

## LABORATORY REPORT

**TO:** Chad Johnson  
EWU, EH+S  
312 Eagle Lane  
Martin Hall Room 002  
Chaney, WA 99004

**PHONE:** (509) 359-6455 **FAX:** (509) 539-4690 **E-MAIL:** [djohnson@ewu.edu](mailto:djohnson@ewu.edu)  
**SUBJECT:** Particle Identification  
**SPECIMEN:** Seven Tapelifts  
**REFERENCE:** JFK

### INTRODUCTION

Seven tapelifts were received for analysis. The tapelifts were marked as follows:

1	RM L23 JFK
2	JFK M04 F
3	JFK M14
4	JFK M22
5	JFK M23 C
6	JFK U02B
7	JFK Reference Area

### RESULTS

Tapelift 1, RML23, contained skin flakes, clothing fiber, paper fiber, natural minerals, plant parts, paint spheres, glass fiber, insect debris, starch, soot, and silica phytoliths. This sample did not have an elevated level of short glass fiber, 7 glass fibers per sq inch. There are 0 glass fibers longer than 50 microns.

Tapelift 2, JFK M04F, contained clothing fiber, natural minerals, skin flakes, ink, spores, plant fragments, paper fiber, glass fiber, starch, soot, bird feather barbules, and insect fragments. The sample contained 105 short glass fibers and 0 glass fiber longer than 50 microns. This is above the levels associated with health complaints.

Tapelift 3, JFK M14, contained skin flakes, clothing fiber, natural minerals, paper fiber, insect fragments, starch, bird feather barbules, paint spheres, metal flake, spores, tire wear, diatoms and glass fiber. There were 30 glass fibers per square inch and 1 long glass fiber. Thirteen or more glass fibers shorter than 50 microns is at a level associated with health complaints.

Tapelift 4, JFK M22, contained skin flakes, clothing fiber, natural minerals, paint spheres, pollen, wear metal, and glass fiber. This sample had an elevated level of short glass fiber, 21 glass fibers per sq inch. There are 0 glass fibers longer than 50 microns.

Tapelift 5, JFK M23 C, contained clothing fiber, skin flakes, natural minerals, metal flake, ink, starch, pollen, plant debris, and glass fiber. This sample had relatively low particle loading. It contained 1 short glass fiber per sq. inch.

Tapelift 6, JFK U02 B, contained clothing fiber, skin flakes, rubber wear, plant debris, natural minerals, metal wear and glass fiber. This sample had an elevated level of short glass fiber, 42 short glass fibers per sq. inch.

Tapelift 7, JFK Reference, contained clothing fiber, skin flakes, natural minerals, fungal fragments, starch, metal flake, diatoms, moth scale, plant fragments, and glass fiber. This sample had an elevated level of short glass fibers, 20 short glass fibers per sq. inch.

#### CONCLUSION

Tapelift 1 and 5 did not contain glass fiber at a level associated with health complaints. The remaining samples contained elevated levels of short glass fibers. 13 or more glass fibers shorter than 50 microns in length are associated with health complaints.

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

Signed: Heidie Crutcher  
Heidie Crutcher, Analyst

Signed: ERC  
E. R. Crutcher, Consultant