



Laboratory Report

Cyprus Industrial Minerals Co.
Product Development West
An Affiliate of Cyprus Minerals Company

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Filing No. 87-218

References: See also 87-220

Key: Willow Creek 1987 Product

Date of Report: 7-28-87

Date of Work Request/By: 7-21-87/J. Daniel

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D. Fischer, File

Reported By: P. Colville

Approved By: P. Colville

Classification:

Status: Complete

Subject: Three samples of Willow Creek talc 1) Product, 2) 1/4 inch, 3) 1/4 - 3/4 inch require characterization as a competitors product.

Objective: Compare to Yellowstone products.

	<u>PRODUCT</u>	<u>1/4</u>	<u>1/4 - 3/4</u>
GEB	84.92	74.76	80.74
LOI	5.5	6.87	6.67
Talc	~90	>82	>83
Chlorite	~10	<15	<15
Quartz	tr	<1	~1
Calcite	-	<1	tr
Dolomite	-	<1	<1
Feldspar	-	tr	tr

This high chlorite content is characteristic of Willow Creek ore even at its very best. Feldspar may be a contribution from sloppy mining as gneisses are encountered in the mine. Our evaluations of drill cores included some of the gneisses in areas where the talc deposit was developed in the dolomitic marbles. These marble units were enclosed by highly chloritized gneisses. Some talc even appears to be developed in the more chloritized gneisses. Lithologies change rapidly and it has been difficult to avoid contamination.

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PC/sja

