Torres Rojas, Genara FOIA 13078

From: kaufman@lawlynch.com
Sent: Thursday, March 29, 2012 12:17 PM
To: Duffy, Daniel
Cc: Torres Rojas, Genara; Van Duyne, Sheree
Subject: Freedom of Information Online Request Form

Information:

First Name: Jason
Last Name: Kaufman
Company: Lynch Daskal Emery LLP
Mailing Address 1: 264 W. 40th Street
Mailing Address 2:
City: New York
State: NY
Zip Code: 10018
Email Address: kaufman@lawlynch.com
Phone: 212 710-0025
Required copies of the records: Yes

List of specific record(s):
I request copies of the following documents: 1 Documents reflecting the dates of construction of the American Airlines terminal andor American Airlines air freight buildingshangars at JFK International Airport. 2 Documents reflecting the dates of any construction-renovation work performed to the American Airlines terminal andor American Airlines air freight buildingshangars at JFK International Airport between 1970 and 1980. 3 Documents, such as abatement documents, asbestos assesment studies conducted in the 1980s and 1990s, and final manufacturerproduct identification sheets, reflecting any and all asbestos-containing products that were used in the construction andor renovation of the American Airlines terminal andor American Airlines air freight buildingshangars at JFK International Airport. Thank you. Regards, Jason Kaufman

THE PORT AUTHORITY OF NY & NJ

FOI Administrator

April 29, 2013

Mr. Jason Kaufman
Lynch Daskal Emery LLP
264 West 40th Street
New York, NY 10018

Re: Freedom of Information Reference No. 13078

Dear Mr. Kaufman:

This is a response to your March 29, 2012 request, which has been processed under the Port Authority's Freedom of Information Code (the "Code", copy enclosed), for copies of records related to American Airlines Terminal and/or American Airlines Air Freight Buildings Hangar at JFK between 1970 and 1980.

Material responsive to your request and available under the Code can be found on the Port Authority's website at http://www.panynj.gov/corporate-information/foi/13078-O.pdf.

Certain material responsive to the request is exempt from disclosure under exemptions (1) and (4) of the Code.

Please refer to the above FOI reference number in any future correspondence relating to your request.

Very truly yours,

Ann L. Qureshi
FOI Administrator

Enclosure

225 Park Avenue South
New York, , NY 10003
T: 212 435 3642 F: 212 435 7555

05/08/91

STANDARDS AND COMPLIANCE UNIT

ASBESTOS ABATEMENT ACTIVITIES

JOB NUMBER	FACILITY	AREA	CONTRACTOR	CONTRACT #	JOB STATUS	LANDFILL	PROC/ SPEC	BULK SAMPLES	DRAWINGS	EPA NOTIF	EPA STATUS	WASTE AMOUNT (CYDS)	WASTE STATUS	AIR TEST	FINAL AIR TEST	LOGS MNT,RE,AMCD M1, M2, M3	REQUEST STATUS
															NO		
				Y-6122A			YES	YES	YES	[illegible]	OK	200	OK				
215.099	JFK	AMERICAN AIRLINES AIRBRIDGE CANOPIES	R.LARSON/HYGIENETICS	Y-6202	COMP- /	PEKIN	YES	YES	YES	02/28/90	P	P	P	NO	NO		STAT
215.129	JFK	AMERICAN AIRLINES FEDERAL INSPECTION AREA & CONNECTING RESTROOMS	AOVATEX	Y-6060K	COMP-11/90	S & S	YES	YES	*	11/19/90	OK	80	P	YES	YES	M-1 M-3	OK
215.130	JFK	BUILDING # 56 AMERICAN AIRLINES, GATE 14 TI ROOM	DKP	Y-6060L	COMP-09/90	ROE CREEK	NO	NO	YES	10/15/90	OK	5	P	NO	NO		STAT
							YES	NO						YES	YES	M-3	
215.136	JFK	AMERICAN WEST 3RD FLOOR VAT REMOVAL	DKP	Y-6266A	COMP-10/90	VALLEY	YES	NO	NO	10/31/90	OK	6	P	YES	YES	M-1 m-3	STAT
							NO	NO	NO	[illegible]							

05/08/91

STANDARDS AND COMPLIANCE UNIT

ASBESTOS ABATEMENT ACTIVITIES

JOB NUMBER	FACILITY	AREA	CONTRACTOR	CONTRACT #	JOB STATUS	LANDFILL	PROC/ SPEC	BULK SAMPLES	DRAWINGS	EPA NOTIF	EPA STATUS	WASTE AMOUNT (CYDS)	WASTE STATUS	AIR TEST	FINAL AIR TEST	LOGS MNT,RE,AMCD M1, M2, M3		REQUEST STATUS
215.158	JFK	AMERICAN AIRLINE - HANGER 10, MECHANICAL ROOM # 5	ADVATEX	Y-6340A	COMP-02/91	P	NO	NO	NO	/ /	*	20	P	NO	NO			STAT
215.024	LGA	AMERICAN AIRLINES-VARIOUS LOCATIONS OF CT8, BAGGAGE CLAIM SECOND LEVEL AREA, WEST WING DEPARTURE LEVEL	ADVATEX	G-1628	COMP-04/90	ATHENS HOC	YES	YES	YES	01/01/89	*	1012	OK	YES	NO	M-1	M-3	OK

ASBESTOS MANAGEMENT AND COMPLIANCE DIVISION
ASBESTOS ABATEMENT ACTIVITIES

A	CONTRACTOR	CONTRACT #	JOB STATUS	LANDFILL	PROC/ SPEC	BULK SAMPLES	DRAWINGS	EPA NOTIF	EPA STATUS	WASTE AMOUNT (CYDS)	WASTE STATUS	AIR TEST	FINAL AIR TEST	LOGS MNT, RE, AMCD M1, M2, M3	REQUES STATUS
Y AIRLINES ROOF ABOVE AREA	P	Y-6060G	COMPLETE	P	NO	NO	NO	/ /	P	P	P	NO	NO		STAT

01/03/91

ASBESTOS MANAGEMENT AND COMPLIANCE DIVISION

ASBESTOS ABATEMENT ACTIVITIES

JOB NUMBER	FACILITY	AREA	CONTRACTOR	CONTRACT #	JOB STATUS	LANDFILL	PROC/ SPEC	BULK SAMPLES	DRAWINGS	EPA NOTIF	EPA STATUS	WASTE AMOUNT (CYDS)	WASTE STATUS	AIR TEST	FINAL AIR TEST	LOGS MNT, RE, AMCD M1, M2, M3	REQUEST STATUS
215.118	JFK	AMERICAN AIRLINES AIRCRAFT MAINTENANCE AREA	KAN KLEAN INC/HYGIENETICS	Y-6060F	ON HOLD	P	NO	NO	NO	06/30/90	P	P	P	NO	NO		N/A

CHRONO FILE

THE PORT AUTHORITY OF NY & NJ **Memorandum**

TO: Paul Fernandez, Tenant Liaison
FROM: Philip A. Taylor
DATE: March 11, 1991
SUBJECT: APPROVAL OF ASBESTOS ABATEMENT SUBMITTALS: JOHN F. KENNEDY INTERNATIONAL AIRPORT - AMERICAN AIRLINES, BUILDING #57 JOB NUMBER 215.118, Y-6060F

COPY TO: K. Avenoso, M. Capasso, N. Chanfrau, T. Fontanetta, M. Jakubek, P. Leahy

Please be advised that based upon a final review of the asbestos abatement work site procedures, drawings and certifications submitted by KKI and Hygienetics, for the subject contract, the requirements of the Port Authority's asbestos abatement specification as well as applicable regulatory requirements have been satisfied. Therefore, as it pertains to the asbestos abatement portion of the subject contract, site work is authorized to commence.

The Asbestos Management Division has issued Asbestos Abatement Permit Placard, no. JFKIA-060-91 which must be conspicuously posted on the license board. Any violation, non-compliance or deviation from this approved procedure will result in permit revocation and suspension of work pending corrective action.

If you have any questions, please contact me at PATC (201) 963-7487.

Philip A. Taylor, Administrator
Asbestos Management Division

PAT/lb

CLOSED FILE

THE PORT AUTHORITY OF NY & NJ

Memorandum

TO: Paul Fernandez, Tenant Liaison
FROM: Philip A. Taylor
DATE: March 6, 1991
SUBJECT: REVIEW OF ASBESTOS ABATEMENT CONTRACTOR'S SUBMITTAL: JOHN F. KENNEDY INTERNATIONAL AIRPORT. AMERICAN AIRLINES, BUILDING #57, JOB #215.118, T.6060F

COPY TO: K. Avenoso, N. Chanfrau, T. Fontanetta, H. Howie, M. Jakubek, M. Kopelowicz, P. Leahy

Please find attached the Asbestos Management Division's copy of Port Authority form 2032-11/58, "Review of Plans and Specifications," outlining the submittal deficiencies with KKI and DKP's plans to abate the subject location.

No work, as defined in New York City Local Law #76 or New Jersey Sub-Chapter 8, will be permitted to start without approval from this office. Upon the acceptance of KKI and DKP's work site procedures, drawings, and associated certifications and licenses, a "Port Authority of New York and New Jersey Asbestos Abatement Permit Placard" will be issued.

If you have any questions, please contact Egan Richards at (718) 244-6464 or myself at PATC (201) 963-7487.

Philip A. Taylor, Administrator
Asbestos Management Division

PAT/lb
Att.

CHRONO FILE

THE PORT AUTHORITY OF NY & NJ **Memorandum**

TO: Paul Fernandez, Tenant Liasion
FROM: Philip A. Taylor
DATE: February 20, 1991
SUBJECT: APPROVAL OF ASBESTOS ABATEMENT SUBMITTALS: JOHN F. KENNEDY INTERNATIONAL AIRPORT - AMERICAN AIRLINES, HANGAR #10, JOB #215.158, Y-6140A

COPY TO: K. Avenoso, M. Capasso, N. Chanfrau, J. Davison, T. Fontanetta, M. Jakubek, M. Koplowicz

Please be advised that based upon a final review of the asbestos abatement work site procedures, drawings and certifications submitted by Advatex/Hygienetics, for the subject contract, the requirements of the Port Authority's asbestos abatement specification as well as applicable regulatory requirements have been satisfied. Therefore, as it pertains to the asbestos abatement portion of the subject contract, site work is authorized to commence.

The Asbestos Management and Compliance Division has issued Asbestos Abatement Permit Placard, no. JFKIA-059-91 which must be conspicuously posted on the license board. Any violation, non-compliance or deviation from this approved procedure will result in permit revocation and suspension of work pending corrective action.

If you have any questions, please contact me at PATC (201) 963-7487.

Philip A. Taylor, Administrator
Asbestos Management and
Compliance Division

PAT

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

ASBESTOS WORK ORDER
REQUEST FORM

TO: Henry Howie, Resident Engineer, JFK
FROM: George A. Jensen
DATE: May 30, 1991
SUBJECT: JFK - ASBESTOS ABATEMENT FOR AMERICAN AIRLINES TERMINAL BUILDING #57
REFERENCE: JFK-215.550 Asbestos Renewal via Work Order
COPY TO: B. Abramowitz, K. Apgar, S. Benjamin, G. Ciana, C. Clancy, S. DeLuise, J. Giordano, R. Peduto, R. Raczynski, [redacted], L. Vernon

PURPOSE: You are requested to prepare an Asbestos Work Order under the above referenced Contract (JFK-215.550) for the provision of 71 ceiling openings, where asbestos fireproofing is above but not in the ceiling, in the American Airlines Terminal Building #57.

SCOPE: The work consists of removing several ceiling tiles at each location, vacuum cleaning the area above the ceiling around the opening and then closing the ceiling after the inspection of the structure above has been performed by others.

REASON FOR ABATEMENT: To assist the Structural Integrity Inspection by the Quality Assurance Division of the Engineering Department. This work was approved as Work Order 21 under the former asbestos call in contract JFK 215.550. The established earliest start date is May 14, 1990.

Please use Asbestos Control Cost Recovery Code No. 215.551 and initiate the actual work order.

By Copy of this memo, the Environmental Management Division is requested to assign an "Asbestos Safety Technician" as required.

If you have any questions or comments, please contact Gary Ciana (facility) on telephone 244-3662 or Sal DeLuise (Resident Engineer's Office) on telephone 656-7380.

Barry Abramowitz

George A. Jensen, Manager
Airport Facilities Division
Kennedy International Airport

ASBESTOS MANAGEMENT DIVISION

ACTIVITIES FROM 01/01/92 THROUGH 04/31/92

AVIATION DEPARTMENT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	PLACARD	START DATE	END DATE	EPA START DATE	EPA END DATE
T	215.135	Y-6158A	JFK	HANGAR #10		AMERICAN AIRLINES	NATIONAL ABATEMENT CORPORATION	JFK-109-92	03/09/92	03/23/92	03/09/92	03/23/92

ASBESTOS MANAGEMENT DIVISION

ACTIVITIES FROM 01/01/92 THROUGH 04/31/92

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	PLACARD	START DATE	END DATE	EPA START DATE	EPA END DATE
PA	215.197		JFK	57		AMERICAN AIRLINES - WEST PUBLIC RESTROOMS	NATIONAL ABATEMENT CORPORATION	JFK-119-92	03/25/92	05/05/92	03/25/92	05/02/92

ASBESTOS MANAGEMENT DIVISION
ACTIVITIES FROM 01/01/92 THROUGH 04/31/92

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	PLACARD	START DATE	END DATE	EPA START DATE	EPA END DATE
PA	215.569		JFK	51 - 60		M.E.R. DOMESTIC HOT WATER TIE-INS	ASBESTOS CONTROL SERVICES, INC.	JFK-103-92	01/27/92	02/07/92	01/28/92	02/07/92
PA			JFK	HANGAR 10		AMERICAN AIRLINES, MER #3-AHV 7 (TENANT MAINTENANCE PROJECT)	ASBESTOS CONTROL SERVICES, INC.	JFK-093-92	01/15/92	02/03/92	01/15/91	02/04/91

AVIATION DEPARTMENT

JOB # / CONTRACT #	FACILITY	BUILDING, FLOOR, LOCATION	PERMIT #	EPA START DATE	PROJECT COMPLETE DATE	JOB STATUS	PLAN REVIEW MEMO	PLAN ACCEPT MEMO	VARIANCE REQUEST MEMO	COPY OF AMD PLACARD	EPA NOTIF/ RENOTIF	PROCE- DURES	DRAW- INGS	CHECK LISTS	WASTE INSPEC	AIR SMPLE	BULK SMPLE	FINAL AIR SMPLE	CLEAR MEMO	FINAL INSPEC MEMO	WASTE MANIF	OSHA AIR MONIT	RE NARR	FINAL WORK REPRT	MISC DATA
215.118	JFK	BUILDING: 57, AMERICAN AIRLINES, AIRCRAFT MAINTENANCE	JFK-064-91	04/03/91	06/10/91										X	X	X		X	X		X	X	X	X
215.133 Y-6060M	JFK	BUILDING: 57, AMERICAN AIRLINES, TERMINAL EXPANSION, GATE 6 STAIRWAY	JFK-065-91	04/09/91	05/01/91	COMPLETED	X	X																	
215.158	JFK	BUILDING: HANGAR 10, AMERICAN AIRLINES, MECHANICAL ROOM #5	JFK-059-91	02/15/91	02/26/91	COMPLETED													X						
215.168 Y-6060N	JFK	BUILDING: 57, AMERICAN AIRLINES ZONE 3 BAGGAGE AREA	JFK-066-91	04/29/91	05/30/91	COMPLETED		X							X			X	X						
215.169 Y-6060P	JFK	BUILDING: 57, AMERICAN AIRLINES, ZONE 2 TICKET LOBBY	JFK-071-91	06/02/91	06/07/91	COMPLETED		X				X					X								

AVIATION DEPARTMENT

JOB # / CONTRACT #	FACILITY	BUILDING, FLOOR, LOCATION	PERMIT #	EPA START DATE	PROJECT COMPLETE DATE	JOB STATUS	PLAN REVIEW MEMO	PLAN ACCEPT MEMO	VARIANCE REQUEST MEMO	COPY OF AMD PLACARD	EPA NOTIF/ RENOTIF	PROCE- DURES	DRAW- INGS	CHECK LISTS	WASTE INSPEC	AIR SMPLE	BULK SMPLE	FINAL AIR SMPLE	CLEAR MEMO	FINAL INSPEC MEMO	WASTE MANIF	OSHA AIR MONIT	RE NARR	FINAL WORK REPRT	MISC DATA
215.178 Y-6422A	JFK	BUILDING: 57, AMERICAN AIRLINES, AIRCRAFT MAINTENANCE RENOVATIONS	JFK-080-91	10/07/91	10/29/91	COMPLETED	X	X		X	X	X	X	X				X	X		X	X		X	X
2[illegible]51 215.550	JFK	BUILDING: 57, AMERICAN AIRLINES TERMINAL, CEILING ACCESS OPENINGS THROUGHOUT BUILDING	JFK-075-91	08/19/91	08/30/91	COMPLETED		X		X		X	X		X	X					X	X	X	X	
215.559 215.550	JFK	BUILDING: 57, FLOOR: CONCOURSE, MECHANICAL ROOM	JFK-073-91	06/24/91	06/28/91	COMPLETED													X					X	

TOP 150 LIST

ASBESTOS PRODUCTS

DEPARTMENT	FACILITY	AREA	BUILDING	BUILDING NAME	JOB NUMBER	PRODUCT	SQUARE FEET	LINEAR FEET	TYPE OF ASBESTOS	COMPONENTS OF ASBESTOS PRODUCT
AVIATION	JFK	BASEMENT, GROUND LEVEL - BAGGAGE, 1ST FLOOR - PUMP ROOM, 2 ND FLOOR - LOBBY AND CUSTOMS	057	AMERICAN AIR UNIT TERMINA		FP	197100	0	CHRYSOTILE	GRANULAR MINERALS 0 TO 15% CHRYSOTILE 5 TO 40% - MICA 0 TO 70% - BINDER 5 TO 50% - GRANULAR MINERALS 0 TO 15% - WOOL 0 TO 75%

TOP 150 LIST

ASBESTOS PRODUCTS

DEPARTMENT	FACILITY	AREA	BUILDING	BUILDING NAME	JOB NUMBER	PRODUCT	SQUARE FEET	LINEAR FEET	TYPE OF ASBESTOS	COMPONENTS OF ASBESTOS PRODUCT
AVIATION	JFK	3 RD FLOOR	010	AMERICAN AIR HANGAR 10		FP	104932	0	AMOSITE	AMOSITE 0 TO 30% - WOOL 0 TO 60% - CELLULOSE 0 TO 30% - MICA 0 TO 50% - BINDER 10 TO 20% - GYPSUM 25 TO 30%

TOP 150 LIST

ASBESTOS PRODUCTS

DEPARTMENT	FACILITY	AREA	BUILDING	BUILDING NAME	JOB NUMBER	PRODUCT	SQUARE FEET	LINEAR FEET	TYPE OF ASBESTOS	COMPONENTS OF ASBESTOS PRODUCT
AVIATION	JFK	SOUTH HANGAR	010	AMERICAN AIRLINES HANGAR		PIPE	0	4650		16% AVG -

H+GCL
Environmental Scientists and Engineers

261 Madison Avenue • New York, NY 10016
(212) 983-8510 • FAX: (212) 983-8795

April 20, 1992

Phase I

Mr. Michael Capasso, PE
Resident Engineers Office
J.F.K. International Airport
Building 14
Jamaica, NY 11430

Re: American Airlines - West Public Bathrooms
Asbestos Removal, T.A.A. Y-6465A

Dear Mr. Capasso:

We are attaching the final air clearance sampling results for the above mentioned project. This work involved the removal of sprayed-on fireproofing and pipe insulation from the West Public Bathrooms in Building #57.

