

The following samples were collected from JFK Library rooms:

- Lower Level
- Main Level
- Upper Level

The following tape lift samples were collected from the JFK Library, rooms/areas:

Lower Level

L03, L05, L23, L25, L37A, and L37B, L35

Main Level

M04 suite, M04A, M04B, M04D, M04E, M14, M18 (three samples), M20, M22, M23, M23C, M22, M26, M28,

M26, M28

Central area on the main level (see map at end of document for locations):

Circulation (Three Samples)

Reference (Three Samples)

Advising Desk (Gen Adv)

Plus Time Clock

Upper Level

U02B, U02C, U04, U06, U08, U12A, U12K (two samples), U18

JFK –A through JFK-G were collected from inside the main duct system. See picture

LABORATORY REPORT

TO: Ron Knutson
 Mountain Consulting
 9922 E. Montgomery Dr., Suite #9
 Spokane Valley, WA 99206

cc: Chad Johnson

PHONE: (509) 924-9236 **FAX:** () **E-MAIL:** rknutson@mountainconsultingllc.com
SUBJECT: Particle Identification djohnson@ewu.edu
SPECIMEN: 52 Tapelifts
REFERENCE: EWU-JFK

INTRODUCTION

Fifty-two tapelifts were received for analysis. This was part of an on-going study to control exposure to glass fiber. The tapelifts were designated as show in the table below.

TAPELIFTS						
JFK-A	JFK-B	JFK-C	JFK-D	JFK-E	JFK-F	JFK-G
L03	L05	L23	L37A	L37B	L35	
U02	U02B	U02C	U04	U06	U08	
U12K-1	U12K-2	U12K-3	U12A-1	U18A	U18B	
M08A	M14	M18	M18A	M18B	M20	
M23A	M23	M23C	M22	M26	M28	
WC Desk	Plus Time Ck	Gen Adv	Circulation-1	Circulation-2	Circulation-3	
Ref-1	Ref-2	Ref-3	M04	M04A	M04B	
M04C	M04D	M04E				

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 varied in particle loading from very low to moderate. Skin flakes, paper fiber, clothing fiber, natural minerals, wear metal, pollens, plant parts, feather barbules, and combustion residues were the most common particle types. A few of the tapelifts contain glass fiber well above background levels but still below the levels associated with health complaints. The one exception was tapelift U12A-1. It contained 19 glass fibers per square inch. Thirteen (13) or more glass fibers is associate with health complaints. The tables below show the number of glass fibers per square inch on each tapelifts. The "Long Glass Fibers" row shows the number of glass fibers per square inch over five hundred micrometers long.

TAPELIFTS	JFK-A	JFK-B	JFK-C	JFK-D	JFK-E	JFK-F	JFK-G
Glass Fibers	1	7	0	1	7	3	3
Long Glass Fibers	0	1	0	0	1	0	0

TAPELIFTS	L03	L05	L23	L37A	L37B	L35
Glass Fibers	1	2	2	1	1	0
Long Glass Fibers	0	0	0	0	0	0

TAPELIFTS	U02	U02B	U02C	U04	U06	U08
Glass Fibers	3	1	3	0	3	3
Long Glass Fibers	1	0	0	0	0	0

TAPELIFTS	U12K-1	U12K-2	U12K-3	U12A-1	U18A	U18B
Glass Fibers	0	0	0	19	0	2
Long Glass Fibers	0	0	0	1	0	0

TAPELIFTS	M08A	M14	M18	M18A	M18B	M20
Glass Fibers	2	1	0	0	2	4
Long Glass Fibers	0	0	0	0	0	0

TAPELIFTS	M23	M23a	M23c	M22	M26	M28
Glass Fibers	0	1	2	0	2	0
Long Glass Fibers	0	0	0	0	0	0

TAPELIFTS	M04	M04A	M04B	M04C	M04D	M04E
Glass Fibers	9	6	1	0	0	1
Long Glass Fibers	0	1	0	0	0	0

TAPELIFTS	WC Desk	Plus Time Ck	Gen Adv	Circulation-1	Circulation-2	Circulation-3
Glass Fibers	1	2	6	0	1	0
Long Glass Fibers	0	0	0	0	0	0

