

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

November 3, 2006

Mr. William Snell  
U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Lisle, IL 60532-4351

**SUBJECT: LETTER REPORT FOR ANALYTICAL RESULTS FOR SAMPLE D-06-5-13, BATCH FIVE, AND SAMPLE D-06-7-01 FROM THE VICINITY OF THE DRESDEN GENERATING STATION, DRESDEN, ILLINOIS [INSPECTION REPORT NO. 050-00237/2006-010] (RFTA NO. 06-001)**

Dear Mr. Snell:

The Oak Ridge Institute for Science and Education (ORISE) received a request on September 19, 2006 from you by voice mail to analyze sample D-06-5-13 from batch five for total radiostrontium (Sr) which had been received on June 20, 2006. In a subsequent phone conversation, you indicated that the lab would be receiving an additional sample to be analyzed for Sr. The additional sample was received on September 27, 2006. You directed the lab to report all the results in one letter report. There was sufficient sample to analyze two 100 mL aliquots for each sample by AP4, Revision 13. The results of the analysis of two aliquots of D-06-5-13 were  $3.4 \pm 1.3$  pCi/L and  $3.2 \pm 1.4$  pCi/L. The results of the analysis of two aliquots of D-06-7-01 were  $4.8 \pm 1.2$  pCi/L and  $5.7 \pm 1.3$  pCi/L. The uncertainties of the measurements are reported at 2-sigma. The minimum detectable concentration (MDC) for the different aliquots was 1.8 pCi/L to 2.2 pCi/L, respectively. The gamma spectroscopy results (CP1, Revision 15) for D-06-7-01 for the routinely reported radionuclides for the task were all less than 10 pCi/L.

ORISE's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request.

My contact information is listed below. You may also contact Wade Ivey at 865.576.9184 with any questions or comments.

Sincerely,



Dale Condra, Manager  
Laboratory

RDC:WPI:km

c: B. Watson, NMSS/DWMEP/DD/SP 7E18  
E. Knox-Davin, NRC/NMSS/TWFN 8A23  
File 1694

E. Abelquist, ORISE  
S. Kirk, ORISE

Distribution approval and concurrence :	Initials
Technical Management Team Member	<i>AW for JSK</i>
Quality Manager	<i>ATP</i>

Voice: 865.241.3242

Fax: 865.241.3248

E-mail: CondraD@orau.gov