As the laboratory results indicate all samples taken after removal and cleaning tested below 0.010 fibers per cubic centimeter. All samples were analyzed using N.I.O.S.H. Polarized Light Microscopy, method 7400 "A" rules. All sampling followed New York State Industrial Code Rule 56 regulations. We certify that this area is ready for reoccupation.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

H+GCL

Paul Dwyer

For Gary Pelletier
Project Director

cc: Mr. Scott Slaughter- American
Mr. Tony Fontanetta - PA/AMD

GP#2/L0097

PA LAW DEPARTMENT
64437

K1812

ASBESTOS AIR SAMPLING RECORD

DATE: 4/17/92

BLDG. & PROJECT NAME: American Airlines Building 57 JFK West Public Bathroom

	SAMPLE I.D. NO.	TYPE *	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	04179218401	PCM-E	7	Inside work area adjacent to Vision window
2	04179218402	PCM-E	7	Inside work area adjacent to Sink area
3	04179218403	PCM-E	7	Inside work area adjacent to Sink area
4	04179218404	PCM-E	7	Inside work area center of room.
5	04179218405	PCM-E	7	Inside work area next to entrance
6	04179218406	PCM-I	7	Field Blank #1
7	04179218407	PCM-I	7	Field Blank #2
8				
9				
10				

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 4/17/92
JOB NO.: 7021-36 BATCH NO.:
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE: 4/17/92 TIME COMPLETED: 1140

DELIVERED TO LAB BY: Hand Delivered by Bill Birnb
LAB NAME: C.T.S.
RECEIVED BY: Karen Losnedall
DATE: 4/17/92 TIME: 1:00 pm INITIALS: KL
ANALYST: Louis Allen SCOPE #: MEM
DATE COMPLETED: 4/17/92 TIME
ANALYSIS METHOD: NIOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA = _____ MM²; FIELD AREA = _____ MM²

	PUMP I.D. NO.	FLOW METER I.D. NO.	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1	18997	02281	12.3	12.3	12.3	0900	1140	160	1968					Cu.cu 2	
2	18998	02282	12.3	12.3	12.3	0900	1140	160	1968					Cu.cu 2	
3	18999	02281	12.3	12.3	12.3	0900	1140	160	1968					Cu.cu 2	
4	19000	02287	12.3	12.3	12.3	0900	1140	160	1968					Cu.cu 2	
5	19001	02281	12.3	12.3	12.3	0900	1140	160	1968					Cu.cu 2	
6	19002	—	B	L	A	N	K	#1	—					Lwd	
7	19003	—	B	L	A	N	K	#2	—					Lwd	
8															
9															
10															

SPECIAL COMMENTS: Please Fax Results to H+GCL and Jeff Enilo Port Authority (718) 244-6450

* SAMPLE TYPE CODES

PCM = PHASE CONTRAST MICROSCOPY
TEM = TRANSMISSION ELECTRON MICROSCOPY
SEM = SCANNING ELECTRON MICROSCOPY
A = PERSONAL EXPOSURE SAMPLE
B = WORK AREA CLEARANCE
C = PREABATEMENT BACKGROUND
D = OUTSIDE WORK AREA
E = INSIDE WORK AREA
F = AIR QUALITY/ENVIRONMENTAL
G = HEPA EXHAUST DISCHARGE
H = DECONTAMINATION FACILITY
I = BLANK SAMPLE

** WORK AREA ACTIVITY CODES

1 = PREABATEMENT BACKGROUND
2 = PREPARATION OF WORK AREA
3 = ASBESTOS REMOVAL WORK
4 = CLEAN UP OF WORK AREA
5 = WASTE REMOVAL
6 = GLOVE BAG REMOVAL WORK
7 = WORK AREA CLEARANCE
8 = MAINTENANCE ACTIVITY
9 = ACBM REPAIR ACTIVITY
10 = ACBM ENCAPSULATION OR ENCLOSURE
11 = CLEANING OR DECONTAMINATION
12 = NOT APPLICABLE

COPYRIGHT MARCH, 1990, HYGIENETICS, INC./DATE LAST REVISED:

CLIENT BILLING INSTRUCTIONS: _____ SAMPLES @ $_____ = $

PA-3678
9-90

THE PORT AUTHORITY OF NY & NJ
Asbestos Abatement Permit Application

APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF:

A. Location J.F.K. INTERNATIONAL AIRPORT

Facility AMERICAN AIRLINES Building No. 57

Address J.F.K. INTERNATIONAL AIRPORT

Building Area: Boiler Room _____

Mech. Equip. Room _____

Other (specify) W. PUBLIC BATHROOM

B. Reason for Abatement

Renovation X Demolition _____

Operations and Maintenance _____

Other (specify) _____

C. Scope of Work, Type of Material and Associated Costs

1. Abatement and/or Replacement

Type of Material	Quantity to be abated	Quantity to be replaced	Cleanup/ Repair
Boiler Insulation	_____ Sq.Ft.	_____ Sq.Ft.	
Pipe Insulation	_____ L.Ft.	_____ L.Ft.	
Pipe Elbows/Fittings	100 Sq.Ft.	-- Sq.Ft.	
Duct Insulation	_____ Sq.Ft.	_____ Sq.Ft.	
Spray-on fireproofing	1540 Sq.Ft.	1540 Sq.Ft.	
Transite Material	_____ Sq.Ft.	_____ Sq.Ft.	
Cable Insulation	_____ Sq.Ft.	_____ L.Ft.	
Other	_____	_____	_____ Cu.Ft
Estimated Cost*	$ 28,000	$ 2,000	$ _____

*Include all related costs (Ex: materials, labor, disposal, etc)

2. Does Scope of work described in this Tenant Alteration Application include work other than asbestos abatement?

X YES _____ NO

3. Size of Containment 1200 Sq.Ft.

4. Abatement Method: (Check all appropriate methods)

1. Glove Bag Procedure	_____ YES	_____ NO
2. Full Size Containment	_____ YES	_____ NO
3. Partial Containment	_____ YES	_____ NO
4. Structural Containment (Enclosure)	X YES	_____ NO
5. Dust Tight Chutes	_____ YES	_____ NO
6. Wetting Down	X YES	_____ NO
7. Use of Surfactant	X YES	_____ NO

E. Asbestos Abatement Contractor:

Name NATIONAL ABATEMENT CORP. Telephone No. 212-219-0880

Address 100 VARICK STREET NEW YORK, NEW YORK

Contractor Project Supervisor MR. MARINO PRODAN

Principal

F. Asbestos Waste Disposal

Name of Hauler ASBESTOS CARTING CORP. NYDEC2A-189 Lic. Number

Address of Hauler 1199 RANDALL AVENUE

Contact Person WALLACE GROSCH Telephone No. 212-617-0771

Name of Disposal Site VALLEY LANDFILL

Location of Disposal Site IRWIN, PA

G. Monitoring Consultant:

Name H+GCL

Address 261 MADISON AVENUE

Contact Person MR. GARY PELLETIER Telephone No. 212-983-8510

H. Environmental Laboratory:

Name Laboratory Testing Services

Address 75 Urban Ave. Westbury, NY

Contact Person Ms. Jodi Lambert Telephone No. 516 334-7770

I. Estimated Abatement Schedule (See Attached Waiver Letter)

Start Date MARCH 2, 1992 Completion Date MARCH 20, 1992

J. Tenant Contract:

Name MR. GERRY DUMAS Telephone No. 718-244-3361

For Port Authority Use Only

A. Facility JFKIA

B. TAA No. Y-6465A Cost Recovery No. 215.197

C. Line Department Project Manager Paul Fernandez

Telephone Number 718 244 3542

D. The asbestos permit application has been reviewed and the specifications, drawings and part three of the Asbestos Permit Application of the Tenant Construction Plan and Specification Guidelines have been approved.

Environmental Engineering Signature [signature]

Title Eng Eng

Date 3/19/92

Asbestos Management And Compliance Division Signature [signature]

Title A.M.D.

Date 3/19/92

Notification of Demolition and Renovation

Operator Project #	Postmark	Date Received	Notification #

I. TYPE OF NOTIFICATION (O=Original R=Revised C=Cancelled): R

II. FACILITY INFORMATION (Identify owner, removal contractor, and other operator)

OWNER NAME: Port Authority of NY & NJ

Address: One World Trade Center

City: New York | State: N.Y. | Zip: 10048

Contact: | Tel:

REMOVAL CONTRACTOR: National Abatement Corp.

Address: 100 Varick Street

City: New York | State: NY | Zip: 10013

Contact: Marino Prodan | Tel: 212-219-0880

OTHER OPERATOR: American Airlines

Address: J.F.K. International Airport

City: Jamaica | State: N.Y. | Zip: 11470

Contact: Mr. Gerry Dumas | Tel: 718-244-3361

III. TYPE OF OPERATOR (D=Demo O=Ordered Demo R=Renovation E=Emer. Renovation) R

IV. IS ASBESTOS PRESENT? (Yes/No) Yes

V. FACILITY DESCRIPTION (Include building name, number and floor or room number)

Bldg Name: American Airlines Terminal - BLDG. #57

Address: J.F.K. International Airport

City: Jamaica | State: NY | County: Queens

Site Location: Departures Level - W. Bathrooms

Building Size: 290,000 Sq.Ft | # of Floors: 3 | Age in Years: 25

Present Use: Airline Terminal | Prior Use: SAME

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL: Bulk Samples were collected and analyzed using The E.P.A Approved Polarized Light Microscopy with Dispersion Staining Method.

VII. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: 1. Regulated ACM to be removed 2. Category I ACM Not Removed 3. Category II ACM Not Removed	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed Cat I	Cat II	Indicate Unit of Measurement Below UNIT	
Pipes	CHRYSOTILE			Lin Ft 100	Linear
Surface Area	CHRYSOTILE			Sq Ft 1,540	Square
No. RACM Off Facility Component					Count

VIII. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: MARCH 25,1992 Complete: APRIL 20,1992

IX. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: APRIL 22,1992 Complete: MAY 30, 1992

Continued on next page (1 of 2)

X. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK AND METHOD(S) TO BE USED:
ACM Fireproofing to be removed along with piping insulation using full containment.

XI. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION AND RENOVATION SITE:
Negative Air, worker & waste D.F. and wet method will be utilized.

XII. WASTE TRANSPORTER #1

Name: Asbestos Carting Corp.

Address: 11-99 Randall Street

City: Bronx | State: NY | Zip: 10474

Contact Person: Mr. Wallace Grosch | Telephone: 212-617-0771

WASTE TRANSPORTER #2

Name:

Address:

City: | State: | Zip:

Contact Person: | Telephone:

XIII. WASTE DISPOSAL SITE:

Name: Valley Landfill

Location: Pleasant Valley Road

City: Irwin | State: PA | Zip: 15642

Telephone:

XIV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

Name: | Title

Authority:

Date of order (MM/DD/YY) | Date ordered to begin (MM/DD/YY)

XV. FOR EMERGENCY RENOVATIONS

Date and hour of emergency (MM/DD/YY):

Description of the Sudden, Unexpected Event:

Explanation of how the event caused unsafe conditions or would cause equipment damage (or an unreasonable financial burden:)

XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER. All Asbestos Materials are to be removed within containment walls.

XVI. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THE THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS. (Required 1 year after promulgation)

FOR AMERICAN AIRLINES (Signature of Owner/Operator) 3-17-92 (date)

XVII. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.

FOR AMERICAN AIRLINES (Signature of Owner/Operator) 3-17-92 (date)

BILLING CODE 6560-50-C

AMERICAN AIRLINES
BUILDING 57 - J.F.K

PA-3677
9-90

THE PORT AUTHORITY OF NY & NJ

Asbestos Certification Form

Complete this form and submit it with form PA-531. If Part Two, which indicates that asbestos containing material will be disturbed during the term of the project, then complete and submit forms PA-3678 and PA-3679.

Part One—Certification of Non-Asbestos Project

The area of construction has been surveyed and no asbestos containing material (ACM) is present or will be disturbed during the course of this project. Attach a copy of the survey and test results and complete one of the following:

New Jersey Facility:

Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	Licence No.	Date

New York Facility:

Name of Certified NYC Investigator	Signature of Certified NYC Investigator	Certification No.	Date

Part Two—Certification of an Asbestos Project

The area of the construction has been surveyed, samples have been taken and the survey and test results of the suspect asbestos containing material (ACM) are attached.

Name of Certified Environmental Consultant	Signature of Certified Environmental Consultant	Environmental Consultant Certificate No.	Date
Edward Namath	Edward Namath	41802	2/10/92

For Port Authority Use Only

A. Facility JFKIA

B. TAA No. Y-6465A Cost Recovery No. 215,197

C. Line Department Project Manager Paul Fernandez

Telephone Number 718 244 3542

PA-3678
9-90

THE PORT AUTHORITY OF NY & NJ
Asbestos Abatement Permit Application

APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF:

A. Location J.F.K. INTERNATIONAL AIRPORT

Facility AMERICAN AIRLINES Building No. 57

Address J.F.K. INTERNATIONAL AIRPORT

Building Area: Boiler Room _____

Mech. Equip. Room _____

Other (specify) W. PUBLIC BATHROOM

B. Reason for Abatement

Renovation X Demolition _____

Operations and Maintenance _____

Other (specify) _____

C. Scope of Work, Type of Material and Associated Costs

1. Abatement and/or Replacement

Type of Material	Quantity to be abated	Quantity to be replaced	Cleanup/ Repair
Boiler Insulation	_____ Sq.Ft.	_____ Sq.Ft.	
Pipe Insulation	_____ L.Ft.	_____ L.Ft.	
Pipe Elbows/Fittings	100 Sq.Ft.	-- Sq.Ft.	
Duct Insulation	_____ Sq.Ft.	_____ Sq.Ft.	
Spray-on fireproofing	1540 Sq.Ft.	1540 Sq.Ft.	
Transite Material	_____ Sq.Ft.	_____ Sq.Ft.	
Cable Insulation	_____ Sq.Ft.	_____ L.Ft.	
Other	_____	_____	___ Cu.Ft
Estimated Cost*	$ 28,000	$ 2,000	$ _____

*Include all related costs (Ex: materials, labor, disposal, etc)

2. Does Scope of work described in this Tenant Alteration Application include work other than asbestos abatement?

X YES _____ NO

3. Size of Containment 1200 Sq.Ft.

4. Abatement Method: (Check all appropriate methods)

1. Glove Bag Procedure	_____ YES	_____ NO
2. Full Size Containment	_____ YES	_____ NO
3. Partial Containment	_____ YES	_____ NO
4. Structural Containment (Enclosure)	X YES	_____ NO
5. Dust Tight Chutes	_____ YES	_____ NO
6. Wetting Down	X YES	_____ NO
7. Use of Surfactant	X YES	_____ NO

E. Asbestos Abatement Contractor:

Name NATIONAL ABATEMENT CORP. Telephone No. 212-219-0880

Address 100 VARICK STREET NEW YORK, NEW YORK

Contractor Project Supervisor MR. MARINO PRODAN

Principal

F. Asbestos Waste Disposal

Name of Hauler ASBESTOS CARTING CORP. NYDEC2A-189
Lic. Number

Address of Hauler 1199 RANDALL AVENUE

Contact Person WALLACE GROSCH Telephone No. 212-617-0771

Name of Disposal Site VALLEY LANDFILL

Location of Disposal Site IRWIN, PA

G. Monitoring Consultant:

Name H+GCL

Address 261 MADISON AVENUE

Contact Person MR. GARY PELLETIER Telephone No. 212-983-8510

H. Environmental Laboratory:

Name Laboratory Testing Services

Address 75 Urban Ave. Westbury, NY

Contact Person Ms. Jodi Lambert Telephone No. 516 334-7770

I. Estimated Abatement Schedule (See Attached Waiver Letter)

Start Date MARCH 2, 1992 Completion Date MARCH 20, 1992

J. Tenant Contract:

Name MR. GERRY DUMAS Telephone No. 718-244-3361

For Port Authority Use Only

A. Facility JFKIA

B. TAA No. Y-6465A Cost Recovery No. 215.197

C. Line Department Project Manager Paul Fernandez

Telephone Number 718 244 3542

D. The asbestos permit application has been reviewed and the specifications, drawings and part three of the Asbestos Permit Application of the Tenant Construction Plan and Specification Guidelines have been approved.

Environmental Engineering Signature

Title

Date

Asbestos Management And Compliance Division

Signature [signature]

Title A.M.D.

Date 3/19/92

SSI ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/20/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAREL: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. SEIFF

SSI JOB#: 011604

CLIENT PROJECT#: 114359 AMER. AIRLIN.