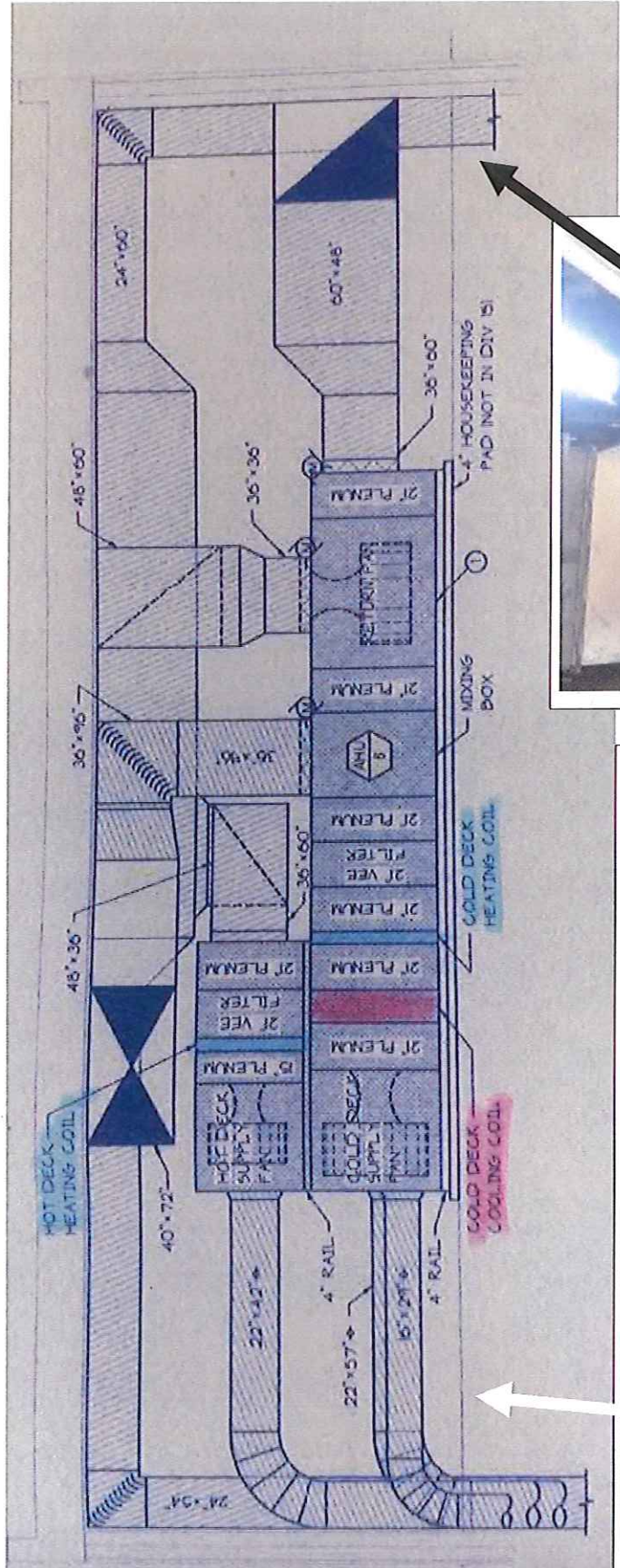
TAPELIFTS	Ref-1	Ref-2	Ref-3
Glass Fibers	0	0	3
Long Glass Fibers	0	0	0

CONCLUSION

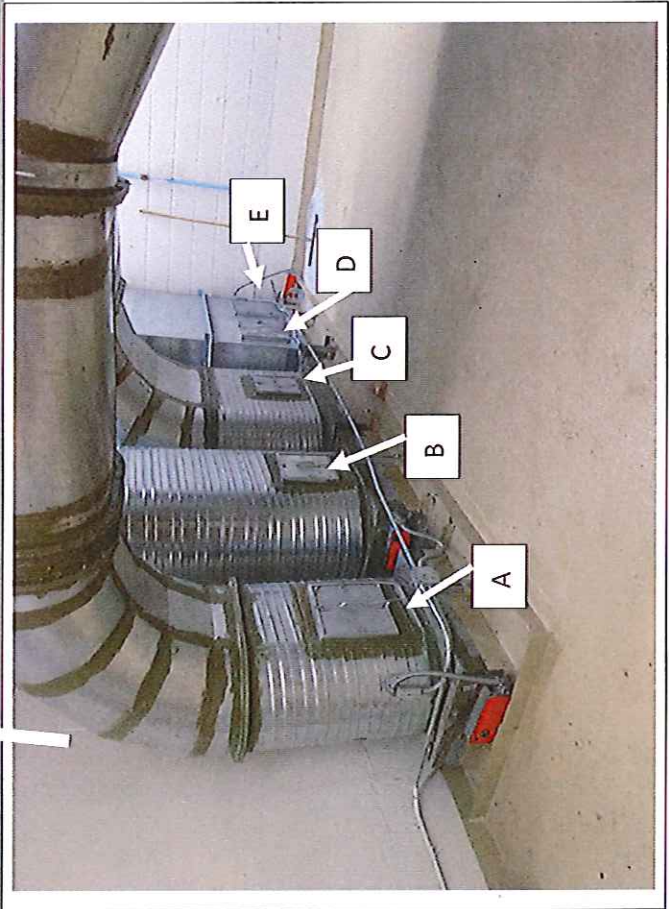
Nineteen of the fifty-two tapelifts contained glass fiber above background levels. One tapelift, U12A-1, contained glass fibers at levels associated with health complaints. Most of the tapelifts had low particle loading, which indicates recent cleaning.

