

Confidential

September 18, 1995

Meeting Minutes

September 15, 1996 9:30 - 11:00 am
Giant Mine Managers' Office

Attendance

Environment Canada

Bill Howard - Director, Environmental Protection Branch, Prairie & Northern Region
Laura Johnston - Manager, Environmental Protection Branch, Yellowknife
Ed Collins - Chief Engineer, Environmental Protection Branch, Yellowknife

Royal Oak Mines

John Stard - Giant Mine Manager
Dave Anthony - Manager, Environmental Services NWT Division
Phil MacIntyre - Giant Mine Mill Superintendent

Purpose

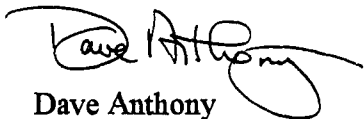
To review the intention of Environment Canada to draft legislation which will control arsenic emissions from gold roasting plants in Canada.

Note: The specific purpose of the meeting was not identified prior to the visit. A generic 'discussion of arsenic emissions' was understood by John Stard prior to the meeting.

Discussion

- John Stard introduced Royal Oak Giant Mine as a high cost producer with limited reserves and potential for profit at current gold prices (US \$380/oz). We have a 5 year reserve which is primarily based upon reclaim of mined out areas. An extensive exploration program is in progress, to identify new sources of ore and extend mine life.
- Ed Collins will chair a technical group (based in Ottawa), to evaluate emissions, dispersion, monitoring, socio-economic and health effects. This task force has been named and is now considered to be working. The task force is composed of government employees only.
- The Environment Minister will announce this initiative within the next 2-3 weeks.
- Environment Canada is aware the GNWT are developing regulations for SO₂ emissions. The arsenic control legislation will be developed in consultation with GNWT, to prevent conflict.
- Development of Draft Guidelines will be complete by December 1995.
- The regulation will probably address stack emissions and may not be greatly different from the 1979 proposal, which did not become law. A copy of the proposed legislation is attached.
- Consultation of stakeholders (including Royal Oak Mines) will begin in December 1995.

- Final Draft publication will be issued in February 1996.
- At this time there is a monitoring station operated by GNWT at the City Hall. Environment Canada will establish another station closer to the Giant minesite. This will probably be located at Latham Island (Ndilo) or Old Town. Royal Oak Mines declined the offer to establish a monitoring station at the Giant Townsite.
- Royal Oak Mines has been working with GNWT, to develop an air dispersion model for the Giant stack. This model is part of the public record. Further, Royal Oak Mines has commissioned Dillon Engineers to complete a feasibility review of potential modifications to the roaster emission system (precipitator, baghouse, fans, stack, emission temperature, volume and velocity). This review will determine the cost and effect (benefits) of modifications to the existing system. The feasibility review will be complete within 1-2 months. We will make this information available to Environment Canada when requested, without specific discussion of capital cost or commitment to complete modifications.



Dave Anthony
Manager - Environmental Services
NWT Division

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GIANT MINE: John Stard, Phil MacIntyre