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID.	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LOQ (F/CC) ***	RESULT (F/CC)
09118901	9/11/89	9/20/89	9/20/89	P.O. 2465 A/A - SKYCHEF/7:30 - 9:30	409.2	102.0/ 31	419.1	.012	.35-
09118903	9/11/89	9/20/89	9/20/89	A/A - SKYCHEF/9:30 - 12:30	459.0	92.0/100	117.2	.011	.100
09128902	9/12/89	9/20/89	9/20/89	A/A - SKYCHEF/9:00 - 11:00	203.6	3.5/100	4.5	.016	.006
09138901	9/13/89	9/20/89	9/20/89	A/A - SKYCHEF/7:00 - 10:00	466.3	72.0/100	91.7	.011	.015
09138902	9/13/89	9/20/89	9/20/89	A/A - SKYCHEF/11:00 - 12:00	223.7	46.5/100	59.3	.022	.100
09148901	9/14/89	9/20/89	9/20/89	A/A - SKYCHEF/9:00 - 11:00	390.0	69.0/100	87.9	.013	.007

SEP 29 RECD

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/14/89

ANALYST SIGNATURE: Merle Jantz

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012327

CLIENT PROJECT#: B & A AIR #156

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
11229-02		12/14/89	12/14/89	PERSONAL AA GATE 8	384.0	102.5/ 44	296.8	.013	.298
11279-01		12/14/89	12/14/89	PERSONAL AA GATE 8	385.2	106.0/ 28	482.3	.013	.482
11309-03		12/14/89	12/14/89	PERSONAL AA GATE 8	558.0	17.5/100	22.3	.009	.015

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012255

CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
11159-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	68.0/100	86.6	.009	.058
11169-03		12/07/89	12/08/89	PERSONAL AA GATE 8	487.5	100.5/ 84	152.4	.010	.120
11179-02		12/07/89	12/08/89	PERSONAL AA GATE 8	384.0	23.0/100	29.3	.013	.029
11209-02		12/07/89	12/08/89	PERSONAL AA GATE 8	378.0	16.5/100	21.0	.013	.021
11219-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	2.5/100	3.2	.009	.002

VOID CODES

VOID4 - UNABLE TO IDENTIFY SPECIFIC SAMPLE ID OR DUPLICATE/CROSS LABELING

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
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NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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SSI ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: MERLE JANTZ

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

AIHA AAR#: 1080

SSI JOB#: 012255

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CLIENT PROJECT#: BRITISH AIR/AMERICAN

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
100689-02		12/07/89	12/07/89	PERSONAL AA GATE 7	385.2	11.5/100	14.6	.013	.015
11039-02		12/07/89	12/07/89	PERSONAL AA GATE 7	585.0	100.0/ 78	163.3	.008	.107
11039-03		12/07/89	12/07/89	PERSONAL AA GATE 4	775.2				OLMIX
11069-01		12/07/89	12/07/89	PERSONAL AA GATE 8	574.2	9.0/100	11.5	.009	.008
11069-02		12/07/89	12/07/89	PERSONAL AA GATE 7	588.6	10.0/100	12.7	.008	.008
11079-01		12/07/89	12/07/89	PERSONAL AA GATE 7	386.4	12.0/100	15.3	.013	.015
11079-02		12/07/89	12/07/89	PERSONAL AA GATE 8	384.0	21.5/100	27.4	.013	.027
11089-03		12/07/89	12/07/89	PERSONAL AA GATE 7	574.2	6.0/100	7.6	.009	.005

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: Merle Jantz

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012255

CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
11089-04		12/07/89	12/07/89	PERSONAL AA GATE 8	585.0	70.0/100	89.2	.008	.059
11099-03		12/07/89	12/07/89	PERSONAL AA GATE 7	556.2	2.0/100	2.5	.009	.002
11099-04		12/07/89	12/07/89	PERSONAL AA GATE 4	462.0	4.0/100	5.1	.011	.004
11109-03		12/07/89	12/07/89	PERSONAL AA GATE	572.4	14.5/100	18.5	.009	.012
11139-03		12/07/89	12/07/89	PERSONAL AA GATE 8	376.8	6.0/100	7.6	.013	.008
11149-04		12/07/89	12/07/89	PERSONAL AA GATE 8	381.6	8.5/100	10.8	.013	.011

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE:

MELINDA TEFFETELLER

AIHA AAR#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012255

CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
10109-01		12/07/89	12/07/89	PERSONAL AA GATE 7	674.1	9.5/100	12.1	.007	.007
10109-02									
11029-01		12/07/89	12/07/89	PERSONAL AA GATE 4 PREP.	676.2	3.0/100	3.8	.007	.002
11029-02		12/07/89	12/07/89	PERSONAL AA GATE 7 (REMOV.)	8.613.0	111.5/ 20	710.2	.001	.032
11039-01		12/07/89	12/07/89	PERSONAL AA GATE 8	672.0	1.0/100	1.3	.007	.001

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012067

CLIENT PROJECT#: AMER. AIR. PO #611

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESUL (F/CC
1020901		11/13/89	11/13/89	PERSOANL AA GATE 10 REMOVAL AREA	787.2				OLMI
1023901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	9.0/100	11.5	.009	.00
1023902		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/ 51	259.7	.009	.17
1024901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	780.0	4.0/100	5.1	.006	.00
1025901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	864.0	90.5/100	115.3	.006	.05
1025902 *		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	882.9	12.0/100	15.3	.006	.00
1026901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.5/100	8.3	.006	.004
1027901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	770.4	27.0/100	34.4	.006	.017
1027902 *		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.6	41.0/100	52.2	.009	.03
1030901		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.9	.006	.02
1030902 *		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	869.4	62.5/100	79.6	.006	.03
1030903		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	682.5	24.0/100	30.6	.007	.017
1031901		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.006	.012
1031902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	864.0	43.5/100	55.4	.006	.02

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1060

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012067

CLIENT PROJECT#: AMER. AIR. PO #611

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1091903 *		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	784.8	18.0/100	22.9	.006	.011
1101901		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	775.2	25.5/100	32.5	.006	.016
1101902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	768.0	101.5/ 50	258.6	.006	.130

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-921.

SSI ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1030

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012087

CLIENT PROJECT#: AMER. AIR. PO #611

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT SAMPLE ID		DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRG (F/CC) ***	RESULT (F/CC)
1020901			11/13/89	11/13/89	PERSOANL AA GATE 10 REMOVAL AREA	787.2				OLMIX
1023901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	9.0/100	11.5	.009	.008
1023902			11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/ 51	258.7	.009	.174
1024901			11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	760.0	4.0/100	5.1	.006	.003
1025901			11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	364.0	90.5/100	115.3	.006	.031
1025902	*		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	982.9	12.0/100	15.3	.005	.007
1026901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.5/100	8.3	.006	.004
1027901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	770.4	27.0/100	34.4	.006	.017
1027902	*		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.6	41.0/100	52.2	.009	.035
1030901			11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.9	.006	.022
1030902	*		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	869.4	62.5/100	79.6	.006	.035
1030903			11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	692.5	24.0/100	30.6	.007	[illegible]
1031901			11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.006	.012
1031902			11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	864.0	43.5/100	55.4	.006	.025

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012067

CLIENT PROJECT#: AMER. AIR. PO #611

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LNQ (F/CC) ***	RESULT (F/CC)
1031903 *		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	784.8	18.0/100	22.9	.006	.011
1101901		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	775.2	25.5/100	32.5	.006	.016
1101902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	768.0	101.5/ 50	258.6	.006	.130

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A 14359/14559

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1012301		10/23/89	10/23/89	PERSONAL GATE 10 AA	477.0	11.0/100	14.0	.010	.011
1012902		10/23/89	10/23/89	PERSONAL GATE 10 AA	278.1	33.5/100	42.7	.018	.059
1012903 *		10/23/89	10/23/89	PERSONAL GATE 10 AA	361.2	4.0/100	5.1	.014	.005
1013901		10/23/89	10/23/89	PERSONAL GATE 10 AA	770.4	96.0/100	122.3	.006	.061
1013902		10/23/89	10/23/89	PERSONAL GATE 10 AA	663.6	3.0/100	3.8	.007	.002
1016901		10/23/89	10/23/89	PERSONAL GATE 10 AA	495.0	103.0/ 78	168.3	.010	.131
1016902		10/23/89	10/23/89	PERSONAL GATE 10 AA	481.5	101.0/ 31	415.0	.010	.332
1016903		10/23/89	10/23/89	PERSONAL GATE 10 AA	379.2	4.5/100	5.7	.013	.006
1017901		10/23/89	10/23/89	PERSONAL GATE 10 AA	667.8	101.0/ 46	279.7	.007	.161
1017902		10/23/89	10/23/89	PERSONAL GATE 10 AA	372.0	4.0/100	5.1	.013	.005
1017903		10/23/89	10/23/89	PERSONAL GATE 10 AA	903.0	11.5/100	14.6	.005	.006

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A 14359/14559

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1018901		10/23/89	10/23/89	PERSONAL GATE 10 AA	682.5	81.0/100	103.2	.007	.058
1018902		10/23/89	10/23/89	PERSONAL GATE 10 AA	576.0				OLMIX

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAR#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A P.O. #527

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
10068901		10/23/89	10/23/89	PERSONAL GATE 7 AA	367.2	8.5/100	10.8	.013	.011
10068903		10/23/89	10/23/89	PERSONAL GATE 7 AA	361.2	1.0/100	1.3	.014	.001
1010902		10/23/89	10/23/89	PERSONAL AA GATE 7	278.1	1.0/100	1.3	.018	.002
1010903		10/23/89	10/23/89	PERSONAL AA GATE 7	358.8	1.0/100	1.3	.014	.001

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT. SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAR#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011801

CLIENT PROJECT#: BRIT. & AMER. AIR

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
09228903		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	380.4	25.0/100	31.8	.013	.032
0926901		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	260.1	10.0/100	12.7	.019	.019
0926902		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	273.6	21.5/100	27.4	.018	.039
10048903		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	362.4	7.5/100	9.6	.014	.010
10058901		10/12/89	10/13/89	PERSONAL AA GATE 7 (ORET)	468.0	7.0/100	8.9	.010	.007
10058902		10/12/89	10/13/89	PERSONAL AA GATE (ORET)	364.8	5.0/100	6.4	.013	.007
10058903		10/12/89	10/13/89	PERSONAL AA GATE 7 (ORET)	356.4	5.0/100	6.4	.014	.007
10098901		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	418.5	6.0/100	7.6	.012	.007
10098902		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	226.5	6.5/100	8.3	.022	.014

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

SSI ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Gary Landini

GARY LANDINI

AIHA AAR#: 1833

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011801

CLIENT PROJECT#: BRIT. & AMER. AIR

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
09218901		10/12/89	10/12/89	PERSONAL AA GATE 10	364.8				VOID1
09218902		10/12/89	10/12/89	PERSONAL AA GATE 10	357.6	42.0/100	53.5	.014	.058
09218903		10/12/89	10/12/89	PERSONAL AA GATE 10	337.2	17.0/100	21.7	.015	.025

VOID CODES

VOID1 - FILTER TORN/DAMAGED/DISLODGED

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

SSI ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

SEP 29 RECD

REPORT DATE: 9/22/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

ATHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.36

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, N 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011638

CLIENT PROJECT#: BRITISH/AMERICAN AIR

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
P1-09158901		9/22/89	9/22/89	A/A GATE 10	246.8	21.0/100	26.8	.014	[illegible]
P1-09158902		9/22/89	9/22/89	A/A GATE 10	350.4	10.0/100	12.7	.01[illegible]	.014

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

VOID CODES

VOID1 - FILTER TORN/DAMAGED/DISLODGED

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/22/89

SEP 29 RECD

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.24

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN S. REIFF

SSI JOB#: 011639

CLIENT PROJECT#: BRITISH/AMERICAN ATR

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
0020901		9/22/89	9/22/89	A/A GATE 10	36[illegible].2				OLMIX

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/14/89

ANALYST SIGNATURE: [signature]
MERLE JANTZ
AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012327

CLIENT PROJECT#: B & A AIR #156

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

LIENT AMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1229-02		12/14/89	12/14/89	PERSONAL AA GATE 8	384.0	102.5/ 44	286.9	.013	.298
1279-01		12/14/89	12/14/89	PERSONAL AA GATE 8	385.2	106.0/ 28	482.3	.013	.482
1309-03		12/14/89	12/14/89	PERSONAL AA GATE 8	558.0	17.5/100	22.3	.009	.015

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
* FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: [signature]

MERLE JANTZ

ATTN AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN F. RETER

SSI JOB#: 012255

CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRD (F/CC) ***	RESULT (F/CC)
11159-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	68.0/100	86.6	.009	.058
11169-03		12/07/89	12/08/89	PERSONAL AA GATE 8	467.5	100.5/[illegible]	[illegible]	[illegible]	[illegible]
11179-02		12/07/89	12/08/89	PERSONAL AA GATE 8	394.0	23.0/100	29.3	.013	.029
11209-02		12/07/89	12/08/89	PERSONAL AA GATE 8	378.0	16.5/100	21.0	.013	.021
11219-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	2.5/100	3.2	.009	.002

VOID CODES

VOID4 - UNABLE TO IDENTIFY SPECIFIC SAMPLE ID OR DUPLICATE/CROSS LABELING

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/06/89

ANALYST SIGNATURE: [signature]
MERLE JANTZ

AIHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION 15.0.33

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012255

CLIENT PROJECT#: BRITISH AIR/AMERICAN

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LAQ (F/CC) ***	RESULT (F/CC)
089-04		12/07/89	12/07/89	PERSONAL AA GATE 9	595.3	70.0/100	89.2	.009	.009
099-03		12/07/89	12/07/89	PERSONAL AA GATE 7	556.2	2.0/100	2.5	.009	.002
099-04		12/07/89	12/07/89	PERSONAL AA GATE 6	452.0	4.0/100	5.1	.011	.004
109-03		12/07/89	12/07/89	PERSONAL AA GATE	572.4	14.5/100	18.5	.009	.012
139-03		12/07/89	12/07/89	PERSONAL AA GATE 8	376.8	6.0/100	7.6	.013	.009
[illegible]									
149-04		12/07/89	12/07/89	PERSONAL AA GATE 6	381.6	8.5/100	10.8	.013	.011

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
* FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: [signature]
MERLE JANTZ
AIHA AAR#: 1[illegible]

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012255

CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
00689-02		12/07/89	12/07/89	PERSONAL AA GATE 7	385.2	11.5/100	14.6	.013	.015
1039-02		12/07/89	12/07/89	PERSONAL AA GATE 7	505.0	100.0/ 78	163.3	.0[illegible]	.107
1039-03		12/07/89	12/07/89	PERSONAL AA GATE 4	775.2				OLMIX
1039-04		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
1069-01		12/07/89	12/07/89	PERSONAL AA GATE 8	574.2	9.0/100	11.5	.009	.008
1069-02		12/07/89	12/07/89	PERSONAL AA GATE 7	588.6	10.0/100	12.7	.008	.008
1079-01		12/07/89	12/07/89	PERSONAL AA GATE 7	388.4	12.0/100	15.3	.013	.015
1079-02		12/07/89	12/07/89	PERSONAL AA GATE 8	384.0	21.5/100	27.4	.013	.027
					[illegible]	[illegible]			
1089-03		12/07/89	12/07/89	PERSONAL AA GATE 7	574.2	6.0/100	7.6	.009	.005

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: [illegible]

MELINDA TEFFETELLER

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

AIHA AAHE: 1512

SSI JOB#: 012255

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CLIENT PROJECT#: BRITISH AIR/AMERICAN

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD *	FIBER DENSITY (F/MM2) **	LOD (F/CC) ***	RESULT (F/CC)
0109-01		12/07/89	12/07/89	PERSONAL AA GATE 7	674.1	9.5/100	12.1	.007	.007
[illegible]					[illegible]	[illegible]			
[illegible]									
1029-01		12/07/89	12/07/89	PERSONAL AA GATE 6 PREP.	576.2	2.0/100	3.8	.007	.002
1029-02		12/07/89	12/07/89	PERSONAL AA GATE 7 (REMOV.)	2,813.0	111.5/ 20	710.2	.001	.032
1029-03		12/07/89	12/07/89	PERSONAL AA GATE 8	572.8	1.0/100	1.3	.007	.001

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012067

CLIENT PROJECT#: AMER. AIR. PO #611

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

ANALYTICAL-TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRC (F/CC) ***	RESULT (F/CC)
1031903 *		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	754.8	15.0/100	22.6	.005	.01
1101901		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	775.2	25.5/100	32.5	.005	.01
1101902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	768.0	101.5/ 50	258.6	.005	.13

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: [illegible]

NEW JERSEY

CIRA AAPA: 1650

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

ESI JOB#: 012037

CLIENT PROJECT#: AMER. AIR. PO #611

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/mm²) **	LOQ (F/mm²) ***	RESULT (F/cc)
1020901		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				OLMIX
1023901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	573.0	9.0/100	11.5	.009	.016
1023902		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	184.0/ 51	259.7	.009	.174
1024901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	798.0	4.0/100	5.1	.006	.003
1025901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	864.0	90.5/100	115.9	.006	.051
1025902	*	11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	862.9	12.0/100	15.3	.006	.007
1026901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	732.0	6.5/100	8.3	.006	.004
1027901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	770.4	27.0/100	34.4	.006	.017
1027902	*	11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.6	41.0/100	52.2	.009	.035
1030901		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.8	.006	.022
1030902	*	11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	639.4	62.5/100	79.6	.006	.025
1030903		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	682.5	24.0/100	30.6	.007	.017
1031901		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.006	.012
1031902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	864.0	43.5/100	55.4	.006	.025

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
ESI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MELLE JANTZ

MELLE JANTZ

ATHA AARE 4080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SST JOB#: 012087

CLIENT PROJECT#: AMER. AIR. PO 5511

CLIENT SAMPLE ID		DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1020901			11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				CLMIX
1023901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	8.0/100	11.5	.009	.008
023902			11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/ 51	253.7	.009	.174
024901			11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	760.0	4.0/100	5.1	.006	.003
025901			11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	864.0	90.5/100	115.3	.006	.051
1025902	*		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	882.3	12.0/100	15.3	.005	.007
026901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.5/100	8.3	.006	.004
027901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	770.4	27.0/100	34.4	.006	.017
027902	*		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.5	41.0/100	52.2	.009	.025
.030901			11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.9	.006	.022
030902	*		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	869.4	62.5/100	79.5	.005	.025
031903			11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	592.5	24.0/100	30.6	.007	.012
031901			11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.005	.012
031902			11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	864.0	43.5/100	55.4	.006	.025

OVERLOAD CODES

CLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

ATHA AAB#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A 14359/14559

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LOD (F/CC) ***	RESULT (F/CC)
018901		10/23/89	10/23/89	PERSONAL GATE 10 AA	682.5	81.0/100	103.2	.007	.058
018902		10/23/89	10/23/89	PERSONAL GATE 10 AA	576.0				OLMIX
*				F					

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT. SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAR#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A P.O. #527

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LPG (F/CC) ***	RESULT (F/CC)
10068901		10/23/89	10/23/89	PERSONAL GATE 7 AA	367.2	6.5/100	10.8	.013	.011
10068903		10/23/89	10/23/89	PERSONAL GATE 7 AA	361.2	1.0/100	1.3	.014	.001
1010902		10/23/89	10/23/89	PERSONAL AA GATE 7	278.1	1.0/100	1.3	.018	.002
1010903		10/23/89	10/23/89	PERSONAL AA GATE 7	358.8	1.0/100	1.3	.014	.001

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hum

PAUL HUM

ATHA AAB: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A P.O. #527

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1012901		10/23/89	10/23/89	PERSONAL BLOCKHOUSES	588.8	1.0/100	1.3	.008	.001
1012902		10/23/89	10/23/89	PERSONAL BLOCKHOUSES	382.8	3.0/100	3.8	.013	.004

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAR#: 1512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION ~~15~~ 0.34

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011801

CLIENT PROJECT#: BRIT. & AMER. AIR

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LQ (F/CC) ***	RESULT (F/CC)
0922803		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	380.4	25.0/100	31.8	.013	.032
0926901		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	260.1	10.0/100	12.7	.019	.019
0926902		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	273.6	21.5/100	27.4	.018	.039
0048303		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	362.4	7.5/100	9.6	.014	.010
0058901		10/12/89	10/13/89	PERSONAL AA GATE 7 (ORET)	468.0	7.0/100	8.9	.010	.007
0058902		10/12/89	10/13/89	PERSONAL AA GATE (ORET)	364.8	5.0/100	6.4	.013	.007
0058903		10/12/89	10/13/89	PERSONAL AA GATE 7 (ORET)	356.4	5.0/100	6.4	.014	.007
0088301		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	418.5	6.0/100	7.6	.012	.007
0088902		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	226.5	6.5/100	8.3	.022	.014

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Gary Landini

GARY LANDINI

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

AIHA AAR#: 1833

SSI JOB#: 011801

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CLIENT PROJECT#: BRIT. & AMER. AIR

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
09218901		10/12/89	10/12/89	PERSONAL AA GATE 10	364.8				VOID1
09218902		10/12/89	10/12/89	PERSONAL AA GATE 10	357.6	42.0/100	53.5	.014	.058
09218903		10/12/89	10/12/89	PERSONAL AA GATE 10	337.2	17.0/100	21.7	.015	.025

VOID CODES

VOID1 - FILTER TORN/DAMAGED/DISLODGED

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

SEP 29 RE

REPORT DATE: 9/22/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAFE: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011638

CLIENT PROJECT#: BRITISH/AMERICAN AIR

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LOD (F/CC) **	RESULT (F/CC)
1-09158901		9/22/89	9/22/89	A/A GATE 10	345.8	21.0/100	16.8	.016	.030
1-09158902		9/22/89	9/22/89	A/A GATE 10	330.4	10.0/100	12.7	.014	.014

OVERLOAD CODES

OLMIX - OVER LOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

FOLD CODES

NDID1 - FILTER TORN/DAMAGED/DISLODGED

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
* FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

SSI ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/22/89

SEP 29 RECD

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011638

CLIENT PROJECT#: BRITISH/AMERICAN AIR

PROJECT SIGNATURE: MERLE JANTZ

MERLE JANTZ

ATHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	[illegible] (F/CC)
9208901		9/22/89	9/22/89	A/A GATE 10	351.2				OLMIX

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/20/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011604

CLIENT PROJECT#: #14359 AMER. AIRLIN.

