

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

September 24, 2001

OCT 1 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 ± 10 pCi/L. The gross beta result was 11.5 ± 5.2 pCi/L. The alpha spectroscopy isotopic uranium results were 43.9 ± 5.1 pCi/L for U-234, 1.9 ± 1.0 pCi/L for U-235, and 41.0 ± 4.8 pCi/L for U-238. The total uranium concentration was found to be 86.8 ± 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/TWEN 7F27
E. Knox-Davin, NRC/NMSS/TWEN 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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