

# Mine dewatering design in surface mining to improve the quality of ground water

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## Determination of ground water quality associated with lignite mining in arid climate

Cutoff walls keyed into competent, low-permeability bedrock are constructed to capture leach waters. Examination of the geochemical evolution of groundwater in spoil aquifers reveals many trends. Many other areas within the mine remain open to oxygen and water exchange and are susceptible to reaction.

## Impacts from surface mining on ground

EPA recently elected to discontinue negotiations on this agreement because several key legal terms remained unacceptable to Kennecott. It was the first practical application of the steam engine in a mine and was used to dewater coal and tin mines. Minimal impacts on groundwater quantity and quality were predicted.

## Operating Cost for Miners

This project consisted of the relocation of over 1.

## The recovery of ground water in reclaimed surface coal mines (Conference)

Successful techniques for fracturing and subsequent in situ recovery have not been developed on a large scale, although substantial prototype studies are currently in progress for modified in situ recovery procedures see Section 3 for further comments. This provides excellent inertization but is possible only in highly inclined coal seams.

## African deal for deep mine dewatering plan

These and many other major and minor environmental cleanup projects at KUC are being conducted on an expedited basis by Kennecott in advance of any formal agreements with EPA or the State of Utah. By themselves, the solid wastes of metal mining and beneficiation would cause little environmental damage, except aesthetically.



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