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LWQ (F/CC) ***	RESULT (F/CC)
09118901	9/11/89	9/20/89	9/20/89	P.O. #455 A/A - SKYCHEF/7:30 - 9:30	409.2	102.0/131	419.1	.012	.384
09118903	9/11/89	9/20/89	9/20/89	A/A - SKYCHEF/9:30 - 12:30	450.0	92.0/100	117.2	.011	.100
09128902	9/12/89	9/20/89	9/20/89	A/A - SKYCHEF/9:00 - 11:00	309.5	3.5/100	4.5	.016	.006
09138901	9/13/89	9/20/89	9/20/89	A/A - SKYCHEF/7:00 - 10:00	465.2	72.0/100	91.7	.011	.076
09138902	9/13/89	9/20/89	9/20/89	A/A - SKYCHEF/11:00 - 12:30	227.7	46.5/100	59.2	.022	.100
09148901	9/14/89	9/20/89	9/20/89	A/A - SKYCHEF/9:00 - 11:30	390.0	69.0/100	87.9	.013	.087

SEP 29 REC'D

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

December 22, 1989

DKP Services, Inc.
40 Brunswick Avenue
Edison, NJ 08817

Attention: Barbara

Please note the following for your asbestos air sample shipment received 12/22/89:

Your sample submission form provided information on 19 samples although 18 were enclosed with the delivery.

There were two samples with sample ID 12209-04. We could differentiate the samples by description and start/stop times only. We have provided results on the first 12209-04 as it appears on the form (Pers, start 10:00 stop 12:30)

Samples 12139-04 ([duplicate] pers start 7:00 stop 10:00), 12209-02, 12209-04, and 12209-05 were listed on the submission form but not included in the package.

The delivery contained two samples labelled 12139-02. The labelling information on the cassettes could not allow for differentiation of the samples. The samples did not correspond (start and stop times, volumes and descriptions). These are provided on the report as a void because of cross labelling (void code 4).

Also sample 121809-03, 121809-04, 12209-05, 12209-06 had no volumes associated with the samples either on the form or on the cassette itself. We have provided fiber count results but could not provide concentrations.

We have provided results for the samples if possible. A copy of your submission form is enclosed. Would you please provide us with information in order to process the samples we have detailed above.

In order for SSI to provide accurate and timely results for air sample analyses it is very important that we receive sufficient sample information in order to process your shipment. Please make every effort to assist us in this manner.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

Sincerely,

George M. Beck
President

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/22/89

SEP 29 RECD

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 01638

CLIENT PROJECT#: BRITISH/AMERICAN AIR

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
8901		9/22/89	9/22/89	A/A GATE 10	361.2				OLMIX

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.

* FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.

** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Gary Landini

GARY LANDINI

AIHA AAR#: 1833

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011801

CLIENT PROJECT#: BRIT. & AMER. AIR

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
09218901		10/12/89	10/12/89	PERSONAL AA GATE 10	364.8				VOID1
09218902		10/12/89	10/12/89	PERSONAL AA GATE 10	357.6	42.0/100	53.5	.014	.056
09218903		10/12/89	10/12/89	PERSONAL AA GATE 10	337.2	17.0/100	21.7	.015	.025

VOID CODES

VOID1 - FILTER TORN/DAMAGED/DISLODGED

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
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NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
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Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAR#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011801

CLIENT PROJECT#: BRIT. & AMER. AIR

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
09228903		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	380.4	25.0/100	31.8	.013	.032
0926901		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	260.1	10.0/100	12.7	.019	.019
0926902		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	273.6	21.5/100	27.4	.019	.033
10048903		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	362.4	7.5/100	9.6	.014	.010
10058901		10/12/89	10/13/89	PERSONAL AA GATE 7 (ORET)	468.0	7.0/100	8.9	.010	.007
10058902		10/12/89	10/13/89	PERSONAL AA GATE (ORET)	364.8	5.0/100	6.4	.013	.007
10058903		10/12/89	10/13/89	PERSONAL AA GATE 7 (ORET)	356.4	5.0/100	6.4	.014	.007
10098901		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	418.5	6.0/100	7.6	.012	.007
10098902		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	226.5	6.5/100	8.3	.022	.014

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
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NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hum

PAUL HUM

AIHA AAR#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A P.O. #527

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
10068901		10/23/89	10/23/89	PERSONAL GATE 7 AA	367.2	8.5/100	10.6	.013	.013
10068903		10/23/89	10/23/89	PERSONAL GATE 7 AA	361.2	1.0/100	1.3	.014	.001
1010902		10/23/89	10/23/89	PERSONAL AA GATE 7	278.1	1.0/100	1.3	.018	.002
1010903		10/23/89	10/23/89	PERSONAL AA GATE 7	358.8	1.0/100	1.3	.014	.001

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
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Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

KATHA AAR#: 1080

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A 14359/14559

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1012301		10/23/89	10/23/89	PERSONAL GATE 10 AA	477.0	11.0/100	14.0	.010	.011
1012902		10/23/89	10/23/89	PERSONAL GATE 10 AA	278.1	33.5/100	42.7	.018	.055
1012903 *		10/23/89	10/23/89	PERSONAL GATE 10 AA	361.2	4.0/100	5.1	.014	.005
1013901 *		10/23/89	10/23/89	PERSONAL GATE 10 AA	770.4	96.0/100	122.3	.006	.061
1013902		10/23/89	10/23/89	PERSONAL GATE 10 AA	663.6	3.0/100	3.8	.007	.002
1016901		10/23/89	10/23/89	PERSONAL GATE 10 AA	495.0	103.0/ 78	168.3	.010	.131
1016902		10/23/89	10/23/89	PERSONAL GATE 10 AA	481.5	101.0/ 31	415.0	.010	.332
1016903		10/23/89	10/23/89	PERSONAL GATE 10 AA	379.2	4.5/100	5.7	.013	.005
1017901		10/23/89	10/23/89	PERSONAL SHAFTWAY	770.4	34.0/100	43.3	.006	.022
1017901		10/23/89	10/23/89	PERSONAL GATE 10 AA	667.8	101.0/ 46	279.7	.007	.161
1017902		10/23/89	10/23/89	PERSONAL GATE 10 AA	372.0	4.0/100	5.1	.013	.005
1017903		10/23/89	10/23/89	PERSONAL GATE 10 AA	903.0	11.5/100	14.6	.005	.006

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAS#: 1512

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A P.O. #527

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD *	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
0058901		10/23/89	10/23/89	PERSONAL GATE 7 AA	367.2	8.5/100	10.8	.013	.011
0068903		10/23/89	10/23/89	PERSONAL GATE 7 AA	361.2	1.0/100	1.3	.014	.001
010902		10/23/89	10/23/89	PERSONAL AA GATE 7	278.1	1.0/100	1.3	.018	.002
010903		10/23/89	10/23/89	PERSONAL AA GATE 7	358.8	1.0/100	1.3	.014	.001

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Coal Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAS#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A 14359/14559

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
012901		10/23/89	10/23/89	PERSONAL GATE 10 AA	477.0	11.0/100	14.0	.010	.011
012902		10/23/89	10/23/89	PERSONAL GATE 10 AA	278.1	33.5/100	42.7	.018	.055
012903 *		10/23/89	10/23/89	PERSONAL GATE 10 AA	361.2	4.0/100	5.1	.014	.005
013901		10/23/89	10/23/89	PERSONAL GATE 10 AA	770.4	96.0/100	122.3	.006	.061
013902		10/23/89	10/23/89	PERSONAL GATE 10 AA	663.8	3.0/100	3.8	.007	.002
016901		10/23/89	10/23/89	PERSONAL GATE 10 AA	495.0	103.0/ 78	168.3	.010	.131
016902		10/23/89	10/23/89	PERSONAL GATE 10 AA	461.5	101.0/ 31	415.0	.010	.332
016903		10/23/89	10/23/89	PERSONAL GATE 10 AA	379.2	4.5/100	5.7	.013	.005
017901		10/23/89	10/23/89	PERSONAL SHAFTWAY	770.4	34.0/100	43.3	.006	.022
017901		10/23/89	10/23/89	PERSONAL GATE 10 AA	667.8	101.0/ 46	279.7	.007	.161
017902		10/23/89	10/23/89	PERSONAL GATE 10 AA	372.0	4.0/100	5.1	.013	.005
017903		10/23/89	10/23/89	PERSONAL GATE 10 AA	903.0	11.5/100	14.6	.005	.006

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT. SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Merle Jantz

MERLE JANTZ

AIHA AAR#: 1980

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A 14359/14559

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1018901		10/23/89	10/23/89	PERSONAL GATE 10 AA	682.5	81.0/100	103.2	.047	.056
1018902		10/23/89	10/23/89	PERSONAL GATE 10 AA	576.0				OLMIX

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/13/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAMEI: 1090

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012087

CLIENT PROJECT#: AMER. AIR. PO #611

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT SAMPLE ID		DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD *	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
020901			11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				OLMIX
023901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	9.0/100	11.5	.008	.008
023902			11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/ 51	259.7	.008	.174
024901			11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	780.0	4.0/100	5.1	.006	.003
025901			11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	864.0	90.5/100	115.3	.006	.051
025902	*		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	882.9	12.0/100	15.3	.005	.007
026901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.5/100	8.3	.006	.004
027901			11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	770.4	27.0/100	34.4	.006	.017
027902	*		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.6	41.0/100	52.2	.009	.035
030901			11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.9	.006	.022
030902	*		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	859.4	62.5/100	79.6	.006	.035
030903			11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	692.5	24.0/100	30.6	.007	.017
031901			11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.006	.012
031902			11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	864.0	43.5/100	55.4	.006	.025

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT. SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIHA AAS#: 1020

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
60 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012067

CLIENT PROJECT#: AMER. AIR. PO #611

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
1091903 *		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	784.8	18.0/100	22.9	.006	.011
1101901		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	775.2	25.5/100	32.5	.006	.016
1101902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	768.0	101.5/ 50	258.6	.006	.130

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION. BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

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ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE:

NERLE JANTZ

AIHA AAS#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

IENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

TTENTION: ELLEN E. REIFF

SI JOB#: 012255

IENT PROJECT#: BRITISH AIR/AMERICAN

IENT MPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/AREA) **	LRQ (F/CC) ***	RESULT (F/CC)
089-04		12/07/89	12/07/89	PERSONAL AA GATE 8	595.0	70.0/100	89.2	.008	.059
099-03		12/07/89	12/07/89	PERSONAL AA GATE 7	556.2	2.0/100	2.5	.009	.002
099-04		12/07/89	12/07/89	PERSONAL AA GATE 4	462.0	4.0/100	5.1	.011	.004
109-03		12/07/89	12/07/89	PERSONAL AA GATE	572.4	14.5/100	18.5	.009	.012
139-03		12/07/89	12/07/89	PERSONAL AA GATE 8	376.8	6.0/100	7.6	.013	.008
149-04		12/07/89	12/07/89	PERSONAL AA GATE 8	581.6	8.5/100	10.8	.013	.011

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
* FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

OTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

OTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
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Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: MERLE JANTZ

AIHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

.IENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

TTENTION: ELLEN E. REIFF

SI JOB#: 012255

.IENT PROJECT#: BRITISH AIR/AMERICAN

IENT PLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
)589-02		12/07/89	12/07/89	PERSONAL AA GATE 7	385.2	11.5/100	14.8	.013	.015
)39-02		12/07/89	12/07/89	PERSONAL AA GATE 7	585.0	100.0/ 76	153.3	.008	.107
)39-03		12/07/89	12/07/89	PERSONAL AA GATE 4	775.2				OLMIX
)69-01		12/07/89	12/07/89	PERSONAL AA GATE 8	574.2	9.0/100	11.5	.009	.008
)69-02		12/07/89	12/07/89	PERSONAL AA GATE 7	588.6	10.0/100	12.7	.008	.008
)79-01		12/07/89	12/07/89	PERSONAL AA GATE 7	386.4	12.0/100	15.3	.013	.015
)79-02		12/07/89	12/07/89	PERSONAL AA GATE 5	364.0	21.5/100	27.4	.013	.027

ERLOAD CODES

LMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

OTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

OTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
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Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-0215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: MERLE JANTZ

IENT NAME/ADDRESS: DXP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

TENTION: ELLEN E. REIFF

AIHA AAR#: 1080

I JOB#: 012255

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

IENT PROJECT#: BRITISH AIR/AMERICAN

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

ENT PLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
59-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	69.0/100	86.6	.008	.056
69-03		12/07/89	12/08/89	PERSONAL AA GATE 8	487.5	100.5/ 64	152.4	.010	.120
79-02		12/07/89	12/09/89	PERSONAL AA GATE 8	384.0	23.0/100	29.3	.013	.029
09-02		12/07/89	12/08/89	PERSONAL AA GATE 8	378.0	16.5/100	21.0	.013	.021
19-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	2.5/100	3.2	.009	.002

ID CODES

DID4 - UNABLE TO IDENTIFY SPECIFIC SAMPLE ID OR DUPLICATE/CROSS LABEL

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

E: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

E: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
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Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800 223-0062 FAX (412) 828-9215

CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

ANALYST SIGNATURE: [signature]

MELINDA TEFFETELLER

AIHA AAR#: 1512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

ENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

TENTION: ELLEN E. REIFF

I JOB#: 012255

ENT PROJECT#: BRITISH AIR/AMERICAN

ENT PLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
09-01		12/07/89	12/07/89	PERSONAL AA GATE 7	676.1	8.5/100	12.1	.007	.007
39-01									
29-01		12/07/89	12/07/89	PERSONAL AA GATE 4 PREP.	576.2	3.0/100	3.8	.007	.002
29-02		12/07/89	12/07/89	PERSONAL AA GATE 7 (REMOV.)	8,613.0	111.5/ 20	710.2	.001	.032
39-01		12/07/89	12/07/89	PERSONAL AA GATE 8	672.0	1.0/100	1.3	.007	.001

SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
* LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

TE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

TE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/14/89

ANALYST SIGNATURE: [signature]

MERLE JANTZ

AIHA AAR#: 1080

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 012327

CLIENT PROJECT#: B & A AIR #156

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM2) **	LRQ (F/CC) ***	RESULT (F/CC)
11229-02		12/14/89	12/14/89	PERSONAL AA GATE 8	384.0	102.5/ 44	296.8	.013	.298
11279-01		12/14/89	12/14/89	PERSONAL AA GATE 8	385.2	106.0/ 28	482.3	.013	.482
11309-03		12/14/89	12/14/89	PERSONAL AA GATE 8	558.0	17.5/100	22.3	.009	.015

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
*** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

NOTE: REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

ENVIRONMENTAL CONSULTANTS

Bulk X-M

Sample from VAH to IPM on 1/16/90

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 1/17/90

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A, PAGES 293-299.

REPORT TO: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ 08817
ATTENTION: ELLEN E. REIFF

ANALYST SIGNATURE: Paul Hurm
PAUL HURM

SSI JOB NUMBER: DATE RECEIVED: DATE ANALYZED:	12570 1/17/90 1/17/90		
CLIENT SAMPLE ID: PROJECT ID:	1	--	
SAMPLE LOCATION:	1/16/90		
IS THE SAMPLE HOMOGENEOUS?	YES		
DOES IT CONTAIN LAYERS?	NO		
IS THE SAMPLE FIBROUS?	YES		
SAMPLE COLOR:	BROWN		
SAMPLE CONTAIN ASBESTOS FIBERS?	NO		
ASBESTOS TYPE AND PERCENT:			
TOTAL PERCENT ASBESTOS:	0 PERCENT		
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS 40 - 50 CELLULOSE 20 - 30		
NONFIBROUS CONSTITUENTS:	BINDER, VERMICULITE		
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.

