

MEMORANDUM

TO: Ron Daniels
FROM: Mike Thompson *XMT*
RE: U P & L Wilberg Sediment Control Plan
DATE: July 13, 1978

File

The hydrology for U P & L's Wilberg Mine, at this stage, looks pretty good. Using a different method than Mr. Musser I came up with similar results. Mr. Musser uses 1.5 in. of runoff, 25 acres of disturbed land, resulting in 3.1 acre-ft. of runoff using the rational method.

Assuming a weighted curve number of 90, I estimated 1.44 inches of runoff, 25 acres, and 3.0 acre-ft. of runoff volume. This curve number may be a little low. It depends on how much undisturbed land is included in the 25 acre estimate. A higher curve number of 95 (bare rock curve number is 96) would result in 3.9 acre-ft. of runoff volume for 25 acres. In the letter Mr. Musser is vague on the acreage drained; he mentions 20 to 25 acres. Twenty acres with a weighted curve number of 95 will result in 3.12 acre-ft. of runoff - the design capacity.

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OK - Do we yet have a final proposal or is what you referred to a draft?

Draft