

REHABILITATIONSPOTENZIALE IN DER NKANA-KUPFERMINE, KITWE/ZAMBIA

MARTIN KNIPPERTZ & FRANK LEHMKUHL, AACHEN

SUMMARY

Rehabilitation potential in the Nkana copper mine area, Kitwe/Zambia

The aspect of rehabilitation of degraded land in mining areas gains more and more importance in the context of sustainable resources management of raw materials. The optimized site rehabilitation is regarded as an integrated component of the production chains. Rehabilitation reduces the occupation of land, reduces potential sources of danger, and contributes substantially to the acceptance of the mining industry. By the example of the Nkana-Mine in Kitwe (Zambia) this paper presents the mining industry in the Zambian Copperbelt as well as associated environmental effects. The focus of the investigation are the surrounding areas of the smelter. The rehabilitation potential of the degraded land is discussed and site-optimized rehabilitation concepts are derived. Throughout investigation in Zambia the low-income situation and hence their need for economically and socially justifiable rehabilitation measures has been considered explicitly.