Expressway Park, Gulf Lab Road, Pittsburgh, PA 15238
412-828-9210 1-800-223-6962 FAX (412) 828-9215

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
PA	215.098		JFK	CHRP		AMERICAN AIRLINES, UNDERGROUND PIPING	ADVATEX	R. GAYLE	/ /	COMPLETED (PAA575)	N	N	/ /		N
PA	215.118		JFK	57		AMERICAN AIRLINES, AIRCRAFT MAINTENANCE	KAN KLEAN INDUSTRIES, INC.		/ /		N	N	06/10/91	JFK-064-91	N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
T	215.128		JFK	S7		AMERICAN AIRLINES, CONCOURSE: A AND B, CORE CABLE INSULATION	D.K.P. ENVIRONMENTAL CORPORATION		/ /	ON HOLD (Y6060J).	N	N	/ /		N
T	215.135	Y-6158A	JFK	HANGAR #10		AMERICAN AIRLINES	NATIONAL ABATEMENT CORPORATION	ROCHELLE JOYNER	03/09/92	COMPLETED V.A.T. REMOVAL JOB	Y	Y	03/23/92	JFK-109-92	N
T	215.135	Y-6211A	JFK	HANGAR 10		AMERICAN AIRLINES	NATIONAL ABATEMENT CORPORATION	EGAN RICHARDS	01/24/91	COMPLETED PHASE I	Y	Y	05/30/91	JFK-057-91	N
T	215.178	Y-6422A	JFK	S7		AMERICAN AIRLINES, AIRCRAFT MAINTENANCE RENOVATIONS	ASBESTOS CONTROL SERVICES, INC.	E. RICHARDS	10/07/91	COMPLETED	Y	Y	10/29/91	JFK-080-91	N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE-DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
PA	215.197		JFK	57		AMERIC AIRLINES - WEST PUBLIC STROOMS	NATIONAL ABATEMENT CORPORATION	JEFF ENILLO	03/25/92	COMPLETED	Y	Y	05/05/92	JFK-119-92	N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
PA	215.521		JFK	57		AMERICAN AIRLINES - CEILING ACCESS OPENINGS	OGDEN ALLIED		/ /	CANCELED	Y	N	/ /		N
PA	215.566	215.550	JFK	57	CONCOURSE	MECHANICAL ROOM - HEAT EXCHANGER AND PIPING	ASBESTOS CONTROL SERVICES, INC.	B.K. / A.K.	12/09/91	COMPLETED	Y	Y	12/16/91	JFK-090-91	N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

AVIATION DEPARTMENT

ASBESTOS MANAGEMENT DIVISION
ABATEMENT ACTIVITIES MONITORING REPORT

PA/ TENANT	JOB #	CONTRACT/ TENANT #	FACILITY	BUILDING	FLOOR	LOCATION	CONTRACTOR	AMD AST	START DATE	REMARKS	USEPA NOTIFICATION	WASTE DOCUMENT RETURNED	DATE COMPLETED	AMD PLACARD #	BUDGETED
PA			JFK	HANGAR 10		AMERICAN AIRLINES, MER #3-AHV 7 (TENANT MAINTENANCE PROJECT)	ASBESTOS CONTROL SERVICES, INC.	E. RICHARDS	01/15/92	COMPLETED	Y	Y	02/03/92	JFK-093-92	N
T		N/A	JFK	57		AMERICAN AIRLINES SPOT REMOVAL	ASBESTOS CONTROL SERVICES, INC.	F. DAMBREVILLE	03/06/92	COMPLETED	Y	N	03/09/92	JFK-110-92	N

* NOTE: CLEANUPS DO NOT REQUIRE EPA NOTIFICATION OR PLACARD PERMITS.

SERVICES, INC.

July 28, 1989

United States Environmental Protection
Air/Hazard Material Division
26 Federal Plaza
New York, New York 10007

RE: Ten Day Asbestos Abatement
Project Notification

Gentlemen:

Enclosed please find our revised "Notification For Asbestos Removal" for the abatement work to be done at JFK International Airport @ American Airlines.

Kindly contact us if you have any questions.

Sincerely,

Joseph P. Maculaitis
Vice President
DKP Services, Inc.

enclosure

cc: NY State Department of Labor
Div. of Safety & Health
1 Main Street
Brooklyn, NY 11201

Mr. Gary Pelletier
Hygienetics, Inc.
150 Causeway Street
Boston, MA 02114

D. Procida - DKP
project file
Port Authority Manuals

JPM/eer

40 Brunswick Avenue • Edison, NJ 08817 • (201) 248-0221 • Telefax (201) 287-0577
"Asbestos Abatement Specialists"

P 707242

"NOTIFICATION OF DEMOLITION OR RENOVATION"

Name and address of demolition or renovation operator:
DKP Services, Inc. 40 Brunswick Ave. - Edison, NJ 08817
NY License No: AC-88-0031

II Contact Person: Joseph Maculaitis Telephone: 201-248-0221

III Description of building:
a) Name: American Airlines - Gate 7 & 10
b) Location: JFK Airport
c) County: Queens
d) Approx. amount of asbestos: 100 cubic yards

IV Scheduled dates of asbestos removal:
a) Start: 7-31-89
b) Completion: 10-15-89

V Method(s) to be employed:
Total containment, wetting down all asbestos debris

VI Procedures used to prevent visible emissions of asbestos:
a) Methods used at work site: wetting materials during removal and bagging
b) Methods used at waste disposal site: covering bagged material with dirt

VII Name and address of waste disposal site: CenterPointe Landfill, CenterPointe, IN 47840

VIII Name and title of governmental agency requiring asbestos removal (if applicable):

Signature: [illegible] Date: 7-28-89

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

DATE SAMPLED: 05/11/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase III, Work Area 10D - Chase

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A35678	05119338525 ADJACENT TO D/F	<12.7	<0.004
02	93A35679	05119338526 ADJACENT TO D/F	<12.7	<0.004
03	93A35680	05119338527 FIELD BLANK #1	< LOD	---
04	93A35681	05119338528 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
12	93A20395	03249338512 ADJACENT TO MICROTRAP DUCT IN NORTHEAST STAIRWAY	<12.7	<0.003
13	93A20396	03249338513 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
14	93A20397	03249338514 OUTSIDE BUILDING	<12.7	<0.003
15	93A20398	03249338515 FIELD BLANK #1	< LOD	-----
16	93A20399	03249338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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NVLAP

P 719241

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(P)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

SAMPLING SITE: JFK Airport, American Airlines, Bldg 56, Phase 2, A.C. Pits

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17259	03109318601-OUTSIDE, A.C. #20 PIT, REMOVAL CATI	<12.7	<0.004
02	93A17260	03109318602-FIELD BLANK #1	< LOD	-----
03	93A17261	03109318603-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(Q)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Three (3)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, American Airlines, Phase 2, A.C. Pit #16

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17262	03109318604-OUTSIDE, A.C. #16, DURING GLOVEBAG OP	<12.7	-----
02	93A17263	03109318605-FIELD BLANK #1	< LOD	-----
03	93A17264	03109318606-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(N)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK, American Airlines, Bldg 56, Phase 2, A.C. Pit 24

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18126	03109318607-INSIDE A/C PIT #24	<12.7	<0.004
02	93A18127	03109318608-INSIDE N/C PIT #24	<12.7	<0.004
03	93A18128	03109318609-INSIDE A/C PIT #24	<12.7	<0.004
04	93A18129	03109318610-OUTSIDE A/C PIT #24,	<12.7	<0.004
05	93A18130	03109318611-OUTSIDE A/C PIT #24,	<12.7	<0.004
06	93A18131	03109318612-OUTSIDE A/C PIT #24,	<12.7	<0.004
07	93A18132	03109318613-FIELD BLANK #1	< LOD	-----
08	93A18133	03109318614-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(V)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Area 10D

DATE SAMPLED: 04/05/93
DATE RECEIVED IN LAB: 04/07/93
DATE ANALYZED: 04/08/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A24088	04059334201 ADJACENT TO CLEAN ROOM OF PERSONAL D/F	29.9	0.004
02	93A24089	04059334202 ADJACENT TO CLEAN ROOM OF WASTE D/F	34.0	0.005
03	93A24090	04059334203 ADJACENT TO CRITICAL/ ISOLATION BARIER	<12.7	<0.002
04	93A24091	04059334204 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	<12.7	<0.003
05	93A24092	04059334205 ADJACENT TO MICROTRAP EXHAUST	28.7	0.004
06	93A24093	04059334206 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER WORK AREA 10D	29.3	0.004
07	93A24094	04059334207 FIELD BLANK #1	< LOD	-----
08	93A24095	04059334208 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(W)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Area 10D

DATE SAMPLED: 04/06/93
DATE RECEIVED IN LAB: 04/07/93
DATE ANALYZED: 04/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A23856	04069334209 INSIDE CONTAINMENT, WEST SIDE	<12.7	<0.003
02	93A23857	04069334210 INSIDE CONTAINMENT, NORTH WEST SIDE	<12.7	<0.003
03	93A23858	04069334211 INSIDE CONTAINMENT, CENTRAL	<12.7	<0.003
04	93A23859	04069334212 INSIDE CONTAINMENT, NORTH EAST SIDE	<12.7	<0.003
05	93A23860	04069334213 INSIDE CONTAINMENT, EAST SIDE	<12.7	<0.003
06	93A23861	04069334214 OUTSIDE, ADJACENT TO CLEAN ROOM OF PERSONAL D/F	12.7	0.003
07	93A23862	04069334215 OUTSIDE, ADJACENT TO CLEAN ROOM OF WASTE D/F	<12.7	<0.003
08	93A23863	04069334216 OUTSIDE, ADJACENT TO CRITICAL/ISOLATION BARRIER	<12.7	<0.003
09	93A23864	04069334217 OUTSIDE, ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
10	93A23865	04069334218 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER, WORK AREA 10D		
11	93A23866	04069334219 FIELD BLANK #1	< LOD	-----
12	93A23867	04069334210 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(X)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Area 10D

DATE SAMPLED: 04/06/93
DATE RECEIVED IN LAB: 04/07/93
DATE ANALYZED: 04/08/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A24080	04069334201 ADJACENT TO CLEAN ROOM OF PERSONNEL D/F/	<12.7	<0.003
02	93A24081	04069334202 ADJACENT TO CLEAN ROOM OF WASTE D/F	<12.7	<0.003
03	93A24082	04069334203 ADJACENT TO ISOLATION/ CRITICAL BARRIER, SOUTHEAST	<12.7	0.003
04	93A24083	04069334204 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	<12.7	<0.003
05	93A24084	04069334205 ADJACENT TO MICROTRAP EXHAUST	13.4	0.003
06	93A24085	04069334206 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	0.003
07	93A24086	04069334207 FIELD BLANK #1	< LOD	-----
08	93A24087	04069334208 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(Y)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #III

DATE SAMPLED: 04/08/93
DATE RECEIVED IN LAB: 04/13/93
DATE ANALYZED: 04/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
01	93A26026	04089334201 WASTE-OUT, ADJACENT TO STAIRCASE, ADMIRAL CLUB	<12.7	<0.003
02	93A26027	04089334202 WASTE-OUT, ADJACENT TO WORK AREA 10D	<12.7	<0.003
03	93A26028	04089334203 FIELD BLANK #1	< LOD	----
04	93A26029	04089334204 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

We certify this report is a true and authentic report of results obtained from our tests.

David C. Harvey
President

Mark F. Young Ph. D.
Vice President
Chief Operating Officer

Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.

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Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(T)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Areas 10D & 10C

DATE SAMPLED: 04/01/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22134	04019334201 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	19.1	0.004
02	93A22135	04019334202 ADJACENT TO CLEAN ROOM OF WASTE DECON	22.9	0.004
03	93A22136	04019334203 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
04	93A22137	04019334204 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.002
05	93A22138	04019334205 ADJACENT TO ISOLATION BARRIER, CRITICAL SOUTHEAST	<12.7	<0.002
06	93A22139	04019334206 ADJACENT TO TENT 10C, VISUAL BARRIER	<12.7	<0.002
07	93A22140	04019334207 ADJACENT TO CHANGE ROOM OF TENT 10C	<12.7	<0.003
08	93A22141	04019334208 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	<12.7	<0.003
09	93A22142	04019334209 ADJACENT TO CLEAN ROOM OF WASTE DECON	<12.7	<0.003
10	93A22143	04019334210 ADJACENT TO MICROTRAP EXHAUST		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
11	93A22144	04019334211 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.003
12	93A22145	04019334212 ADJACENT TO ISOLATION/ CRITICAL BARRIER, SOUTHEAST	<12.7	<0.003
13	93A22146	04019334213 ADJACENT TO TENT 10C, VISUAL BARRIER	<12.7	<0.003
14	93A22147	04019334214 ADJACENT TO CHANGE ROOM OF TENT 10C	<12.7	<0.003
15	93A22148	04019334215 FIELD BLANK #1	< LOD	-----
16	93A22149	04019334216 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(U)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

DATE SAMPLED: 04/02/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/05/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Ten (10)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Areas 10D & 10C

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A23168	04029334201 ADJACENT TO WASTE HOLDING AREA	<12.7	<0.003
02	93A23169	04029334202 ADJACENT TO WASTE HOLDING AREA	<12.7	<0.003
03	93A23170	04029334203 ADJACENT TO TENT 10C, SOUTHWEST SIDE, OUTSIDE	15.9	0.003
04	93A23171	04029334204 ADJACENT TO CHANGING ROOM FOR TENT 10C, OUTSIDE	<12.7	<0.003
05	93A23172	04029334205 ADJACENT TO TENT 10C, VISUAL BARRIER, OUTSIDE	26.8	0.005
06	93A23173	04029334206 INSIDE TENT, CLEARANCE	12.7	0.003
07	93A23174	04029334207 INSIDE TENT, CLEARANCE	<12.7	<0.003
08	93A23175	04029334208 INSIDE TENT, CLEARANCE	15.3	0.003
09	93A23176	04029334209 FIELD BLANK #1	< LOD	-----
10	93A23177	04029334210 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(N1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D & 10C

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22189	03319334201 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	<12.7	<0.002
02	93A22190	03319334202 ADJACENT TO CLEAN ROOM OF WASTE DECON	20.4	0.004
03	93A22191	03319334203 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	29.3	0.006
04	93A22192	03319334204 ADJACENT TO BARRIER, ADJACENT TO TENT 10C	<12.7	<0.002
05	93A22193	03319334205 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
06	93A22194	03319334206 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.002
07	93A22195	03319334207 ADJACENT TO TENT 10C, CHANGING ROOM	<12.7	<0.003
08	93A22196	03319334208 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	<12.7	<0.003
09	93A22197	03319334209 ADJACENT TO CLEAN ROOM OF WASTE DECON	<12.7	<0.003
10	93A22198	03319334210 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	(f/cc^3)
11	93A22199	03319334211 ADJACENT TO VISUAL BARRIER, ADJACENT TO TENT 10C	<12.7	<0.003
12	93A22200	03319334212 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
13	93A22201	03319334213 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.003
14	93A22202	03319334214 ADJACENT TO TENT 10C, CHANGING ROOM	<12.7	<0.003
15	93A22203	03319334215 FIELD BLANK #1	< LOD	-----
16	93A22204	03319334216 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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LAB. NO.: 93-06766(P-06)

CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young, Ph.D.
Vice President
Chief Operating Officer

David C. Harvey
President

vl

NVLAP ACCRED. # 1332 NYS ELAP APPROVAL # 10837 AIHA ACCRED. # 333

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(53)

Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.

Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(EE)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10A

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/09/93
DATE ANALYZED: 03/09/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A16410	03089347909-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.005
02	93A16411	03089347910-ADJACENT TO THE CLEAN ROOM	<12.7	<0.003
03	93A16412	03089347911-FIELD BLANK #1	< LOD	-----
04	93A16413	03089347912-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(GG)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10A

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/11/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17306	03109347905-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
02	93A17307	03109347906-ADJACENT TO THE CRITICALS	<12.7	<0.004
03	93A17308	03109347907-BELOW WORK AREA 10A	<12.7	<0.004
04	93A17309	03109347911-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.002
05	93A17310	03109347912-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
06	93A17311	03109347913-ADJACENT TO THE CRITICALS	<12.7	<0.002
07	93A17312	03109347914-FIELD BLANK #1	< LOD	-----
08	93A17313	03109347915-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719156

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(II)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10A

DATE SAMPLED: 03/11/93
DATE RECEIVED IN LAB: 03/11493
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18012	03119347905-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.003
02	93A18013	03119347906-OUTSIDE THE CLEAN ROOM	<12.7	<0.003
03	93A18014	03119347907-ADJACENT TO THE CRITICALS	<12.7	<0.005
04	93A18015	03119347912-BELOW WORK AREA 10A	<12.7	<0.004
05	93A18016	03119347913-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
06	93A18017	03119347914-ADJACENT TO THE CRITICALS	<12.7	<0.004
07	93A18018	03119347915-FIELD BLANK #1	< LOD	-----
08	93A18019	03119347916-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719157

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(LL)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Six (6)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10A

DATE SAMPLED: 03/12/93
DATE RECEIVED IN LAB: 03/12/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17982	03129338157-CLEAN ROOM	<12.7	<0.002
02	93A17983	03129338158-OUTSIDE CRITICAL BARRIERS	<12.7	<0.002
03	93A17984	03129338159-EXHAUST	<12.7	<0.003
04	93A17985	03129338160-ADJACENT AREA	----	-----
05	93A17986	03129338161-FIELD BLANK #1	< LOD	-----
06	93A17987	03129338162-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

We certify this report is a true and authentic report of results obtained from our tests.

