The following samples were collected from JFK Tapelifts:

- JFK-A
- JFK-B
- JFK-C
- JFK-D
- JFK-E
- JFK-F
- JFK-G

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Report #: 283-18
Date: August 23, 2018

LABORATORY REPORT

TO: Chad Johnson
EWU, EH+S
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PHONE: (509) 359-6455 **FAX:** (509) 359-4690 **E-MAIL:** djohnson@ewu.edu
SUBJECT: Particle Identification
SPECIMEN: Seven Tapelifts
REFERENCE:

INTRODUCTION

Seven tapelifts were received for analysis. They were simply marked as JFK with a letter to differentiate the samples.

TAPELIFTS
JFK-A
JFK-B
JFK-C
JFK-D
JFK-E
JFK-F
JFK-G

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

The tapelifts showed a significant impact of smoke from glassland and forest fires. The grassland fire dominated. In addition to the wildfire debris the tapelifts contained natural minerals, tire wear, paint spheres, plant parts, glass fiber, skin flakes, magnetite spheres, paper fiber, pollen, starch, paper fiber, wear metal, fungal spores, and flyash.

The amount of glass fiber on these tapelifts was quite high for most. The counts per square inch on the tapelifts in shown in the following table. Short glass fibers are those less than five hundred micrometers in length. These fibers are typically less than two hundred micrometers. Long glass fibers are those longer than five hundred micrometers. These rarely exceed two millimeters.

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SAMPLE	Short Fiber	Long Fiber
JFK-A	14	1
JFK-B	11	0
JFK-C	99	24
JFK-D	84	1
JFK-E	672	48
JFK-F	696	192
JFK-G	392	40

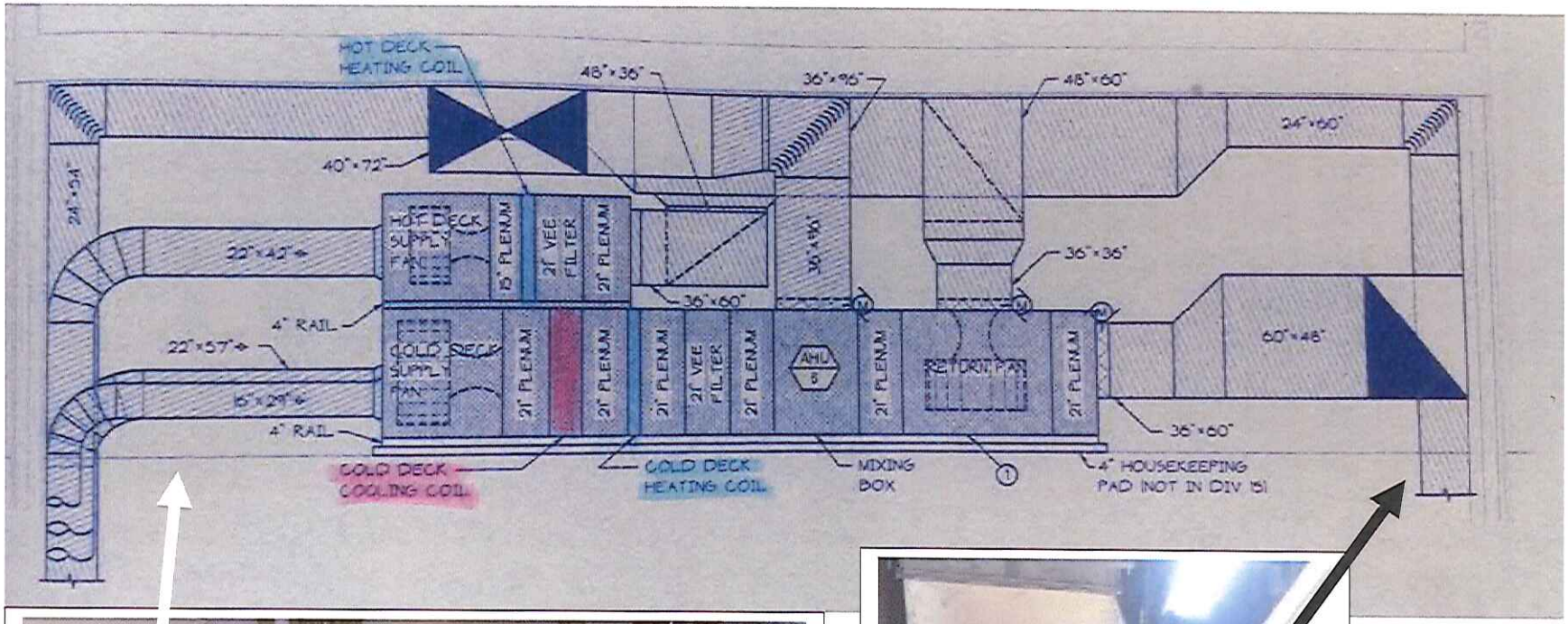
Most of the short glass fiber was consistent with acoustic ceiling tile. The long glass fiber included fibers with pink, yellow, and black resin. The black resin is typical of HVAC system soundboard. The pink and yellow resin are typical of blanket insulation.

