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**Department of Energy**  
Richland Operations Office  
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Richland, Washington 99352

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96-SWT-333

Mr. Moses N. Jaraysi  
200 Area Unit Supervisor  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 West Fourth Avenue  
Kennewick, Washington 99336-6018

Mr. Joseph J. Witczak  
Unit Supervisor  
Regulatory and Technical Support  
State of Washington  
Department of Ecology  
P.O. Box 47600  
Olympia, Washington 98505-7600

Dear Messrs. Jaraysi and Witczak:

**A FINAL REPORT: LABORATORY TESTING OF GEOMEMBRANE FOR WASTE CONTAINMENT ENVIRONMENTAL PROTECTION AGENCY METHOD 9090**

Enclosed is the final report titled "Laboratory Testing of Geomembrane for Waste Containment EPA Method 9090" and Engineering Data Transmittal. This report was prepared to assist the State of Washington, Department of Ecology (Ecology) with the Resource Conservation and Recovery Act permitting efforts for the Low-Level Burial Grounds, located in the 200 East and 200 West Areas of the Hanford Facility. In addition, a supporting document entitled, WHC-SD-WM-TI-714, "High-Density Polyethylene Liner Chemical Compatibility for Radioactive Mixed Waste Trenches, Revision 0," provides a list of compatible and incompatible chemicals and a compilation of various available literature regarding chemical compatibility of high-density polyethylene liners.

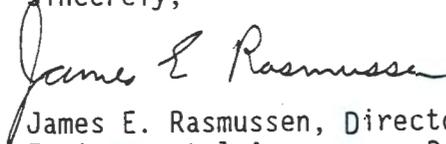


Messrs. Jaraysi and Witczak  
96-SWT-333

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Should you have any questions regarding the final report, please contact Cliff Clark, RL on (509) 376-9333, or William Adair, FDH on (509) 376-0428.

Sincerely,



James E. Rasmussen, Director  
Environmental Assurance, Permits,  
and Policy Division  
DOE Richland Operations Office



William D. Adair, Director  
Environmental Protection  
Responsible Party for  
Fluor Daniel Hanford, Inc.

Enclosure:

"A Final Report: Laboratory Testing  
of Geomembrane for Waste Containment  
EPA Method 9090," and WHC-SD-WM-TI-714,  
"High-Density Polyethylene Liner  
Chemical Compatibility for Radioactive  
Mixed Waste Trenches"

cc w/encl:

EDMC, H6-08

R. Jim, YIN

C. G. Mattsson, FDH

R. Pierce, RFSH

D. Powaukee, NPT

S. Price, FDH

J. Wilkinson, CTUIR

cc w/o encl:

W. D. Adair, FDH

D. Sherwood, EPA