

April 23, 2007

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

SUBJECT: LETTER REPORT FOR FIVE SMEAR SAMPLES FROM ABC LABS, INC. IN COLUMBIA, MISSOURI [INSPECTION REPORT NO. 030-05154/2007-001] (RFTA NO. 06-001)

Dear Mr. Bonano:

The Oak Ridge Institute for Science and Education (ORISE) received five smear samples associated with the ABC Labs, Inc. on April 13, 2007. The samples were analyzed for carbon-14 (C-14) using a liquid scintillation analyzer. The sample identifications and collection data are presented in Table 1 and C-14 data are presented in Table 2. The pertinent procedure references are provided in the specific tables.

ORISE's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request. Tritium was identified in smear sample ABC-07-04 at an estimated activity of 100 dpm. After discussing the issue with you on April 19, you decided not to calculate or report the tritium activity.

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: T. Carter, NMSS/DWMEP 7J8
E. Knox-Davin, NRC/NMSS/TWFFN 8A23
File 1740

E. Abelquist, ORISE
S. Kirk, ORISE

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

Voice: 865.241.3242

Fax: 865.241.3248

E-mail: Dale.Condra@orau.org

RECEIVED APR 26 2007

TABLE 1

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
ABC LABS, INC.
COLUMBIA, MISSOURI**

ORISE Sample ID	NRC Region III Sample ID	Collection Date	Collection Time
1740R0001-1	ABC-07-01	3/15/07	NDP ^a
1740R0001-2	ABC-07-02	3/15/07	NDP
1740R0001-3	ABC-07-03	3/15/07	NDP
1740R0001-4	ABC-07-04	3/15/07	NDP
1740R0001-5	ABC-07-05	3/15/07	NDP

^aNo data provided.

TABLE 2

CONCENTRATIONS OF CARBON-14
IN SMEAR SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP9, REVISION 3; CP4, REVISION 3
ABC LABS, INC.
COLUMBIA, MISSOURI

ORISE Sample ID	NRC Region III Sample ID	Radionuclide Concentrations, TPUs, and MDCs ^a (pCi/L)			
1740R0001-1	ABC-07-01	111	±	13 ^b	, 12
1740R0001-2	ABC-07-02	748	±	31	, 12
1740R0001-3	ABC-07-03	277	±	19	, 12
1740R0001-4	ABC-07-04	74	±	12	, 12
1740R0001-5	ABC-07-05	2.2	±	6.9	, 12.2

^aMDCs are after the comma.

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

MS-19

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION



McGraw-Hill

049J82013335
\$00.630
04/23/2007
Mailed From 37830
US POSTAGE

**Mr. Gene Bonano
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Lisle, Illinois 60532-4351**

