

February 22, 2019

KENNETH C. JANDA
DEAN, SCHOOL OF PHYSICAL SCIENCES

RE: December 2018 and January 2019 TEM Air Monitoring Results for Rowland Hall

Dear Dean Janda,

As you know, we have completed transmission electron microscopy (TEM) on four air samples. The results of this TEM analysis confirm:

1. The two 12.12.18 air samples taken outside the containment during the disturbance of non-asbestos containing materials (PCM result was above 0.01 f/cc) do not contain asbestos fibers.
2. The one 12.7.18 air sample taken inside the containment (PCM result was above 0.01 f/cc) when two other air samples were reported as overloaded does not contain asbestos fibers.
3. The one 1.22.19 air sample taken outside the containment (PCM result was 0.003 f/cc) in the 5th floor hallway does not contain asbestos fibers.

These results further demonstrate the air quality in Rowland Hall is safe and meets all applicable standards.

If you have any questions regarding the environmental health and safety of Rowland Hall, please don't hesitate to contact us via phone (**949.824.6889**) or email (**magomez@uci.edu**). After hours calls may be directed to 949.824.6200.

If you have any questions regarding the construction activities on the fifth floor of Rowland Hall, please contact Design and Construction Services Senior Project Manager Chris Schneider via email (**jcshne1@uci.edu**).

We look forward to the safe and successful completion of the Rowland Hall fire life safety improvement project. Please let us know if you have any questions.

Sincerely,



Marc A. Gomez
Assistant Vice-Chancellor
Environmental Health and Safety



Dick T. Sun
Associate Deputy Director
Environmental Health and Safety

Attachment

February 12, 2019

Susan Robb
 Environmental Health & Safety
 4600 Health Sciences Road
 University of California, Irvine
 Irvine, CA 92697

RE: Comparison of Sample Results by Phase Contrast Microscopy and Transmission Electron Microscopy (Draft)

Dear Ms. Robb:

Following in Table 1 is a comparison of air monitoring sample results of select samples collected from the 5th Floor of Rowland Hall during the Fire Life Safety construction related activities. The selected samples were analyzed by both Phase Contrast Microscopy (PCM) and Transmission Electron Microscopy (TEM). PCM identifies the total number of fibers in a sample but cannot distinguish between fiber types. On the other hand, TEM identifies the total number of fibers in a sample and can distinguish between asbestos and non-asbestos fibers.

Table 1 – Air Sample Results

Date	Sample #	Sample Locations	PCM Results (f/cc)	TEM Results Adjusted (f/cc)
12/7/18	3	Room 519	0.015	<0.0023 0% Asbestos
12/12/18	2	5 th Floor Hallway Roving Sample adjacent to Room 533	0.011	<0.0030 0% Asbestos
12/12/18	6	5 th Floor Hallway adjacent to Room 552A/BNB	0.039	<0.0028 0% Asbestos
1/22/19	6	5 th Floor Hallway adjacent to Rooms 580 & 581	0.003	<0.0018 0% Asbestos

(f/cc) fibers per cubic centimeter of air

The PCM analysis is performed in accordance with the National Institute for Occupational Safety and Health (NIOSH) 7400 Method - A Rules. The TEM analysis is performed in accordance with NIOSH 7402 Method.

The air samples were submitted under chain of custody procedures to LA Testing laboratory located at 5431 Industrial Drive in Huntington Beach, California (Tel: 714-828-4999). LA Testing laboratory is accredited by the National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP) and by the American Industrial Hygiene Association (AIHA). (Attachment A includes copies of the laboratory analytical reports)

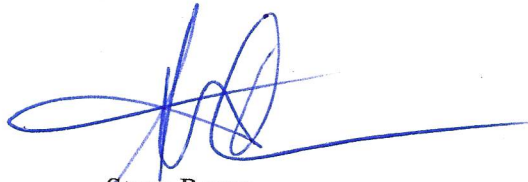
Based on the results of the TEM analysis of all four selected samples were found to be less than the Environmental Protection Agency (EPA) Clearance Criteria of <0.01 f/cc and no asbestos fibers were detected in the samples.

Omega appreciates the opportunity to provide this service to the University of California, Irvine. Please call me if you have any questions or require additional assistance.

Sincerely,



Navid Salari
Project Manager
Omega Environmental Services, Inc.



Steve Rosas
Principal
Omega Environmental Services, Inc