

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

June 3, 2005

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

**SUBJECT: ANALYTICAL RESULTS FOR SIX SOIL SAMPLES AND 16 SWIPE SAMPLES
FROM THE BATTELLE WEST JEFFERSON SITE, COLUMBUS, OHIO
[TAC NO. 070-0008/2005-001] (RFTA NO. 05-001)**

Dear Mr. McCann:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received six soil samples and 16 swipe samples on May 19, 2005 that were collected at the Battelle West Jefferson Site in Columbus, Ohio on May 17 and May 18, 2005. The soil samples were analyzed by gamma spectroscopy for cesium-137 (Procedure CP1, Revision 14). The gamma spectroscopy results are presented in Table 1. The swipe samples were analyzed by gas-flow proportional counting (Procedure CP3, Revision 2). The measured alpha activity and beta activity for each smear was below the requested alpha MDC of 9 dpm/swipe and the requested beta MDC of 15 dpm/swipe.

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

If you have any questions, please call me at (865) 241-3242 or Wade Ivey at (865) 576-9184.

Sincerely,



Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC:WPI:ar

Enclosure

cc: T. McLaughlin, NRC/NMSS/T-7E18 E. Abelquist, ORISE/ESSAP
E. Knox-Davin, NRC/NMSS/TWFN T8A23 A. Boerner, ORISE/ESSAP
File 1661

Distribution approval and concurrence:	Initials
Technical Management Team Member	<i>q/B</i>
Quality Manager	<i>ATP</i>

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

Operated by Oak Ridge Associated Universities for the U.S. Department of Energy



JUN 07 2005

ORISE TABLE 1

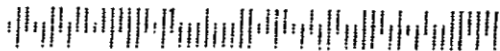
**CONCENTRATION OF CESIUM-137
IN SOIL SAMPLES
BY GAMMA SPECTROSCOPY
CP1, REVISION 14
BATTELLE WEST JEFFERSON
COLUMBUS, OHIO**

ESSAP Sample ID	NRC Region III Sample ID	Cs-137 Concentrations (pCi/g dry weight)^a
1661S0001	A	0.05 ± 0.02 ^b
1661S0002	B	0.01 ± 0.03
1661S0003	C	0.03 ± 0.01
1661S0004	D	0.12 ± 0.02
1661S0005	E	0.05 ± 0.05
1661S0006	F	0.05 ± 0.02

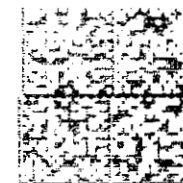
^aThe average MDCs for a one hour count of soil in a 0.5L Marinelli for Cs-137 is 0.03 pCi/g.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

Mc.19



DEPARTMENT OF SCIENCE AND EDUCATION
PO BOX 1000000 TENNESSEE 37203-0000



AT022007429
\$00.600
08 03 2005
Mailed From 37200
US POSTAGE

**Mr. Mike McCann
U. S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Lisle, IL 60532-4351**