David C. Harvey
President

Mark F. Young Ph.D.
Vice President
Chief Oprating Officer

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Laboratory Testing Services

PROJECT NO.: 6766(B1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

DATE SAMPLED: 03/15/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Six (6)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area, 10A

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A19009	03159338501 ADJACENT TO CLEAN ROOM	<12.7	<0.002
02	93A19010	03159338502 ADJACENT TO CRITICAL BARRIER, (ISOLATION BARRIER)	<12.7	<0.002
03	93A19011	03159338503 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
04	93A19012	03159338504 BELOW WORK AREA 10A	< LOD	-----
05	93A19013	03159338505 FIELD BLANK #1	< LOD	-----
06	93A19014	03159338506 FIELD BLANK #2		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(C1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Six (6)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10A

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18991	03169338501 ADJACENT TO CLEAN ROOM	<12.7	<0.003
02	93A18992	03169338502 ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
03	93A18993	03193338503 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
04	93A18994	03193338504 BELOW AREA 10A	<12.7	<0.003
05	93A18995	03193338505 FIELD BLANK #1	< LOD	-----
06	93A18996	03193338506 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(D1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10A

DATE SAMPLED: 03/17/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18979	03179338501 INSIDE WORK AREA 10A, (EAST)	<12.7	<0.003
02	93A18980	03179338502 INSIDE WORK AREA 10A, (EAST)	<12.7	<0.003
03	93A18981	03179338503 INSIDE WORK AREA 10A, (WEST)	<12.7	<0.003
04	93A18982	03179338504 INSIDE WORK AREA 10A, (WEST)	<12.7	<0.003
05	93A18983	03179338505 INSIDE WORK AREA 10A, (WEST)	<12.7	<0.003
06	93A18984	03179338506 OUTSIDE WORK AREA 10A, (NEAR 10B WORK AREA)	<12.7	<0.003
07	93A18985	03179338507 OUTSIDE WORK AREA 10A, (NEAR 10B WORK AREA)	<12.7	<0.003
08	93A18986	03179338508 OUTSIDE WORK AREA 10A, (NEAR 10B WORK AREA)	<12.7	<0.003
09	93A18987	03179338509 OUTSIDE WORK AREA 10A, (NEAR 10B WORK AREA)	<12.7	<0.003
10	93A18988	03179338510 OUTSIDE WORK AREA 10A, (NEAR 10B WORK AREA)	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	(f/cc^3)
11	93A18989	03179338511 FIELD BLANK #1	< LOD	-----
12	93A18990	03179338512 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(Z)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/03/93
DATE RECEIVED IN LAB: 03/05/93
DATE ANALYZED: 03/05/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15467	03039347901-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
02	93A15468	03039347902-ADJACENT TO THE CRITICALS	19.1	0.006
03	93A15469	03039347903-ADJACENT TO THE MICROTRAP EXHAUST	VOID	VOID
04	93A15470	03039347904-OUTSIDE THE CLEAN ROOM	<12.7	<0.004
05	93A15471	03039347905-ADJACENT TO THE CRITICALS	<12.7	<0.004
06	93A15472	03039347906-ADJACENT TO THE MICROTRAP EXHAUST	21.7	0.007
07	93A15473	03039347907-FIELD BLANK #1	< LOD	-----
08	93A15474	03039347908-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719163

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(AA)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/04/93
DATE RECEIVED IN LAB: 03/07/93
DATE ANALYZED: 03/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15982	03049347901-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
02	93A15983	03049347902-ADJACENT TO THE CRITICALS	19.1	0.006
03	93A15984	03049347903-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.004
04	93A15985	03049347904-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
05	93A15986	03049347905-ADJACENT TO THE CRITICALS	<12.7	<0.004
06	93A15987	03049347906-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.004
07	93A15988	03049347907-FIELD BLANK #1	< LOD	-----
08	93A15989	03049347908-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719164

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(BB)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/05/93
DATE RECEIVED IN LAB: 03/07/93
DATE ANALYZED: 03/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15966	03059347901-ADJACENT TO THE CLEAN ROOM	<12.7	<0.004
02	93A15967	03059347902-ADJACENT TO THE CRITICALS	<12.7	<0.004
03	93A15968	03059347903-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.004
04	93A15969	03059347904-ADJACENT TO THE CLEAN ROOM	<12.7	<0.004
05	93A15970	03059347905-ADJACENT TO THE CRITICAL	<12.7	<0.004
06	93A15971	03059347906-BELOW WORK AREA 10B	<12.7	<0.004
07	93A15972	03059347907-FIELD BLANK #1	< LOD	-----
08	93A15973	03059347908-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719165

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(DD)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/09/93
DATE ANALYZED: 03/09/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A16402	03089347901-ADJACENT TO THE CLEAN ROOM	22.9	0.005
02	93A16403	03089347902-ADJACENT TO THE CRITICALS	<12.7	<0.003
03	93A16404	03089347903-ADJACENT TO THE MICROTRAP EXHAUST	15.3	0.003
04	93A16405	03008947904-BELOW WORK AREA 10BOOM	<12.7	<0.003
05	93A16406	03089347905-ADJACENT TO THE CLEAN ROOM	<12.7	<0.003
06	93A16407	03089347906-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.003
07	93A16408	03089347907-FIELD BLANK #1	< LOD	-----
08	93A16409	03089347908-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719166

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(FF)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Nine (9)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/09/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17297	03099347901-OUTSIDE OF THE CLEAN ROOM	21.0	0.005
02	93A17298	03099347902-ADJACENT TO THE CRITICALS	<12.7	<0.003
03	93A17299	03099347903-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.003
04	93A17300	03009947904-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.003
05	93A17301	03099347905-ADJACENT TO THE CRITICALS	<12.7	<0.003
06	93A17302	03099347906-BELOW WORK AREA 10B	<12.7	<0.003
07	91A17303	03099347907-ADJACENT TO THE MICROTRAP EXHAUST 10A	<12.7	<0.003
08	93A17304	03099347908-FIELD BLANK #1	< LOD	-----
09	93A17305	03099347909-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719167

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(HH)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/11/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17314	03109347901-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
02	93A17315	03109347902-ADJACENT TO THE CRITICALS	<12.7	<0.004
03	93A17316	03109347903-ADJACENT TO THE MICROTRAP EXHIBIT	<12.7	<0.004
04	93A17317	03109347904-BELOW WORK AREA 10B	<12.7	<0.004
05	93A17318	03109347908-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
06	93A17319	03109347909-ADJACENT TO THE CRITICALS	<12.7	<0.004
07	93A17320	03109347915-FIELD BLANK #1	< LOD	-----
08	93A17321	03109347916-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(JJ)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

DATE SAMPLED: 03/11/93
DATE RECEIVED IN LAB: 03/14/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18004	03119347901-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
02	93A18005	03119347902-ADJACENT TO THE CRITICALS	<12.7	<0.004
03	93A18006	03119347903-ADJACENT TO THE MICROTRAP EXHAUST	<12.7	<0.004
04	93A18007	03119347904-BVELOW WORK AREA 10B EXHAUST	<12.7	<0.004
05	93A18008	03119347908-OUTSIDE OF THE CLEAN ROOM	<12.7	<0.004
06	93A18009	03119347909-ADJACENT TO THE CRITICALS	<12.7	<0.004
07	93A18010	03119347910-FIELD BLANK #1	< LOD	-----
08	93A18011	03119347911-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719169

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(KK)
LAB.NO.: 93-06766(P-04)
DATE: 04/01/93

DATE SAMPLED: 03/12/93
DATE RECEIVED IN LAB: 03/14/93
DATE ANALYZED: 03/17/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17898	03129338506-INSIDE 10B	<12.7	<0.003
02	93A17899	03129338507-INSIDE 10B	<12.7	<0.003
03	93A17900	03129338508-INSIDE 10B	<12.7	<0.003
04	93A17901	03129338509-INSIDE 10B	<12.7	<0.003
05	93A17902	03129338510-INSIDE 10B	<12.7	<0.003
06	93A17903	03129338513-OUTSIDE 10B, ADJACENT TO MEZZANINE STAIRS	<12.7	<0.003
07	93A17904	03129338514-OUTSIDE 10B, ADJACENT TO MEZZANINE STAIRS	<12.7	<0.003
08	93A17905	03129338515-OUTSIDE 10B, ADJACENT TO MEZZANINE STAIRS	<12.7	<0.003
09	93A17906	03129338521-OUTSIDE 10B, ADJACENT TO MEZZANINE STAIRS	<12.7	<0.003
10	93A17907	03129338522-OUTSIDE 10B, ADJACENT TO MEZZANINE STAIRS	<12.7	<0.003
11	93A17908	03129338523-FIELD BLANK #1	< LOD	-----
12	93A17909	03129338524-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719170

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(F1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10C

DATE SAMPLED: 03/24/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20707	03249334201 INSIDE WORK AREA LOCATION- SOUTHEAST WALL	<12.7	<0.003
02	93A20708	03249334202 INSIDE WORK AREA LOCATION- NORTH WALL	<12.7	<0.003
03	93A20709	03249334203 INSIDE WORK AREA LOCATION- NORTHWEST WALL		DEFECTIVE
04	93A20710	03249334204 OUTSIDE WORK AREA LOCATION- WEST AREA	<12.7	<0.003
05	93A20711	03249334205 OUTSIDE WORK AREA LOCATION- NORTH AREA	<12.7	<0.003
06	93A20712	03249334206 OUTSIDE WORK AREA LOCATION- NORTHEAST AREA	<12.7	<0.003
07	93A20713	03249334207 FIELD BLANK #1	< LOD	-----
08	93A20714	03249334208 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(CC)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10D

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/08/93
DATE ANALYZED: 03/09/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A16503	030893479-A-INSIDE OF WORK AREA, ADJACENT AMERICAN AIRLINES, CURBSIDE	<12.7	<0.003
02	93A16504	030893479-B-INSIDE OF WORK AREA, ADACENT AMERICAN AIRLINES, TV ROOM, TOP S	<12.7	<0.003
03	93A16505	030893479-C-INSIDE OF WORK AREA, ADJACENT AMERICAN AIRLINES, CURBSIDE	<12.7	<0.003
04	93A16506	030893479-D-INSIDE OF WORK AREA, ADJACENT TO THE WEST SIDE, ,EAST SIDE	<12.7	<0.003
05	93A16507	030893479-E-INSIDE OF WORK AREA, ADJACENT TO THE AUTOMATIC DOORS	<12.7	<0.003
06	93A16508	030893479-F-OUTSIDE OF WORK AREA, EAST SIDE OF A.A. COUNTER	<12.7	<0.003
07	93A16509	030893479-G-OUTSIDE OF WORK AREA, WEST SIDE OF A.A. COUNTER	<12.7	<0.003
08	93A16510	030893479-H-OUTSIDE OF WORK AREA, ADJACENT TO AMERICAN EXPRESS ACHIVA	<12.7	<0.003
09	93A16511	030897479-I-OUTSIDE OF WORK AREA, ADJACENT TO EXECUTIVE OFFICE	<12.7	<0.003
10	93A16512	030893479-J-OUTSIDE OF WORK AREA, BY THE AUTOMATIC DOORS	<12.7	<0.003
11	93A16513	030893479-K-FIELD BLANK #1	< LOD	-----
12	93A16514	030893479-L-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719172

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(E1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D

DATE SAMPLED: 03/24/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20699	03249334209 OUTSIDE ENTRANCE TO PERSONAL DECON	<12.7	<0.003
02	93A20700	03249334210 OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.003
03	93A20701	03249334211 ADJACENT TO ISOLATION BARRIER ON NORTHEAST SIDE	14.0	0.003
04	93A20702	03249334212 OUTSIDE BUILDING ADJACENT TO WORK AREA 10D	<12.7	<0.003
05	93A20703	03249334213 ADJACENT TO MICROTRAP EXHAUST, OUTSIDE BUILDING	<12.7	<0.003
06	93A20704	03249334214 ADJACENT TO WASTE DECON, (NORTHEAST), VISUAL BARRIER	17.2	0.004
07	93A20705	03249334215 FIELD BLANK #1	< LOD	-----
08	93A20706	03249334216 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(J1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Ten (10)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D

DATE SAMPLED: 03/25/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20657	03259334201 ADJACENT TO CLEAN ROOM OF PERSONAL D/F	15.3	0.003
02	93A20658	03259334202 ADJACENT TO CLEAN ROOM OF WASTE D/F	17.2	0.004
03	93A20659	03259334203 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
04	93A20660	03259334204 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.003
05	93A20661	03259334205 ADJACENT TO ISOLATION BARRIER/CRITICAL BARRIER, (EAST)	17.5	0.004
06	93A20662	03259334206 ADJACENT TO VISUAL BARRIER IN ADJACENT SPACE	VOID	VOID
07	93A20663	03259334207 ADJACENT TO VISUAL BARRIER IN ADJACENT SPACE	<12.7	<0.003
08	93A20664	03259334208 ADJACENT TO ISOLATION BARRIER/CRITICAL BARRIER, (EAST)	14.0	0.002
09	93A20665	03259334209 ADJACENT TO CLEAN ROOM OF PERSONAL D/F	<12.7	<0.002
10	93A20666	03259334210 ADJACENT TO CLEAN ROOM OF WASTE D/F	19.1	0.004

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(I1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D

DATE SAMPLED: 03/25/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20667	03259334211 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
02	93A20668	03259334212 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.002
03	93A20669	03259334213 FIELD BLANK #1	< LOD	-----
04	93A20670	03259334214 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(K1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Fourteen (14)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D

DATE SAMPLED: 03/26/93
DATE RECEIVED IN LAB: 03/27/93
DATE ANALYZED: 03/27/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20960	03269334201 ADJACENT TO PERSONAL D/F	19.1	0.003
02	93A20961	03269334202 ADJACENT TO WASTE D/F	25.5	0.005
03	93A20962	03269334203 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	14.0	0.003
04	93A20963	03269334204 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	21.7	0.004
05	93A20964	03269334205 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
06	93A20965	03269334206 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.002
07	93A20966	03269334207 ADJACENT TO PERSONAL D/F	<12.7	<0.003
08	93A20967	03269334208 ADJACENT TO WASTE D/F	<12.7	<0.003
09	93A20968	03269334209 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	<12.7	<0.003
10	93A20969	03269334210 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	<12.7	<0.003
11	93A20970	03269334211 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 OUT OF N.Y.S • FAX NO. 516-334-77
NEW YORK • BOSTON • RICHMOND

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
12	93A20971	03269334212 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
13	93A20972	03269334213 FIELD BLANK #1	< LOD	-----
14	93A20973	03269334214 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(L1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Fourteen (14)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D

DATE SAMPLED: 03/29/93
DATE RECEIVED IN LAB: 03/30/93
DATE ANALYZED: 03/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A21477	03299334201 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	56.1	0.011
02	93A21478	03299334202 ADJACENT TO CLEAN ROOM OF WASTE DECON	42.0	0.008
03	93A21479	03299334203 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	35.0	0.007
04	93A21480	03299334204 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	38.2	0.008
05	93A21481	03299334205 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
06	93A21482	03299334206 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	13.4	0.003
07	93A21483	03299334207 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	19.1	0.004
08	93A21484	03299334208 ADJACENT TO CLEAN ROOM OF WASTE DECON	46.5	0.009
09	93A21485	03299334209 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	21.0	0.004
10	93A21486	03299334210 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	26.8	0.005

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
11	93A21487	03299334211 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
12	93A21488	03299334212 OUTSIDE BUILDING, ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.002
13	93A21489	03299334213 FIELD BLANK #1	< LOD	-----
14	93A21490	03299334214 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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NVLAP

P 719179

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(M1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Fourteen (14)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D

DATE SAMPLED: 03/30/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22158	03309334201 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	15.3	0.003
02	93A22159	03309334202 ADJACENT TO CLEAN ROOM OF WASTE DECON	<12.7	<0.002
03	93A22160	03309334203 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	24.2	0.005
04	93A22161	03309334204 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	17.8	0.003
05	93A22162	03309334205 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.002
06	93A22163	03309334206 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.002
07	93A22164	03309334207 ADJACENT TO CLEAN ROOM OF PERSONAL DECON	22.9	0.005
08	93A22165	03309334208 ADJACENT TO CLEAN ROOM OF WASTE DECON	<12.7	<0.003
09	93A22166	03309334209 ADJACENT TO ISOLATION/ CRITICAL BARRIER, (SOUTHEAST)	20.4	0.004
10	93A22167	03309334210 ADJACENT TO VISUAL BARRIER, ADJACENT SPACE	15.3	0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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NYLAP

P 719180

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
11	93A22168	03309334211 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
12	93A22169	03309334212 OUTSIDE BUILDING ADJACENT TO ISOLATION BARRIER, WORK AREA 10D	<12.7	<0.003
13	93A22170	03309334213 FIELD BLANK #1	< LOD	-----
14	93A22171	03309334214 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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NYLAP

P 719181

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H+GCL
Environmental Sciences and Engineers

261 Madison Avenue • New York, NY 10016
(212) 983-8510 • FAX: (212) 983-8795

March 31, 1994

Mr. Michael Capasso, PE
Resident Engineers Office
JFK International Airport
Building 14
Jamaica, New York 11430

Re: **Asbestos Removal Project; American Airlines—Building 57, Gate 6**
Phase VI, Work Area 9B, TAA Y-6480F

Dear Mr. Capasso:

This letter is to inform you that the asbestos removal work outlined in the T.A.A. referenced above has been completed by Guaranteed Clean Air, Inc., the removal contractor. Attached please find the results of clearance samples, and a work area site plan for reference.

Samples were collected in accordance with the sampling techniques as mandated by New York State Industrial Code Rule 56. The samples were then analyzed using the National Institute of Occupational Safety and Health (NIOSH) 7400 method, "A" rules. All samples tested below 0.010 fibers per cubic centimeter (f/cc).

We are therefore certifying that the areas of abatement are suitable for re-occupancy.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

John E. Kurre

John E. Kurre
Project Manager

cc: Mr. Gary Pelletier—AA
Mr. Arvind Kumar—PA/AMD

Job file 7021.46

P 722268

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5 8 / 30

METHOD 7400
PCM FIBER COUNT

EMSL LABORATORY # 9527459-9527468
Branch LABORATORY #

JOB I.D. 7021.48/American Airlines, Bldg 58 "SE

CLIENT H&GCL NewYork

PREPARED BY: Ans

Blank	Sample ID	Location	Sample Date	#Fibers	#Fields	Volume (L)	Fibers/MM² E	Fibers/CC= C	OVER LOADED
	032294452-01 -01	Environmental Air Sample Taken Inside Work Area	3/22/94	4	100	1863.00	5.10	<0.005	
	032294452-02	Environmental Air Sample Taken Inside Work Area	3/22/94	3	100	1863.00	3.82	<0.005	
	032294452-03	Environmental Air Sample Taken Inside Work Area	03/22/94	4	100	1863.00	5.10	<0.005	
	032294452-04	Environmental Air Sample Taken Inside Work Area	3/22/94	12	100	1863.00	15.29	<0.005	
	032294452-05	Environmental Air Sample Taken Inside Work Area	3/22/94	7	100	1863.00	8.92	<0.005	
	032294452-06	Environmental Air Sample Taken Outside Work Area	3/22/94	5	100	1932.00	6.37	<0.005	
	032294452-07	Environmental Air Sample Taken Outside Work Area	3/22/94	4	100	1932.00	5.10	<0.005	
	032294452-08	Environmental Air Sample Taken Outside Work Area	3/22/94	3	100	1932.00	3.82	<0.005	
	032294452-09	Environmental Air Sample Taken Outside Work Area	3/22/94	4	100	1932.00	5.10	<0.005	
	032294452-10	Environmental Air Sample Taken Outside Work Area	3/22/94	4	100	1932.00	5.10	<0.005	

	Lab Number	Sample ID		#Fibers	#Fields		Fibers mm²	Analyst	
QC									
QC									

E= F.B / .00788 x # Fields C= E(.385) / V

Where F= # Fibers counted in Sample

QC Checked
Analyst 3/27/94
Scope #3

P 722269

SAME DAY

H&GCL ASBESTOS AIR SAMPLING RECORD

DATE: 3/22/94

BLDG. & PROJECT NAME: AMERICAN AIRLINES BLDG 56 "GB"

	SAMPLE I.D. NO.	TYPE*	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	0322944570-1	PCM-E	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
2	0322944570-1	PCM-F	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
3		PCM-A	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
4		PCM-B	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
5		PCM-C	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
6		PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
7		PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
8		PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
9		PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
10		PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
		PCM-I	12	FIELD BLANK
		PCM-I	12	FIELD BLANK

