

The following samples were collected
from JFK Library rooms:

- Main Level
- Upper Level

Dates March 8th and March 13th

LABORATORY REPORT

TO: Mountain Consulting Services
Ron Knutson
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SUBJECT: Particle Identification
SPECIMEN: Nine Sets of Three Tapelifts
REFERENCE: JFK

INTRODUCTION

Nine sets of tapelifts were received to assess the presents of glass fiber and possible sources. Not limited to only identifying glass fibers we will also report on particles present throughout the samples.

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. The materials identified are listed in decreasing order of frequency, the most common materials first. The significance of a material's location in the list is not necessarily related to its health impact because some materials have a greater health impact at low levels than other materials do at high levels. In the case of glass fiber, the clearance level is typically considered to be 2 per square inch.

RESULTS

All the tapelifts were from surfaces that had been very recently cleaned. The total particle loading was very low for all tapelifts. The particles typically seen on these tapelifts included skin flakes, paper fiber, clothing fiber, natural minerals, plant parts, tire wear, starch, shoe wear, pollen, charred plant material, fungal spores, insect debris, cleaning debris, feather barbules, wear metals, wood sawdust, paint flakes, paint spheres, and glass fiber. The total number of short glass fibers glass fibers found on all twenty-six tapelifts was 13. The set meets the clearance criteria as a group.

Sample ID	Glass Fiber Count	Particles Present
M18 - Top of Cab "A"	X	Skin Flakes, Clothing Fibers, Natural Minerals
M18A - Top of Mont.	1	Skin Flakes, Clothing Fibers, Natural Minerals Pollen, Starch, Bird Feather Barbules
M18B - Windowsill	2	Resin, Skin Flakes, Clothing Fibers, Natural Minerals, Bird Feather Barbules, Starch
U12K-1 - Top of "L" Shaped Desk by D Nider	X	Skin flakes, Clothing Fibers, Natural Minerals (Low Particle Loading)
U12K-2 - Top of Work Desk	1	Skin Flakes, Clothing Fibers, Natural Minerals, Ink, Fungal Spores
U12KB - Shelf to be Processed	X	Paint (Low Particle Loading)
M22 - Top of R Mont	X	Skin Flakes, Clothing Fibers, Metal Flake, Natural Minerals
M26 - Top of R Speaker	X	Cotton Fibers, Paint
M28 - Top of Bookcase Behind Hans Solo	X	Skin Flakes, Clothing Fibers
WC - Writing Center	X	Skin Flakes, Clothing Fibers, Natural Minerals, Paint, Bird Feather Barbules
Advising - Advising Statt Only Mount	X	Skin Flakes, Clothing Fibers, Tire Wear, Shoe Wear, Natural Minerals, Plant Debris
Plus Time CK - Plus Time Clock	X	Metal Flake, Skin Flakes, Clothing Fibers, Tire Wear, Pollen
M04E - On Brown Tall Table	X	Natural Minerals, (Low Particle Loading)
M04B - On Tip of File Cab by Door	5	Metal Flakes, Cotton Fibers
U02B - Face of Phone	X	Paint, Clothing Fibers, Paper
U02C - On top of Key Bd S Tank	X	Skin Flakes, Clothing Fibers, Metal Flakes, Starch, Plant Debris, Pollen, Silica Phytoliths
U02 - On Key Bd Tray	4	Paper, Clothing Fibers, Natural Minerals, Plant Debris
U06 - TV on Leg	X	Cotton Fibers
U08 - Table by Keyboard	X	Skin Flakes, Cotton Fibers, Starch, Plant Debris
U04 - Face of Phone	X	Skin Flakes, Cotton Fibers, Starch, Fungal Spores
Ref-1 - Desk in Front of Key bd	X	Natural Minerals (Low Particle Loading)
Ref-2 - Center Section by CD Drop	X	Cotton Fibers (Low Particle Loading)
Ref-3 - Desk on Key bd	X	Skin Flakes, Clothing Fibers, Plant Debris, Starch
Cir-1 - Desk in fr of key bd from R. Looking at it	X	Skin Flakes, Paint, Cotton Fibers
Cir-2 - In Fr of Key bd	X	Skin Flakes, Clothing Debris, Insect Debris
Cir-3 - Sams 45 Cash Reg Face	X	Skin Flakes, Clothing Fibers, Natural Minerals, Bird Feather Barbules, Pollen

CONCLUSION

five out of the twenty-six samples contained 13 short glass fibers (less than 50microns in length) all together. M04B and U02 did not meet the 2 glass fibers per sq. inch clearance requirement. All the samples contained normal to low particle loading.

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: EC
E.R. Crutcher, Consultant

Company: Mountain Consulting Services
 Contact: Ron Knutson
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CHAIN OF CUSTODY RECORD
Microlab Northwest
 7609 140th Pl NE, Redmond, WA 98052
 Phone: (425) 885-9419
 MLNW LOG # 46-12

Phone: 509 924 9236 FAX: 509 924 2287
 E-Mail: rknutson@mountainconsultingllc.com
 PO#: _____ Job Reference: JPH

PRIORITY: 24 hour One Week Four Weeks
 (CIRCLE ONE)

SAMPLE ID	DESCRIPTION	ANALYSIS REQUESTED	Collected	
			Date	Time
MO4E	1" on Brown T-11 Table	PERKLE 2D	3/8	
MO4B	1" on top of file Cab by door	"	3/8	
MO4D	1" on top of wood file Cab by door	"	3/8	
MO2B	1" on face of Phone	"	3/8	
MO2C	1" on top of Keybd stand	"	3/8	
MO2	on Keybd Tray	"	3/8	
MO6	under TV on leg	"	3/8	
MO8	Table by Keyboard	"	3/8	
MO4	Face of Phone	"	3/8	
Ret-1	Desk in front of Keybd	"	3/8	
Ret-2	center section by Ch drop	"	3/8	
Ret-3	Desk in dr of Keybd	"	3/8	
CDR-1	Desk in dr of Keybd and drop R looking @ IT	"	3/8	
CDR-2	Entry of Keybd	"	3/8	
CDR-3	Sams 45 with Ray face	"	3/8	

Relinquished By: Chad Johnson Date/Time: 3/19/19
 Received By: [Signature] 3/20/19
 Relinquished By: _____ Date/Time: _____
 Received By: _____

Cab = Cabinet
mont = monitor
cd = cord drop

Company: Mountain Consulting Services
 Contact: Roy Knutson
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MLNW LOG #
86-91

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 PO#: _____ Job Reference: JFK

PRIORITY: 24 hour One Week Four Weeks
 (CIRCLE ONE)

SAMPLE ID	DESCRIPTION	ANALYSIS REQUESTED	Collected	
			Date	Time
M18	Top of Rite Cab "A"	Part 156321	3/13	
M18A	Top of mont	"	3/13	
M18B	Washbasin sill	"	3/13	
M12K-1	Top of "L" shaped desk by divider	"	3/13	
M12K-2	Top of wood desk	"	3/13	
M12KB	Shelf to be processed	"	3/13	
M22	Top of R mont	"	3/13	
M26	Top of OR Spokane	"	3/13	
M28	Top of Book case behind Hen's 5/6	"	3/13	
WC	Writing Center	"	3/13	
ADVISING	Advising Station by window	"	3/13	
plus time clock	Plus time clock	"	3/13	

Relinquished By: Chris Dunsen Date/Time: 3/9/19
 Received By: A. Galbraith 3/20/19
 Relinquished By: _____ Date/Time: _____
 Received By: _____

