

WM-RES

WM Record File

B-7372

WdA

WM Project 10

Docket No.

PDR

LPDR B

MAY 16 1985

426.1/B7372/MG/85/05/14

- 1 -

Distribution:

(Return to WM, 623-SS)

Dr. Roy E. Williams  
Williams & Associates Inc.  
P.O. Box 48  
Viola, ID 83872

Dear Dr. Williams:

## DISTRIBUTION:

WM 426.1 s/f FIN B7372  
NMSS r/f WMGT r/f  
MGordon & r/f MFliegel  
MKnapp JOBunting  
MJBell REBrowning

I have had Neil Coleman (Hydrology section) and Dave Brooks (Geochemistry Section) review the recent draft report on statistical analysis of hydrochemical data. Their comments and suggestions are attached for your consideration in preparing the final draft report. My only additional comments on the report would be the following:

- 1) Your distinction on pp. 17 and 18 between hydrochemical distinctness and isolation is an important one, which should be reiterated more clearly in the Introduction (especially page 3) and in the Discussion (page 47 and 48).
- 2) In the middle of page 3, the natural evolution of the hydrochemistry in different units due to, e.g., the geothermal gradient, pH changes, Eh changes, and other chemical factors, might appropriately be added to your list of factors which require evaluation as part of "the second step of the problem."
- 3) The anomalous groupings from boreholes DC-15, DC-14, DC-12, McGee and DC-6 may offer the most valuable information, since in hypothesis testing, only hypothesis rejection is conclusive.

As we have previously discussed I would like you to make a brief (20 to 30 minute) presentation on your work in statistical analysis of the Hanford site hydrochemistry data at the upcoming hydrology workshop. In my conversations with BWIP, I have framed the hydrochemistry effort as a work-in-progress, the discussion of which may benefit both BWIP and NRC.

After considering the comments contained in this letter, the comments elicited during the upcoming workshop and any pertinent information in the YIN comments recently forwarded to you, please proceed with preparing the final draft report.

In the interest of fostering communication between our hydrology contractors, please mail "information only" copies of your future technical products under this contract to Paul Davis, Division 6431, Sandia National Laboratories, P.O. Box 5800, Albuquerque, N.M., 87185. I have asked Neil to have Paul send copies of his technical products under FIN A1757 to you for your

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information. You need not send him copies of your monthly progress reports unless it contains technical work not documented elsewhere.

The action taken by this letter is considered to be within the scope of the current contract NRC-02-82-044. No changes to cost or delivery of contracted services and products are authorized. Please notify me immediately if you believe that this letter would result in changes to cost or delivery of contracted products.

Sincerely,

Enclosure

Matthew Gordon, Project Officer  
Hydrology Section  
Geotechnical Branch  
Division of Waste Management

Enclosures:  
2, As stated

DFC	:WMGT	:WMGT	:	:	:	:	:
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