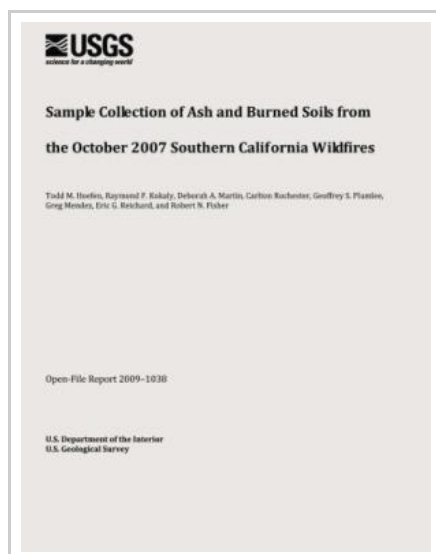




Sample Collection of Ash and Burned Soils from the October 2007 Southern California Wildfires

By U. S. Department of the Interior

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 64 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. Between November 2 through 9, 2007 scientists from the U. S. Geological Survey (USGS) collected samples of ash and burned soils from 28 sites in six areas burned as a result of the Southern California wildfires of October 2007, including the Harris, Witch, Santiago, Ammo, Canyon, and Grass Valley Fires (fig. 1). The primary goal of this sampling and analysis effort was to understand how differences in ash and burned soil composition relate to vegetation type, underlying bedrock geology, burn intensity, and residential versus wildland fire (Plumlee and others, 2007). Sampling sites were chosen with the input of local experts from the USGS Water Resources and Biological Resources Disciplines to help understand possible effects of the fires on water supplies, ecosystems, and endangered species. The sampling was also carried out in conjunction with detailed field analysis of the spectral reflectance characteristics of the ash, so that chemical and mineralogical characteristics of the field samples could be used to help interpret data collected as part of an airborne, hyperspectral remotesensing survey of several of the burned areas in mid-late...



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