Action Research for Remediation: A Geochemical Assessment of Acid Mine Drainage from Abandoned Witwatersrand Gold Mines and Its Impact on River Systems

L, e, r, a, t, o, M, o, k, o, e, n, a, ,, P, i, e, t, e, r, v, a, n, d, e, r, M, e, r, w, e, ,, T, h, a, n, d, i, w, e, N, k, o, s, i

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Abstract

This study addresses a current research gap in African Studies concerning A geochemical assessment of acid mine drainage from abandoned gold mines on river systems in the Witwatersrand Basin, South Africa in South Africa. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. A geochemical assessment of acid mine drainage from abandoned gold mines on river systems in the Witwatersrand Basin, South Africa, South Africa, Africa, African Studies, action research This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.