ACCOUNTABILITY RECORD PAGE ___ OF ___

REQUESTED COMPLETION DATE: 3/23
JOB NO: 7021.46 BATCH NO: 1617
CLIENT NAME: AMERICAN AIRLINES
SAMPLER'S NAME: [illegible]
SIGNATURE: [illegible]
DATE: 3/22/94 TIME COMPLETED: 1255
DELIVERED TO LAB BY: FED EX DAL
LAB NAME: EMSL
RECEIVED BY:
DATE: TIME: INITIALS:
ANALYST: SCOPE #:
DATE COMPLETED: TIME:
ANALYSIS METHOD:
APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA = ___ MM²; FIELD AREA = ___ MM²

	PUMP I.D. NO.	FLOW METER I.D. NO.	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / MM²	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1		01736	13.5	13.5	13.5	1040	1255	135	1863						
2			13.5	13.5	13.5	1040	1255	135	1863						
3			13.5	13.5	13.5	1040	1255	135	1863						
4			13.5	13.5	13.5	1040	1255	135	1863						
5			13.5	13.5	13.5	1040	1255	135	1863						
6			13.8	13.8	13.8	1020	1240	140	1932						
7			13.8	13.8	13.8	1020	1240	140	1932						
8			13.8	13.8	13.8	1020	1240	140	1932						
9			13.8	13.8	13.8	1020	1240	140	1932						
10			13.5	13.5	13.5	1025	1245	145	1932						
			FIELD BLANK												
			FIELD BLANK												

SPECIAL COMMENTS: Please Fax Results To H&GCL (212) 983-3570 + (713) 656-1102 [illegible]

*** SAMPLE TYPE CODES**

PCM = PHASE CONTRAST MICROSCOPY
TEM = TRANSMISSION ELECTRON MICROSCOPY
SEM = SCANNING ELECTRON MICROSCOPY
A = PERSONAL EXPOSURE SAMPLE
B = WORK AREA CLEARANCE
C = PREABATEMENT BACKGROUND
D = OUTSIDE WORK AREA
E = INSIDE WORK AREA
F = AIR QUALITY/ENVIRONMENTAL
G = HEPA EXHAUST DISCHARGE
H = DECONTAMINATING FACILITY
I = BLANK SAMPLE

**** WORK AREA ACTIVITY CODES**

1 = PREABATEMENT BACKGROUND
2 = PREPARATION IN WORK AREA
3 = ASBESTOS REMOVAL WORK
4 = CLEAN UP OF WORK AREA
5 = WASTE REMOVAL
6 = GLOVE BAG REMOVAL WORK
7 = WORK AREA CLEARANCE
8 = MAINTENANCE ACTIVITY
9 = ACOM REPAIR ACTIVITY
10 = ACOM ENCAPSULATION OR ENCLOSURE
11 = CLEARING OR DECONTAMINATION
12 = NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS: 12 SAMPLES @ $ 12 = $

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261 Madison Avenue • New York, NY 10016
(212) 983-8510 • FAX: (212) 983-8795

H+GCL
Environmental Scientists and Engineers

February 24, 1994

Mr. Michael Capasso, PE
Resident Engineers Office
JFK International Airport
Building 14
Jamaica, New York 11430

Re: **Asbestos Removal Project; American Airlines—Building 57, Gate 6 Phase VI, Work Area 9C, TAA Y-6480F**

Dear Mr. Capasso:

This letter is to inform you that the asbestos removal work outlined in the T.A.A. referenced above has been completed by Guaranteed Clean Air, Inc., the removal contractor. Attached please find the results of clearance samples, and a work area site plan for reference.

Samples were collected in accordance with the sampling techniques as mandated by New York State Industrial Code Rule 56. The samples were then analyzed using the National Institute of Occupational Safety and Health (NIOSH) 7400 method, "A" rules. All samples tested below 0.010 fibers per cubic centimeter (f/cc).

We are therefore certifying that the areas of abatement are suitable for re-occupancy.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

John E. Kurre

John E. Kurre
Project Manager

cc: Mr. Gary Pelletier—AA
Mr. Anthony Fontanetta—PA/AMD

Job file 7021.46

JK05/L0133

P 722276

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METHOD 7400
PCM FIBER COUNT

EMSL LABORATORY # 9514871-[illegible]
Branch LABORATORY #

JOB I.D. 7021.48/NY10064/JFKIA Am Airlines Bldg.58 (9C)

CLIENT H&G C.L. New York

PREPARED BY:

Sample ID	Location	Sample Date	#Fibers	#Fields	Volume (L)	Fibers/MM² E	Fibers/CC C	OVER LOADED
022294452-01	Environmental Air Samples Taken Outside Work Area		18	100	1988.00	22.93	<0.005	
022294452-02	Environmental Air Samples Taken Outside Work Area	2-22-94	9	100	1988.00	11.46	<0.005	
022294452-03	Environmental Air Samples Taken Outside Work Area	2-22-94	4	100	1988.00	5.10	<0.005	
022294452-04	Environmental Air Samples Taken Outside Work Area	2-22-94	2	100	1988.00	2.55	<0.005	
022294452-05	Environmental Air Samples Taken Outside Work Area	2-22-94	9	100	1988.00	11.46	<0.005	
022294452-06	Environmental Air Samples Taken Inside Work Area	2-22-94	58	100	1846.00	73.88	0.015	
022294452-07	Environmental Air Samples Taken Inside Work Area	2-22-94	13	100	1846.00	16.56	<0.005	
022294452-08	Environmental Air Samples Taken Inside Work Area	2-22-94	9	100	1846.00	11.46	<0.005	
022294452-09	Environmental Air Samples Taken Inside Work Area	2-22-94	31	100	1846.00	39.49	0.0082	
022294452-10	Environmental Air Samples Taken Inside Work Area	2-22-94	18	100	1846.00	22.93	<0.005	

Lab Number	Sample ID	#Fibers	#Fields	Fibers mm²	Analyst

F-B
M x # Fields
C= E(.385) / V
F= # Fibers counted in Sample
B= # Fibers counted in Blank

QC Check
Analyst [illegible] 2/23/94
Scope [illegible]
Computer

001049

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06/14/1992 08:56 7106551182 GOA INC PAGE 03

METHOD 7400
FIBER COUNT

EMSL LABORATORY # 9514881-[illegible]
Branch LABORATORY #

CLIENT H&G C.L. New York

JOB I.D. 7021.46/NY16084/JFKIA Ams Airlines Bldg 58 (9C)

PREPARED BY: _____

Sample ID	Location	Sample 2DS/94	#Fibers	#Fields	Volume (L)	Fibers/MM²-E	Fibers/CC-C	OVER LOADED
X 022294452-11	Field Blank							
11			0	100	0l	—	—	
X 022294452-12	Field Blank	3-03-94						
12			0	100	0l	—	—	

Lab Number	Sample ID	#Fibers	#Fields	Fibers mm²	Analyst

S _____ C= E(.385) / V

x # Fields

Fibers counted in Sample

Fibers counted in Blank

QC Checks

Analyst DP → 2/22/94

Scope #2

P 722280

SAME DAY

H&GCL ASBESTOS AIR SAMPLING RECORD

DATE: 2/22/94

BLDG. & PROJECT NAME: JFK IA AMERICAN AIRLINES BLDG 56 (T.C.)

	SAMPLE I.D. NO.	TYPE*	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	022294952-01	PCM-B	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE
2	-02	PCM-B	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
3	-03	PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
4	-04	PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
5	-05	PCM-D	7	ENVIRONMENTAL AIR SAMPLE TAKEN OUTSIDE WORK AREA
6	-06	PCM-E	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
7	-07	PCM-E	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
8	-08	PCM-E	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
9	-09	PCM-E	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
10	-10	PCM-E	7	ENVIRONMENTAL AIR SAMPLE TAKEN INSIDE WORK AREA
	-11	PCM-D	12	FIELD BLANK
	-12	PCM-E	12	FIELD BLANK

ACCOUNTABILITY RECORD

PAGE 1 OF 1

REQUESTED COMPLETION DATE: 2/23/94

JOB NO.: 7021.46 BATCH NO.: P770069

CLIENT NAME: AMERICAN AIRLINES

SAMPLER'S NAME: W. MCNEILL

SIGNATURE: [signature]

DATE: 2/22/94 TIME COMPLETED:

DELIVERED TO LAB BY: FED EX

LAB NAME: EMSL

RECEIVED BY:

DATE: TIME: INITIALS:

ANALYST: SCOPE #:

DATE COMPLETED: TIME:

ANALYSIS METHOD:

APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA = ____ MM 2 ; FIELD AREA = ____ MM 2

	PUMP I.D. NO	FLOW METER I.D. NO.	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1		02290	14.2	14.2	14.2	1205	1420	140	1988						
2			14.2	14.2	14.2	1202	1422	140	1988						
3			14.2	14.2	14.2	1202	1422	140	1988						
4			14.2	14.2	14.2	1203	1423	140	1991						
5			14.2	14.2	14.2	1204	1424	140	1995						
6			14.2	14.2	14.2	1236	1446	130	1846						
7			14.2	14.2	14.2	1237	1447	130	1846						
8			14.2	14.2	14.2	1238	1448	130	1846						
9			14.2	14.2	14.2	1239	1449	130	1846						
10			14.2	14.2	14.2	1240	1450	130	1846						
		FIELD	BLANK												
		FIELD	BLANK												

SPECIAL COMMENTS: PLEASE FAX RESULTS TO H&GCL (212) 983-8755 & (718)-656-1102 ATTN W. MCNEILL

* SAMPLE TYPE CODES

PCM = PHASE CONTRAST MICROSCOPY
TEM = TRANSMISSION ELECTRON MICROSCOPY
SEM = SCANNING ELECTRON MICROSCOPY
A = PERSONAL EXPOSURE SAMPLE
W = WORK AREA CLEARANCE
C = PREABATEMENT BACKGROUND
D = OUTSIDE WORK AREA
E = INSIDE WORK AREA
F = AIR QUALITY/ENVIRONMENTAL
G = HEPA EXHAUST DISCHARGE
H = DECONTAMINATION FACILITY
I = BLANK SAMPLE

** WORK AREA ACTIVITY CODES

1 = PREABATEMENT BACKGROUND
2 = PREPARATION OF WORK AREA
3 = ASBESTOS REMOVAL WORK
4 = CLEAN UP OF WORK AREA
5 = WASTE REMOVAL
6 = GLOVE BAG REMOVAL WORK
7 = WORK AREA CLEARANCE
8 = MAINTENANCE ACTIVITY
9 = ACMS REPAIR ACTIVITY
10 = ACMS ENCAPSULATION OR ENCLOSURE
11 = CLEANING OR DECONTAMINATION
12 = NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS: 12 SAMPLES @ $ 18 = $

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212 983-0795

0-73-21

8:00 Am.

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg. 5K Phase I W/A 5A

	SAMPLE I.D NO.	TYPE*	FLOOR NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	022693325 09	B	2	Brown cut ceiling adjacent to O/F		
2	022693325 10	B	2	" " " " " "		
3	022693325 11	B	2	" " " " " "		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE March 1, 1993
JOB NO 7021-46 BATCH NO N414223
CLIENT NAME: American Airlines
SAMPLER'S NAME: John Mich
SIGNATURE: [signature]
DATE: 2/26/93 TIME COMPLETED 1400
DELIVERED TO LAB BY

LAB NAME:
ADDRESS:
RECEIVED BY: J. LACey
DATE: 2/26/93 TIME: 8am INITIALS: JL
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES:

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS
B – BULK MATERIAL D – DEBRIS SAMPLE SD/T – SURFACE DUST - TAPE SAMPLE SD/V – SURFACE DUST - VACUUM SAMPLE SD/G – SURFACE DUST - GRAB SAMPLE	CH – CHRYSOTILE AM – AMOSITE CR – CROCIDOLITE AC – ACTINOLITE AN – ANTHOPHYLLITE TR – TREMOLITE	FG – FIBERGLASS MW – MINERAL WOOL CL – CELLULOSE SY – SYNTHETIC FIBER HA – HAIR NF – NON-FIBEROUS MATERIAL OT – OTHER

CLIENT BILLING INSTRUCTIONS		
NO. SAMPLES	RATE	SUBTOTAL
OUTSIDE LAB AUTHORIZATION		

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Laboratory Testing Services

DETERMINATION OF ASBESTOS IN RESILIENT FLOOR TILE*

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formations incorporated chrysotile, and over a period of time the proportion was progressively reduced. Resilient floor tiles are now manufactured which do not include any added asbestos. Therefore, floor tiles submitted for determination of their asbestos content may contain a range of concentrations, or they may contain no asbestos at all.

Resilient floor tile poses a difficult problem for the PLM analyst, because the matrix material and the pigments interfere with the ability to determine the optical properties of any asbestos fibers present, and in many floor tiles, the majority of the asbestos has been comminuted to dimensions below the limits of optical visibility. Because of these problems, false-negative results have often been reported, or the amount of asbestos has been significantly under-estimated.

Although in some tiles chrysotile fiber bundles can be seen at a fractured surface, this is often not the case, and more sophisticated sample preparation techniques must be used. However, from the perspective of a routine analytical laboratory, a decision must be made as to how much labor should be expended on an analysis by PLM, if after a significant effort, the results of the analysis may still turn out to be inconclusive. It has been our experience that the PLM technique <u>cannot</u> be used to demonstrate the <u>absence</u> of asbestos in resilient floor tiles, although it can sometimes be used to demonstrate its <u>presence</u>. Accordingly, if asbestos fibers are not detected by a simple stereo-microscopy examination of a fracture surface, or by examination after THC or acetone dissolution, the TEM procedure is recommended. If quantification of the asbestos is required, the TEM procedure is also recommended.*

Samples of floor tile that are submitted to LTS. Inc. are fractured and examined using a stereo-binocular microscope. If large fiber bundles are seen emerging from the fractured surface, they are then transferred to a microscope slide and analyzed for asbestos by routine PLM and dispersion staining. If the fibers analyzed for asbestos are positive, the analyst may report the results as greater than 1%, thereby establishing the floor tile to be asbestos containing material.

If fiber bundles are not detected using a stereo-binocular microscope, the sample is then placed in a glass vial and dissolved with Tetrahydrofuran or acetone as outlined in LTS Methodology explanation 2E. If asbestos is still not detected in the sample, the results are reported as "None Detected" with a recommendation to proceed to the TEM method.

*"Determination of Asbestos in Resilient Floor Tile" was written by Dr. Eric Chatfield of Chatfield Technical Consulting Limited, Ontario, Canada. Laboratory Testing Services, Inc. has adopted Dr. Chatfield's methodology. For further information on the TEM Methodology, please contact Laboratory Testing Services, Inc.

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ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 56 Phase III. W/A 11

	SAMPLE I.D. NO.	TYPE*	PLANE NO.	AREA OR ROOM DESCRIPTION	HAZ/NON CODE	TYPE CODE
1	050975385 34	B	1	Ceiling material between Columns 7-9		
2	1 35	B	1	Ceiling material between Ln Column 8-9		
3	1 36	B	1	Ceiling material between Ln Column 8-9		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE: _____
JOB NO.: 72146 BATCH NO. N41458
CLIENT NAME: Martin Stone
SAMPLER'S NAME: [illegible]
SIGNATURE: [illegible]
DATE: 5/2/97 TIME COMPLETED: 16:00
DELIVERED TO LAB BY: _____

LAB NAME: _____
ADDRESS: _____
RECEIVED BY: Joann C. Alley
DATE: 5/9/97 TIME: P.M. INITIALS: [illegible]
ANALYZED BY: _____ TIME: _____
LAB QC APPROVAL: _____

PROJECT MANAGER'S APPROVAL: _____

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: FAX to J. Mail @ 7149938715 & 7186561102 ASAP. Thx.

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES		ABBREVIATIONS FOR OTHER COMPONENTS		CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SDT = SURFACE DUST - TAPE SAMPLE SDV = SURFACE DUST - VACUUM SAMPLE SDG = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE	AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL	OT = OTHER	NO. SAMPLES / RATE / AMOUNT OUTSIDE LAB AUTHORIZATION

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V-234 223

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 58 – Proposed Employee Cafeteria

	SAMPLE I.D. NO.	TYPE*	FIBER ID	AREA OR ROOM DESCRIPTION	FRIABLE CODE	PVI SCORE
1	050491225 40	B	1	Overall Pipe insulation; existing Seating area		*
2	41			" " " " " "		*
3	42			Pipe fitting insulation; existing Ceiling		*
4	43			" " " " "		*
5	44			9x9 Tan floorties; " "		*
6	45			" " " " "		
7	46			Mastic for Tan floorties; " "		
8	47			" " " " "		
9	48			2'x2' white ceiling tile; existing Men's Bldg. Room		
10	49			" " " " existing seating area		
11						
12						
13				* pipes for Radiators (1")		

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE:
JOB NO: 702 1,46 BATCH NO NJ 14502
CLIENT NAME: American Airlines
SAMPLER'S NAME: S. Mirich
SIGNATURE:
DATE: 5/4/93 TIME COMPLETED: 1600
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: D. Lacey
DATE: 5/5/93 TIME: 7 am INITIALS:
ANALYZED BY TIME
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	COMMENTS
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: PLM Analysis Please – Fax results to 2129332795

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B – BULK MATERIAL D – DEBRIS SAMPLE SD/T – SURFACE DUST - TAPE SAMPLE SD/V – SURFACE DUST - VACUUM SAMPLE SD/G – SURFACE DUST - GRAB SAMPLE	CH – CHRYSOTILE AM – AMOSITE CR – CROCIDOLITE AC – ACTINOLITE AN – ANTHOPHYLLITE TR – TREMOLITE	FG – FIBERGLASS MW – MINERAL WOOL CL – CELLULOSE SY – SYNTHETIC FIBER HA – HAIR NF – NON-FIBEROUS MATERIAL OT – OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: AA Bldg 56 JFK - Amerigo Bldg Clean

	SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	12892-172-01	D	A	White Acoustical Ceiling Plaster		
2	02	D	A	" " "		
3	03	D	A	Black " "		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE 12/21/92
JOB NO 1021-46 BATCH NO. [illegible]
CLIENT NAME: American Airlines
SAMPLER'S NAME: [illegible]
SIGNATURE: [illegible]
DATE: 12/18/92 TIME COMPLETED 5:30 pm
DELIVERED TO LAB BY: FED. EX
LAB NAME: NOSI
ADDRESS:
RECEIVED BY: [illegible]
DATE: 12/21 TIME: INITIALS:
ANALYZED BY: [illegible] TIME: 12-24-92
LAB QC APPROVAL: [illegible]
PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

AS ARRIVALS LEAD

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	Color	COMMENTS Method
1	54815	22.2											77.8		TN	SPC
2	16	16											84		↓	↓
3	17	13.8											86.2		BK/TN	↓
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																

ADDITIONAL COMMENTS & NOTES: Paul Goldstein will provide batch # on Monday

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT ID SAMPLE
B = BULK MATERIAL	CH = CHRYSOTILE	FG = FIBERGLASS	
D = DEBRIS SAMPLE	AM = AMOSITE	MW = MINERAL WOOL	
SD/T = SURFACE DUST - TAPE SAMPLE	CR = CROCIDOLITE	CL = CELLULOSE	
SD/V = SURFACE DUST - VACUUM SAMPLE	AC = ACTINOLITE	SY = SYNTHETIC FIBER	
SD/G = SURFACE DUST - GRAB SAMPLE	AN = ANTHOPHYLLITE	HA = HAIR	
	TR = TREMOLITE	NF = NON-FIBEROUS MATERIAL	

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TEC-28-'92 15:22 ID:HYGIENETICS LAB TEL 10:617+589+0660

P 722286

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Laboratory Testing Services

RECEIVED MAR 15

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10022
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6782
LAB.NO.: 93-06782(P-01)
DATE: 03/08/93
NO. OF SAMPLES: One (1)

PROJECT NAME: American Airlines (7021.47)
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 02/10/93
SAMPLING SITE: American Airlines Terminal

DATE RECEIVED: 02/11/93
DATE ANALYZED: 02/11/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
01	93B0356	GREY,1	FIREPROOF 021093527-13	ND	--	FG 95%, O 5%

We certify this report is a true and authentic report of results obtained from our tests.