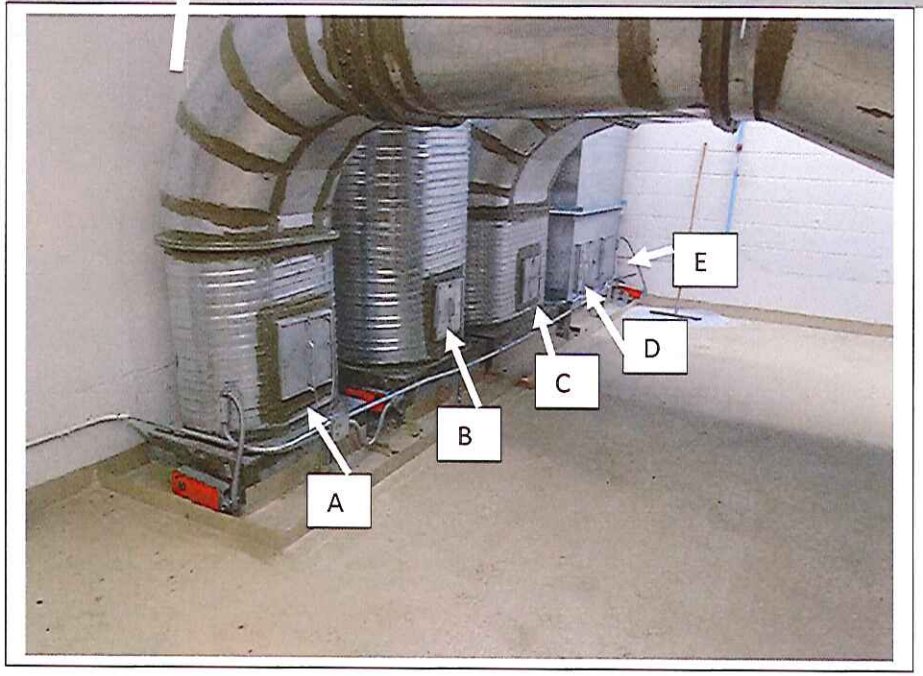
CONCLUSION

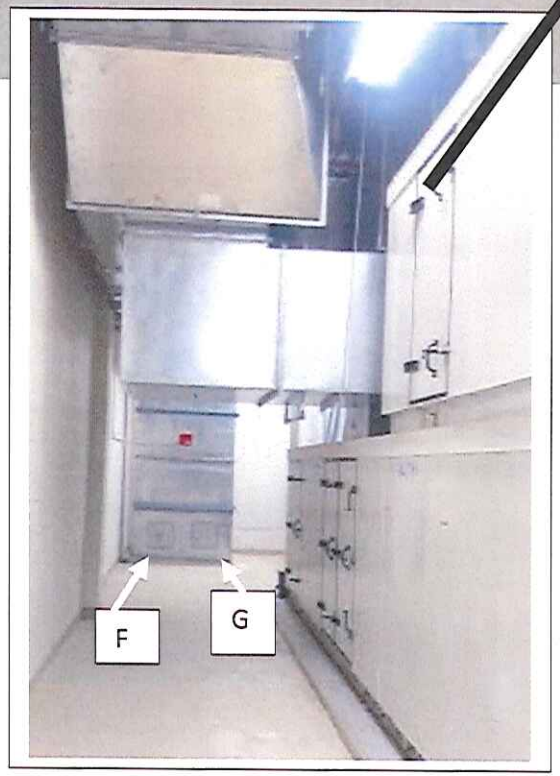
The tapelifts contain elevated levels of both short and long glass fiber.

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







(Letters) Corresponds to inside hatches where samples were collected.

Samples collected on August 23 and October 29