



**Questa Engineering Corporation**  
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## **MEMORANDUM**

**DATE:** December 22, 2000  
**TO:** Mal Murphy [malmurphy@home.com]  
**CC:** Danielle Fife [dfife@nrff.com]  
**RE:** **SATURATED ZONE FLOW & TRANSPORT AMR Reviews**  
**Probability Distribution for Flowing Interval Spacing**  
**ANL-NBS-MD-000003**

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Key Items are:

1. p. 11, Section 5.0, Paragraph 3. **Only 32 data points were available within five hydrogeologic units. This is insufficient for meaningful extrapolation.** Although these measurements were from 8 wells (p. 13-14), the C wells and UE-25 P#1 are very close together, and G-4, H-1 and H-4 are fairly close, so we are really looking at only 3 or 4 areal locations. (A YMP well map is available at [http://m-oext.ymp.gov/html/prod/db\\_tdp/gi/internet/YMP000230.pdf](http://m-oext.ymp.gov/html/prod/db_tdp/gi/internet/YMP000230.pdf).)
2. p. 15, Section 7, Paragraph 1. Flow rates will be even more narrowly distributed than flow interval spacing, which suggests flow may focus to a greater extent than they have calculated.

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