



USGS - EPA Utah AML Project  
 SIR 2004-5241  
 Clay, Sulfate, Mica,  
 and Carbonate Minerals  
 International Smelter and Refining site,  
 Oquirrh Mountains, Utah  
 AVIRIS high-altitude data  
 August 5, 1998  
 Run 9, NEW3 calibration  
 Tetracorder 3.6a9 Product

**Kaolinite Group Minerals**

- kaolinite + illite/muscovite or smectite
- kaolinite (well-crystallized)
- kaolinite (poorly crystallized and/or impure float)

**Sulfate Minerals**

- possible jarosite +/- illite +/- smectite
- gypsum
- possible alunite
- possible alunite + kaolinite +/- sericite

**Carbonate Minerals**

- calcite
- calcite + muscovite
- dolomite
- calcite + dolomite +/- montmorillonite
- calcite + kaolinite

**Sericite Group Minerals**

- high-Al illite/muscovite
- medium-Al illite/muscovite
- low-Al + Fe-rich illite/muscovite
- gypsum + jarosite +/- illite intimate mixture

- epidote
- talc +/- Mg-bearing clays +/- amphibole
- montmorillonite (Ca + Na)

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