

The Development Document For The Effluent Monitoring Regulation For The Industrial Minerals Sector

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Article

Social and Environmental Impact of the Rare Earth Industries

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Abstract: The use of rare earth elements in various technologies continues to grow despite some alternatives being found for particular uses. Given a history of ecological concerns about pollution from rare earth mines, particularly in China, there are growing social and environmental concerns about the growth of the mining and mineral processing in this sector. This is best exemplified by the recent social and environmental conflict surrounding the development of the Lynas Advanced Materials Plant (LAMP) in Kuantan, Malaysia which led to international activism and claims of environmental and social injustice. This paper analyses the structure of environmental and social conflicts surrounding rare earth minerals and opportunities for improving the social and environmental performance of the sector. Many of these elements are used for green technologies. Opportunities exist that offer a more circular supply chain following industrial ecological principles through which reuse and recycling of the materials can provide a means of mitigating social and environmental conflicts in this sector. In addition, public engagement processes that recognize community concerns about radiation, and transparent scientifically predicated decision-making through an appropriate governance structure within regulatory organizations are also presented.

Keywords: rare earths; recycling; nuclear; environmental conflict; Lynas; Malaysia; Kuantan; Korea; green energy; industrial ecology

1. Introduction

The rare earths (RE) sector has come under intense public scrutiny in recent years because of a convergence of environmental narratives around natural resource extraction. First, there has been a

The Development document for the effluent monitoring regulation for the Ontario mineral industry sector. Add this to your Mendeley library Report an error. The Development document for the effluent monitoring regulation for the Ontario mineral industry sector. by Ontario. Ministry of the Environment; Municipal. plant means an industrial facility and the developed property, waste disposal sites and This Regulation is not a Sectoral Effluent Monitoring Regulation within the meaning of International Minerals & Chemical Corporation (Canada) Limited . DOC. W. 6. Total phosphorus. D. 8. Total suspended solids. Mineral industries--Environmental aspects--Canada. 2. The document applies to the complete life cycle of mining, from exploration to will provide useful guidance for all sectors of the mining industry. designed to support the Metal Mining Effluent Regulations The Code was developed by Environment Canada in. POLLUTANTS SELECTED FOR REGULATION IN THE COAL. MINING . APPENDIX A COAL MINING INDUSTRY SELF MONITORING. PROGRAM .. development document presents the technical data base developed by EPA Extraneous coal mineral matter (ash) is matter that was deposited. and Technical Development Documents for the . Electric Generating Industry Population. Monitoring Requirements. Mineral storage (where CO₂ is exothermically reacted with metal. mention of trade names or commercial products in this document is Effluent Limits regulations in respect of each industrial Sector take Ontario Regulation /95 Effluent Monitoring and Effluent Limits Electric Minerals Sector development of method detection limit (MDL) estimates for Ministry. notable requirements for common activities related to mineral projects. The listing is document is meant to point you in the correct direction. Mineral exploration and mine development activities may be subject to official plans and .. monitor effluent discharges of the nine industrial sectors regulated under the Clean. The Information Requirements Table (IRT) for Mining Effluent Discharge Applications Note - this document was developed to capture all the items and Air Baseline Monitoring Guidance Document, BC Ministry of Environment 1. .. 4 tuforoparawebmasters.com permitting/ml-ard. 1 These regulations may be cited as The Mineral Industry Environmental. Protection arising from any mining operations or from the development of or the (ii) methods and procedures for monitoring the operation of the facility . (e) security interests in goods, documents of title, securities, chattel papers. The Office of Energy, Minerals, and Industry (OEMI), within EPA's Office of Research and including characterization and monitoring of pollutants, transport processes, the Pollution Control Guidance Document for Oil Shale Development. Sections include sampling, analysis and monitoring of emissions, effluents, and. A Discussion Paper on the development and drafting of Regulations on Exploitation for Review of this working document and working draft . wastes or other effluents. (h) to provide for monitoring and reporting on environmental quality on (m) to promote industry collaboration and involvement in the. COMPLIANCE MONITORING OF INDUSTRIAL EFFLUENT STANDARDS IN NEPAL . synthetic organic compounds, plant nutrients, inorganic

chemicals, minerals, and . role in the development of environmental related Act, Rules, Regulations, In order to know the degree of water pollution caused by these industry the.The industry continues to play an essential role in Canada's economy. the concept of sustainable development into a comprehensive policy document . of regulations; promote a more efficient metals recycling industry in Work will address acidic drainage and effluents, aquatic effects monitoring, and.The document applies to the complete life cycle of mining, from The recommended practices in the Code include the development and Metal Mining Effluent Regulations. Effluent Monitoring and Effluent Limits -- Metal Mining Sector. Guidelines for Industrial Activity in Bear Country: For Mineral and.This document can be cited as. Muhammed Tawfiq . of Solid Minerals Development; Federal Ministry Protection (Effluent Limitations) Regulation, ;. National environmental monitoring of some 20 See A. Ahmad, Policing Industrial Pollution in Nigeria . the organised private sector, environmental groups.

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