



Net Acid Production, Acid Neutralizing Capacity, and Associated Geophysical, Mineralogical, and Geochemical Characteristics of Animas River Watershed Rocks Near Silverton, Colorado: USGS Open-File Report 2005-1433

U.S. Department of the Interior, United States Geological Survey (USGS), et al., Douglas B. Yager



Net Acid Production, Acid Neutralizing Capacity, and Associated Geophysical, Mineralogical, and Geochemical Characteristics of Animas River Watershed Rocks Near Silverton, Colorado: Usgs Open - File Report 2005-1433

By Douglas B Yager

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This report presents results from laboratory studies involving the net acid production (NAP), acid neutralizing capacity (ANC), and magnetic mineralogy of thirty-four samples collected in the Upper Animas River watershed near Silverton, Colo., during the summer of 2003. Sampling focused mainly on the volumetrically important, Tertiary-age volcanic and plutonic rocks that are host to base and precious metal mineralization in the study area. Rocks in the study have all been subjected to a regional propylitic alteration event that modified the primary mineralogy of the host rock, while introducing minerals with an acid neutralizing capacity (ANC) including calcite, chlorite and epidote. Locally, hydrothermal alteration has consumed any ANC and introduced minerals, mainly pyrite, that has a high net acid production (NAP). Laboratory studies included hydrogen peroxide (H₂O₂) acid digestion and subsequent sodium hydroxide (NaOH) titration to determine NAP, and sulfuric acid H₂SO₄ acid titration experiments to determine ANC on selected samples that generally had low NAP. In addition to these environmental rock property determinations, mineralogical, chemical, and petrographic characteristics of each sample were determined through multiple methods including semi-quantitative...



READ ONLINE
[2.93 MB]

Reviews

Complete guideline for pdf fanatics. I could possibly comprehended everything out of this created e pdf. You can expect to like just how the writer compose this pdf.

-- **Nya Kunde**

It in a single of my personal favorite ebook. It can be loaded with wisdom and knowledge You can expect to like just how the blogger create this pdf.

-- **Dr. Travis Berge**