

**ORISE**  
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

September 24, 2001

Emilio M. Garcia  
U.S. Nuclear Regulatory Commission  
Region IV  
Harris Tower  
611 Ryan Plaza Drive - Suite 400  
Arlington, TX 76011-8064

**SUBJECT: REPORT FOR ANALYSIS OF THE WATER SAMPLE FROM THE KERR-MCGEE TECHNICAL CENTER, OKLAHOMA CITY, OKLAHOMA (DOCKET NO. 40-8006; RFTA NO. 01-014)**

Dear Mr. Garcia:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received one water sample collected from the Kerr-McGee Technical Center on 8/3/01. The sample was initially screened by gamma spectroscopy (Procedure CP1 Revision 11) to determine if there was evidence of quantifiable concentrations of gamma-emitting radionuclides. Next, a sample aliquot was analyzed for gross alpha and beta activity (Procedures AP 1 Rev. 12 and CP3 Rev. 1) and for isotopic uranium by alpha spectroscopy (Procedures AP3 Rev. 15 and CP2 Rev. 10).

The gamma spectroscopy did not identify any quantifiable gamma-emitting radionuclides. The gross alpha result was  $69 \pm 10$  pCi/L. The gross beta result was  $11.5 \pm 5.2$  pCi/L. The alpha spectroscopy isotopic uranium results were  $43.9 \pm 5.1$  pCi/L for U-234,  $1.9 \pm 1.0$  pCi/L for U-235, and  $41.0 \pm 4.8$  pCi/L for U-238. The total uranium concentration was found to be  $86.8 \pm 7.1$  pCi/L.

Please contact me at (865) 241-3242 or Wade Ivey at (865) 576-9184 should you have any questions.

Sincerely,



Dale Condra  
Laboratory Manager  
Environmental Survey and  
Site Assessment Program

RDC:WPI:ar

Enclosure

cc: G. Purdy, NRC/NMSS/TWFN 7F27  
E. Knox-Davin, NRC/NMSS/TWFN 8A23  
W. Beck, ORISE/ESSAP  
E. Abelquist, ORISE/ESSAP  
T. Vitkus, ORISE/ESSAP  
File/793

P. O. BOX 117, OAK RIDGE, TENNESSEE 37831-0117

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