

CURRICULUM VITAE - DR. EDWARD M. WATKIN

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Nationality	British	Profession	Agronomist

SUMMARY

- International mining and other industrial experience (25 countries) covering Africa, Caribbean, Canada, Europe, India, Indonesia and United States of America. Extensive experience of work in remote and extreme environments.
- Experience includes environmental and social assessment for EIA and SIA studies, for project prefeasibility and feasibility assessment, project permitting and operational approvals, implementing significant improvements in E&OHS performance, working towards international best practice and standards.
- Experienced in Pre-acquisition, Acquisition and Operational audits.
- Mine site Environmental Manager experience in Ghana, Sierra Leone and Mauritania.
- Experienced in managing and/or participating in environmental impact and social assessments and producing, implementing and reviewing environmental management plans to ISO 14001, IFC, OPIC and DFID Projects.
- Knowledge of open pit mining procedures, mineral processing and waste management gained from international experience. Experience of large-scale projects, e.g., Kinross Tasiast, Mauritania, Freeport Indonesia, Quintette Coal, Canada, Northern Coalfields, India, Ashanti Goldfields, Ghana.
- Very strong appreciation of the need to fully integrate mineral production with all aspects of environmental, OH&S and social management practices from senior management to junior employee levels by ensuring all technical plans, procedures and process changes incorporate the requirements of all safety and environmental policies and practices.
- Excellent communication and effective coaching skills of peers and subordinates. Extensive managerial experience with a large international inspection and verification company.

Recent Employment

Dates	July 2011 – June 2015
Position held	Senior Environmental Engineer
Company Name	Tasiast Mines Ltd SA
Employer Name	Kinross Gold Inc.
Country of Work	Mauritania

Main Activities and Achievements

As Tasiast Environmental Permitting Leader managed internal staff and international environmental and engineering consultants to produce environmental impact assessments and collaborated with Government departments and agencies (Minister and Director level) to obtain all necessary environmental permits. Technical assistance within Environmental Department included rehabilitation and closure planning, ambient and workplace dust control, waste management, archaeological investigations, internal auditing and monitoring of exploration, construction and production activities (Tasiast and contractors).

Major permits obtained were::

- 1) Tasiast Phase 2 Expansion Project
- 2) Tasiast Ocean Intake and Seawater Pipeline Project
- 3) Tasiast Beach Landing & Associated Transportation Activities Project.

Other significant work included:

Instrumental in re-establishing Tasiast relations with National Centre for Water Resources.

Instrumental in negotiating with Ministry of Hydrology for the extension of Tasiast Water Abstraction Permit.

Member of Nouadhibou Free Zone Authority – TMLSA Steering Committee.