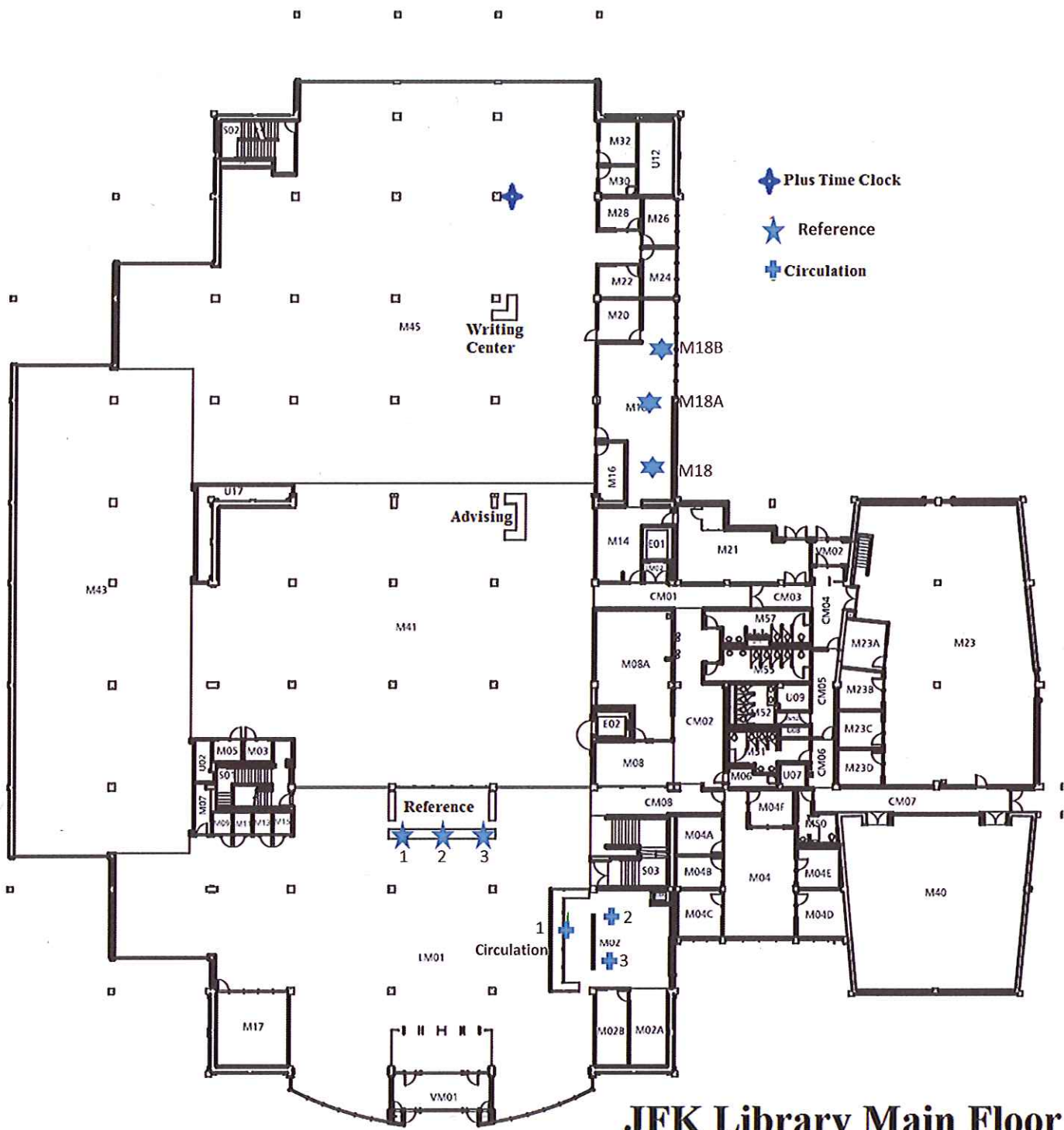
Thank you for this opportunity to be of service. If I can provide any further assistance please contact me.

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



(Letters)
 Corresponds to
 inside hatches
 where samples
 were collected.
 Samples collected
 on August 23 and
 October 29





JFK Library Main Floor