	Associate, Senior Environmental Consultant, Manager Mining EHS Services	Since August 2004, Mr Clerk has provided environmental consulting services for the mining industry. Approximately 50% of his time has been spent with gold operations including new mine operating plans, mine permitting, compliance auditing, cyanide code pre-certification and certification auditing, remediation and closure plans, and closure cost assessment.
	6	Environmental Superintendent – Tanzania, Environmental Coordinator	Between 1996 to 1998 and 2000 to 2004, Mr Clerk has provided in-house environmental management and auditing services to gold mining companies in both Western Australia (Gold Mines of Australia) and Tanzania (Barrick Gold).

Statement of No Conflict

I certify that I have not audited any component of this facility for which I was responsible for design or development; nor have I within the past year been an employee of the facility, its parent company, or associated affiliates. Excluding audits, I have not derived more than 30% of my income within the past 5 years from the facility, its parent, or associated affiliates. I have not participated in more than two consecutive Cyanide Code audits of this facility. I have participated in at least 3 health, safety, and/or environmental audits in the past 7 years and am familiar with standard audit procedures as well as with the protocols developed by the International Cyanide Management Institute for implementation of the Code.

Signed	Name	Signature	Date
Lead Auditor and Technical Specialist*	Edward Clerk		22-5-13

Use additional pages if necessary

*The lead auditor's signature must be certified by notarisation or equivalent.

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IAN BARRIE MURPHY
16 Emerald Terrace
West Perth Western Australia
General Public (100)





Lihir Gold Mine Transportation, Papua New Guinea - Auditor Credentials Form

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