Countries of Work Experience				
Canada, Guyana United States of America.	India, Indonesia.	Cote d'Ivoire, Gabon, Ghana, Guinea, Niger Sierra Leone.	South Africa, Swaziland Tanzania, Zambia. Zimbabwe.	France, Germany, Netherlands, Romania, Spain, Switzerland. U.K
Previous Employment				
Dates		March – June 2011		
Position held		Environmental Superintendent (Short term as back up)		
Employer Name		African Minerals Limited, London, UK		
Country of Work		Sierra Leone		
Main Activities and Responsibilities		General environmental management activities		
Previous Employment				
Dates		March 2008 – September 2010		
Position Held		Environmental Manager - Central Ashanti Goldfields Limited		
Employer Name		Perseus Mining Limited, Perth, Australia		
Country of Work		Ghana/Cote d'Ivoire		
Main Activities and Achievements				
Areas of Direct Management: Ghana/ Cote d'Ivoire				
<ol style="list-style-type: none"> 1. Audit and assist with risk management assessment of the Ayanfuri DFS Ghana & Tengrela DFS Cote d'Ivoire. 2. Led the Environmental Impact Assessment process and obtained approval from Ghana EPA. 3. Initiated the Environmental Impact Assessment for the Tengrela Project. 4. Developed the CAGL Environmental Management System including documentation for construction and operation periods and interacted with the appointed Project Engineers and Construction Agent to ensure all regulatory requirements and Company commitments were complied with. 5. Managed the consultative process for the effective sustainability of the Social License enhancing the relationship with stakeholders, local community and concerned citizens. Established regular meetings, protocols and procedures to ensure that the Social License was transparent, positive and auditable by NGO's and other appointed independent auditors. 6. Negotiated on behalf of the company with the Ghana EPA on matters related to the ESIA, and resolved areas of conflict related to the reopening of the Ayanfuri mine (CAGL). 7. Facilitated the handover to the incoming (Ghanaian) Environmental Manager at the appropriate time. 				
Previous Employment				
Dates		January 2000 – December 2007.		
Position held		SGS Senior Executive Consultant.		
Employer Name		SGS Laboratory Services Ghana Limited, Accra, Ghana (a Member of Société Générale de Surveillance, Geneva, Switzerland)		
Country of Work		Various		
Main Activities and Achievements				
<p>Environmental, OH&S and social audits (including ISO 14001); environmental impact assessments and associated permitting; land reclamation and mine closure and remediation (soil and water), acid mine drainage. Professional review/quality control of all technical reports issued by SGS.</p> <p>Individual and team projects in Ghana, Indonesia, Niger, Guinea, Romania and Zambia. Guidance to mine staff on technical and personal development issues. Extensive contact and liaison with Ghana Environmental Protection Agency/Ghana Minerals Commission.</p> <p>International Expert Advisor to European Union/Ghana Minerals Commission Mining Sector Support Programme – National Environmental Impact Assessment of Mining Industry in Ghana. Review and assess quality, significance and relevance of collected data (2005 – 2007) from 61 audited mine sites.</p>				

Previous Employment	
Dates	June 1994 – January 2000
Position held	Senior Manager – Resident in Ghana
Employer Name	SGS Laboratory Services Ghana Limited, Accra, Ghana
Country of Work	Ghana and numerous others
Main Activities and Achievements	
Environmental Division start-up and business development.	
Implementation of technical consultancy services (EIA/ESIA/OH&S Audits).	
Administration and budget management.	
Development of sub-network of local consultants with expertise in ecology, water, soils, OH&S and social matters.	
Previous Employment - Summary	
Dates	June 1993 – June 1994
Position held	Senior Environmental Consultant
Employer Name	SGS Environment Ltd, United Kingdom
Main activities and responsibilities: Environmental consulting, environmental auditing and business development in United Kingdom, Ghana, Sierra Leone	
Dates	January 1990 – June 1993
Employer Name	Cremer & Warner Consulting Engineers and Scientists, London, U.K.
Position held	Senior Consultant
Main activities and responsibilities: Environmental consulting (Coal, metals, industrial minerals, food processing) and business development in United Kingdom, Ghana, Sierra Leone, India, Germany, France, and the Netherlands.	
Employment Other 1968 -1990	
Additional information on Canada, employment and mining consultancy is available on request.	
Education and training	
Dates	1963 - 1966
Title of qualification awarded	Ph.D.
Awarding Institution	University of Wales, United Kingdom
Dates	1959-1963
Title of qualification awarded	B.Sc. Honours (IIA)
Principal subjects	Agricultural Botany, Botany, Agriculture, Soil Chemistry
Awarding Institution	University of Wales, United Kingdom
Other 1966 -1967	Post-doctoral studies – Oregon State University, USA
Other 1967 - 1969	Post-doctoral studies – University of Guelph, Canada
Social skills and competences	
My professional work in 24 countries + travel/visits in another 11 countries has given me an ability to understand how different cultures work and how to interact with them, both professionally and socially and to be fully aware that different approaches are required to implementing projects and encouraging local people to participate in a meaningful and constructive way.	
Additional information 1: First recipient of the Dr. Edward M. Watkin Award – established in 1982 and awarded annually by the Canadian Land Reclamation Association.	
“The Dr. Edward M. Watkin Award is named after a founding member of the CLRA in recognition of significant service given to furthering land reclamation in Canada. The award is presented by the CLRA/ACRS in recognition of major contributions to land reclamation, especially through service to foster advances in regulation, reclamation success, or development of personnel or students. The recipient may be an individual or agency, institution or company.	
Additional information 2: Recipient in 1989 of Noranda Mines Inc. (Canada) Land Reclamation Award	