

ORISE

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

November 8, 2002

NOV 18 2002

Mr. Rick Munoz
U.S. Nuclear Regulatory Commission
Region IV: DNMS:NMI
611 Ryan Plaza Drive
Suite 400
Arlington, TX 76011

SUBJECT: ANALYTICAL RESULT FOR TOTAL URANIUM ANALYSIS ON PIT SLUDGE SAMPLE COLLECTED FROM KERR-McGEE TECHNICAL CENTER, TULSA, OKLAHOMA (INSPECTION REPORT #040-08006 - 2002/02) [RFTA NO. 02-005]

Dear Mr. Munoz:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received one pit sludge sample on August 8, 2002, that you collected on August 7, 2002. The sample was initially analyzed for radium-226 and the natural thorium and uranium series by gamma spectroscopy (procedure CP1, Revision 11). The results were sent to you in a letter on September 26, 2002.

On October 21, 2002, during a telephone conversation, you requested that the sample be analyzed for total uranium by alpha spectroscopy (Non-routine Procedure AP11, Revision 0; Procedure CP2, Revision 10). An aliquot was analyzed with a resultant total uranium concentration of 3.29 ± 0.33 pCi/g. Total uranium is the sum of U-234, U-235, and U-238.

ESSAP's Quality Control (QC) procedures were followed for this analysis. The daily QC and detector background for the counting instrumentation used in the analysis were within acceptable limits. The QC files are available for your review upon request.

Please contact me at (865) 576-241-3242 or Wade Ivey at (865) 576-9184 with any questions or comments.

Sincerely,



Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC/WPI:ar

cc: G. Purdy, NRC/ESS/TWFN 7F27 W. Beck, ORISE/ESSAP
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