

RECEIVED
REGION 1

August 27, 2003

2003 SEP -2 PM 1:30

Ms. Betsy Ullrich
 U.S. Nuclear Regulatory Commission
 Region I
 475 Allendale Road
 King of Prussia, PA 19406

SUBJECT: REPORT FOR ANALYSIS OF SMEAR SAMPLES FROM THE BROADWAY ELEMENTARY SCHOOL EXIT SIGN, CAMDEN, NEW JERSEY (INSPECTION REPORT NO. 99990001/2003-004) [RFTA 03-001]

Dear Ms. Ullrich:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received eleven smear samples that you collected on August 18, 2003 at Broadway Elementary School in Camden, New Jersey. The smear samples were counted for tritium using a liquid scintillation analyzer (Procedure AP2, Revision 13 and Procedure CP4, Revision 2). The analytical data are presented in Table 1.

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

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: T. McLaughlin, NRC/NMSS/TWFFN 7F27
 E. Knox-Davin, NRC/NMSS/TWFFN 8A23
 File/877

E. Abelquist, ORISE/ESSAP
 T. Vitkus, ORISE/ESSAP

Distribution approval and concurrence:	Initials	Date
Technical Management Team Member	TJV	8/27/2003
Quality Manager	GTP	8/27/2003

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

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



NMSS/RGNI MATERIALS-004

ORISE TABLE 1

CONCENTRATIONS OF TRITIUM
IN SMEAR SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP2, REVISION 13 AND CP4, REVISION 2
BROADWAY ELEMENTARY SCHOOL
CAMDEN, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Tritium ^a Concentrations (dpm/smear)
877R001-1	1	3,680 ± 140 ^b
877R001-2	2	1829 ± 91
877R001-3	3	223,300 ± 7,900
877R001-4	4	1,468 ± 74
877R001-5	5	430 ± 43
877R001-6	6	2,320 ± 110
877R001-7	7	576 ± 49
877R001-8	8	982 ± 65
877R001-9	9	6,450 ± 200
877R001-10	10	94,200 ± 2,600
877R001-11	11	38 ± 19

^aThe average MDC is 29 dpm/smear for a 5 minute count for smears.

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