

The following samples were collected from Williamson Hall rooms:

- 310A, B, C
- 232
- 311B
- 314

LABORATORY REPORT

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SUBJECT: Particle Identification
SPECIMEN: Six Tapelifts
REFERENCE:

INTRODUCTION

Six tapelifts were received for analysis. They were marked as shown in the table below.

TAPELIFTS
WAL 310A
WAL 310B
WAL 310C
WAL 232
WAL 311B
WAL 314

The tapelifts were placed on clean microscope slides and immersed in acetone for about two hours and then removed. The slides with the tapelifts were rinsed with clean acetone as they were removed from the immersion tank. The tapelifts were allowed to dry for twenty minutes in a laminar flow Clean Work Station and then mounted using a synthetic resin (Shurmount). The completed mounts were analyzed using analytical light microscopy.

RESULTS

All the tapelifts had low particle loading, which indicated the areas had been recently cleaned. The tapelifts from room 310, 310A through 310C, contained natural minerals, paper fiber, clothing fiber, pollen, tire wear, plant parts, charred plant material, skin flakes, magnetite spheres, starch, wear metal, fungal spores, and a glass fiber. The glass fiber was on tapelift 310C and had been exposed to heat. It was not from ceiling tile or the HVAC system. It is probably part of the ambient background. No similar glass fiber was found on any of the six tapelifts that were part of this set of samples.

The other three tapelifts; 232, 311B, and 314; contained natural minerals, clothing fiber, paper fiber, starch, skin flakes, plant parts, pollen, insect debris, charred plant material, fungal spores, glass fiber, cleaning residues, and sawdust. There were 7, 1, and 3 short glass fibers and no long glass fibers on tapelifts 232, 311B, and 314 respectively. The glass fiber was all consistent with acoustic ceiling tile.

SAMPLE	Short Fiber	Long Fiber
WAL 310A	0	0
WAL 310B	0	0
WAL 310C	1	0
WAL 232	7	0
WAL 311B	1	0
WAL 314	3	0

All of the glass fiber was consistent with acoustic ceiling tile.

CONCLUSION

The tapelifts were all very clean. Only two of the tapelifts contained glass fiber above background levels, tapelifts WAL 232 and WAL 314.

Thank you for this opportunity to be of service. If I can provide any further assistance please contact me.

Signed: *Russ Crutcher*
E. R. Crutcher, Consultant