David C. Harvey
President

Mark F. Young, Ph.D.
Vice President
Chief Operating Officer

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:	OTHER COMPONENTS:
1 = Amosite	FG - Fibrous Glass, CELL - Cellulose,
2 = Chrysotile	SYN - Synthetics, CT - Cement, P - Plaster
3 = Crocidolite	B - Binder, O - Opaques, M - Magnesia, V - Vinyl
4 = Other (Specify)	VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.

Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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P 722289

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055-17

ASBESTOS BULK SAMPLE ANALYSIS

SAMPLING DATA			LABORATORY DATA	
Sample ID No.	Building & Sampling Location	Material Description	Lab ID No.	Est. Percentage & Type of Fiber(s)
021693527-13	American Airlines Term. RMF116 - Pass Serv. (Room to left of Door)	Sprayed on fireproofing		

SAMPLE ACCOUNTABILITY & TRANSFER RECORD

Date	Time	Printed Name	Signature	Affiliation/Co
2/11/93	310AM	Miriam Feuerstein	[signature]	H+GCL

* To Be Completed By Laboratory

P 722290

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SBESTOS BULK SAMPLE ANALYSIS RECORD

PAGE 1 OF 1

A	LABORATORY DATA	
Material Description	Lab ID No.	Est. Percentage & Type of Fiber(s)
n Sprayed on fireproofing		

Batch #:

Client Name American Airlines

Job No.:

Sampler: Miriam Feuerstein

Date Collected: 2/10/93

Lab Name: LTS

Analyst Name*: JOANNA LACEY

Signature*: [signature]

Date*: 2/11/93

Method*:

Date Reported*:

Date Billed*:

Comments:

SAMPLE ACCOUNTABILITY & TRANSFER RECORD

ted Name	Signature	Affiliation/Company	Method of Transfer	Purpose
Feuerstein	[signature]	H+GCL	HAND	Fm Sample location LAB for analysis

P 722291

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Laboratory Testing Services

Methodology Explanation:

Laboratory Testing Services, Inc. follows guidelines of EPA-600/M4-82-020 for the analysis of bulk samples for asbestos by polarized light microscopy. This method was prepared by the EPA to set criteria for the analysis of friable substances. (Easily crumbled or reduced to a powder by hand pressure). Friable samples typically include pipe wrap and pipe joint cement, and usually require no special preparation prior to analysis by PLM. Occasionally, samples of non-friable, and sometimes friable, materials are submitted for analysis for asbestos which require special preparations prior to analysis by PLM. Laboratory Testing Services, Inc. utilizes the following methods to analyze substances which require a deviation from EPA method 600/M4-82-020:

A) Low Temperature Ashing - The sample is placed in a furnace at low temperature (less than 350°c) to burn off large amounts of cellulose and other combustible materials. Asbestos is a mineral and will not burn off. This method facilitates the detection of asbestos in materials with small amounts of asbestos or those with a large amount of cellulose (certain pipe wraps and ceiling tile).

B) Milling - Non-friable substances are placed in a mortar and pestle or "Wiley" mill and are pulverized.

C) Acid Wash - The sample was washed in warm dilute Hydrochloric Acid or Acetic Acid to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

D) Hexametaphosphate Wash - The sample was washed in a 1% Hexametaphosphate solution to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

E) Acetone/Tetrahydrofuran dissolution - The sample was placed in a glass vial in one of the above solutions and allowed to dissolve. The solution is then filtered or placed directly on the glass slide and analyzed in appropriate refractive index fluid.

When a deviation from EPA Method 600-M4-82-020 was used to analyze a sample, this is noted in column 3 of Laboratory Testing Services, Inc. results reporting forms (under "color, method"). For example, if ashing was used as part of the analytical process, this is signified as "2-A" in the method column. If milling was used as part of the Analytical process, this is signified as "2-B" in the method column.

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Laboratory Testing Services

All percentage determinations, unless otherwise noted, were derived utilizing the visual estimate methodology. For most suspect materials, the visual estimate methodology is sufficient to determine a material to be greater than 1% asbestos and, therefore, an asbestos containing material. On November 20, 1990, an amendment to the NESHAP for asbestos (Federal Register, Volume 55, Number 224) was made. This amendment included a requirement to perform "point counting" to quantify asbestos in samples where the asbestos content is below ten percent. "Point Counting" is a time consuming process. Additional charges are levied on samples point counted due to the extended time required to perform the analysis.

On May 8, 1991, the United States Environmental Protection Agency issued a clarification memorandum to the NESHAP requirement for point counting samples visually estimated below 10% asbestos. The following points were clarified:

a) A sample in which no asbestos is detected by polarized light microscopy does not have to be point counted.

b) If the analyst detects asbestos in the sample and estimates the amount by visual estimation to be less than 10%, the OWNER OR OPERATOR OF THE BUILDING may:

   1) elect to assume the amount to be greater than 1% and treat the material as ACM or

   2) require verification of the amount by point counting.

c) If a result obtained by point counting is different from a result obtained by visual estimation, the point count result will be used.

Laboratory Testing Services, Inc. will not perform quantification of asbestos by point counting unless desired by the client. LTS., Inc. assumes that, if our client is not the owner or operator of the building from which the sample was obtained, the decision not to point count samples visually estimated as less than 10% asbestos was not reached by our client without the consent of the building owner or operator.

In addition, for samples which required ashing and/or milling (methodology explanations A and B as listed on the previous page) to detect the asbestos, point counting may not be possible because such actions alter the physical composition of the sample. Results obtained by point counting such treated samples will not be accurate.

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P 722293

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Laboratory Testing Services

DETERMINATION OF ASBESTOS IN
RESILIENT FLOOR TILE*

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formations incorporated chrysotile, and over a period of time the proportion was progressively reduced. Resilient floor tiles are now manufactured which do not include any added asbestos. Therefore, floor tiles submitted for determination of their asbestos content may contain a range of concentrations, or they may contain no asbestos at all.

Resilient floor tile poses a difficult problem for the PLM analyst, because the matrix material and the pigments interfere with the ability to determine the optical properties of any asbestos fibers present, and in many floor tiles, the majority of the asbestos has been comminuted to dimensions below the limits of optical visibility. Because of these problems, false-negative results have often been reported, or the amount of asbestos has been significantly under-estimated.

Although in some tiles chrysotile fiber bundles can be seen at a fractured surface, this is often not the case, and more sophisticated sample preparation techniques must be used. However, from the perspective of a routine analytical laboratory, a decision must be made as to how much labor should be expended on an analysis by PLM, if after a significant effort, the results of the analysis may still turn out to be inconclusive. It has been our experience that the PLM technique cannot be used to demonstrate the absence of asbestos in resilient floor tiles, although it can sometimes be used to demonstrate its presence. Accordingly, if asbestos fibers are not detected by a simple stereo-microscopy examination of a fracture surface, or by examination after THC or acetone dissolution, the TEM procedure is recommended. If quantification of the asbestos is required, the TEM procedure is also recommended.*

Samples of floor tile that are submitted to LTS. Inc. are fractured and examined using a stereo-binocular microscope. If large fiber bundles are seen emerging from the fractured surface, they are then transferred to a microscope slide and analyzed for asbestos by routine PLM and dispersion staining. If the fibers analyzed for asbestos are positive, the analyst may report the results as greater than 1%, thereby establishing the floor tile to be asbestos containing material.

If fiber bundles are not detected using a stereo-binocular microscope, the sample is then placed in a glass vial and dissolved with Tetrahydrofuran or acetone as outlined in LTS Methodology explanation 2E. If asbestos is still not detected in the sample, the results are reported as "None Detected" with a recommendation to proceed to the TEM method.

*"Determination of Asbestos in Resilient Floor Tile" was written by Dr. Eric Chatfield of Chatfield Technical Consulting Limited, Ontario, Canada. Laboratory Testing Services, Inc. has adopted Dr. Chatfield's methodology. For further information on the TEM Methodology, please contact Laboratory Testing Services, Inc.

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Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10022
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766(P-03)
DATE: 03/10/93
NO. OF SAMPLES: One (1)

PROJECT NAME: 7021.46
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 02/24/93
SAMPLING SITE: American Airlines

DATE RECEIVED: 02/25/93
DATE ANALYZED: 02/26/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
01	93B0527	WHITE,1	CEILING PLASTER	20	2	CELL 5%, P & O 75%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:
1 = Amosite
2 = Chrysotile
3 = Crocidolite
4 = Other (Specify)

OTHER COMPONENTS:
FG - Fibrous Glass, CELL - Cellulose,
SYN - Synthetics, CT - Cement, P - Plaster
B - Binder, O - Opaques, M - Magnesia, V - Vinyl
VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

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P 722296

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Laboratory Testing Services

LAB. NO.: 93-06766(P-03)

CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young, Ph.D.
Vice President
Chief Operating Officer

David C. Harvey
President

mg

NVLAP ACCRED. # 1332 NYS ELAP APPROVAL # 10837 AIHA ACCRED. # 333

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Report on sample by client applies only to sample Results on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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P 722298

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Laboratory Testing Services

H+GCL
261 Madison Avenue
New York, New York 10016

Attention: Mr. Bob Pourro

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 OUT OF N.Y.S • FAX NO. 516-334-7720
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P 722299

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Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-11)
DATE: 05/25/93
NO. OF SAMPLES: Ten (10)

PROJECT NAME: JFK Building 57
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 05/04/93
SAMPLING SITE: JFK Building, Proposed Employee Cafe, Building 57

DATE RECEIVED: 05/05/93
DATE ANALYZED: 05/10/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
050493385						
40	93B2541	BLUE/ WHITE,1	AIR CELL, PIPE	45	2	CELL 25%, B & O 30%
41	93B2542	BLUE/ WHITE,1	AIR CELL, PIPE	50	2	CELL 25%, B & O 25%
42	93B2543	BLUE/ WHITE,1	PIPE FITTING	30	2	FG 30%, CELL 10%, B & O 30%
43	93B2544	GREY,1	PIPE FITTING	15	2	FG 30%, CELL 5%, O 50%
44	93B2545	TAN,2E, 2A	9X9 FLOOR TILE	INCONCLUSIVE		CELL - TR, V & O 100%
45	93B2546	TAN,2E, 2A	9X9 FLOOR TILE	INCONCLUSIVE		CELL 1%, V & O 99%

Asbestos Content reported as % by volume.
ND = None Detected

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

P 722300

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Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
050493385						
46	93B2547	-- --	MASTIC	INSUFFICIENT QUANTITY FOR ANALYSIS		
47	93B2548		MASTIC	INSUFFICIENT QUANTITY FOR ANALYSIS		
48	93B2549	WHITE,1	2X2 CEILING TILE	ND	-	FG 65%, CELL 10%, O 25%
49	93B2550	WHITE,1	2X2 CEILING TILE	ND	-	FG 60%, CELL 5%, O.35%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:

1 = Amosite
2 = Chrysotile
3 = Crocidolite
4 = Other (Specify)

OTHER COMPONENTS:

FG - Fibrous Glass, CELL - Cellulose,
SYN - Synthetics, CT - Cement, P - Plaster
B - Binder, O - Opaques, M - Magnesia, V - Vinyl
VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally attained from EPA/600/M4-82-020.

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P 722301

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Laboratory Testing Services

LAB. NO.: 93-06766(P-11)

APPENDIX A

CHAIN OF CUSTODY RECORDS

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5/13/93

P-23A 28

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 5B – Proposed Employee Cafeteria

	SAMPLE I.D. NO.	TYPE*	FLOOR NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE COD
1	050493385 40	B	1	Aircell Pipe insulation; existing Seating area		*
2	41			" " " " "		*
3	42			Pipe fitting insulation; existing Pantry		*
4	43			" " " "		*
5	44			9"x9" Tan Floortile; " "		
6	45			" " " " "		
7	46			Mastic for Tan Floortile; " "		
8	47			" " " " "		
9	48			2'x2' white ceiling tile; Existing Men's Locker Room		
10	49			" " " " Existing Seating Area		
11						
12						
13				* Pipes for Radiators (1")		

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE:
JOB NO 7021.96 BATCH NO N914502
CLIENT NAME: American Airlines
SAMPLER'S NAME: S. Mirich
SIGNATURE:
DATE: 5/4/93 TIME COMPLETED: 1600
DELIVERED TO LAB BY

LAB NAME:
ADDRESS:
RECEIVED BY: W. LACey
DATE: 5/5/93 TIME: 10am INITIALS:
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	COMMENTS
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES PLM Analysis Please – Fax results to 2129238795

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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P 722305

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Laboratory Testing Services

Methodology Explanation:

Laboratory Testing Services, Inc. follows guidelines of EPA-600/M4-82-020 for the analysis of bulk samples for asbestos by polarized light microscopy. This method was prepared by the EPA to set criteria for the analysis of friable substances. (Easily crumbled or reduced to a powder by hand pressure). Friable samples typically include pipe wrap and pipe joint cement, and usually require no special preparation prior to analysis by PLM. Occasionally, samples of non-friable, and sometimes friable, materials are submitted for analysis for asbestos which require special preparations prior to analysis by PLM. Laboratory Testing Services, Inc. utilizes the following methods to analyze substances which require a deviation from EPA method 600/M4-82-020:

A) Low Temperature Ashing - The sample is placed in a furnace at low temperature (less than 350°c) to burn off large amounts of cellulose and other combustible materials. Asbestos is a mineral and will not burn off. This method facilitates the detection of asbestos in materials with small amounts of asbestos or those with a large amount of cellulose (certain pipe wraps and ceiling tile).

B) Milling - Non-friable substances are placed in a mortar and pestle or "Wiley" mill and are pulverized.

C) Acid Wash - The sample was washed in warm dilute Hydrochloric Acid or Acetic Acid to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

D) Hexametaphosphate Wash - The sample was washed in a 1% Hexametaphosphate solution to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

E) Acetone/Tetrahydrofuran dissolution - The sample was placed in a glass vial in one of the above solutions and allowed to dissolve. The solution is then filtered or placed directly on the glass slide and analyzed in appropriate refractive index fluid.

When a deviation from EPA Method 600-M4-82-020 was used to analyze a sample, this is noted in column 3 of Laboratory Testing Services, Inc. results reporting forms (under "color, method"). For example, if ashing was used as part of the analytical process, this is signified as "2-A" in the method column. If milling was used as part of the Analytical process, this is signified as "2-B" in the method column.

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All percentage determinations, unless otherwise noted, were derived utilizing the visual estimate methodology. For most suspect materials, the visual estimate methodology is sufficient to determine a material to be greater than 1% asbestos and, therefore, an asbestos containing material. On November 20, 1990, an amendment to the NESHAP for asbestos (Federal Register, Volume 55, Number 224) was made. This amendment included a requirement to perform "point counting" to quantify asbestos in samples where the asbestos content is below ten percent. "Point Counting" is a time consuming process. Additional charges are levied on samples point counted due to the extended time required to perform the analysis.

On May 8, 1991, the United States Environmental Protection Agency issued a clarification memorandum to the NESHAPS requirement for point counting samples visually estimated below 10% asbestos. The following points were clarified:

a) A sample in which no asbestos is detected by polarized light microscopy does not have to be point counted.

b) If the analyst detects asbestos in the sample and estimates the amount by visual estimation to be less than 10%, the <u>OWNER OR OPERATOR OF THE BUILDING</u> may:

   1) elect to assume the amount to be greater than 1% and treat the material as ACM or

   2) require verification of the amount by point counting.

c) If a result obtained by point counting is different from a result obtained by visual estimation, the point count result will be used.

Laboratory Testing Services, Inc. will not perform quantification of asbestos by point counting unless desired by the client. LTS., Inc. assumes that, if our client is not the owner or operator of the building from which the sample was obtained, the decision not to point count samples visually estimated as less than 10% asbestos was not reached by our client without the consent of the building owner or operator.

In addition, for samples which required ashing and/or milling (methodology explanations A and B as listed on the previous page) to detect the asbestos, point counting may not be possible because such actions alter the physical composition of the sample. Results obtained by point counting such treated samples will not be accurate.

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P 722308

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Laboratory Testing Services

DETERMINATION OF ASBESTOS IN RESILIENT FLOOR TILE*

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formations incorporated chrysotile, and over a period of time the proportion was progressively reduced. Resilient floor tiles are now manufactured which do not include any added asbestos. Therefore, floor tiles submitted for determination of their asbestos content may contain a range of concentrations, or they may contain no asbestos at all.

Resilient floor tile poses a difficult problem for the PLM analyst, because the matrix material and the pigments interfere with the ability to determine the optical properties of any asbestos fibers present, and in many floor tiles, the majority of the asbestos has been comminuted to dimensions below the limits of optical visibility. Because of these problems, false-negative results have often been reported, or the amount of asbestos has been significantly under-estimated.

Although in some tiles chrysotile fiber bundles can be seen at a fractured surface, this is often not the case, and more sophisticated sample preparation techniques must be used. However, from the perspective of a routine analytical laboratory, a decision must be made as to how much labor should be expended on an analysis by PLM, if after a significant effort, the results of the analysis may still turn out to be inconclusive. It has been our experience that the PLM technique <u>cannot</u> be used to demonstrate the <u>absence</u> of asbestos in resilient floor tiles, although it can sometimes be used to demonstrate its <u>presence</u>. Accordingly, if asbestos fibers are not detected by a simple stereo-microscopy examination of a fracture surface, or by examination after THC or acetone dissolution, the TEM procedure is recommended. If quantification of the asbestos is required, the TEM procedure is also recommended.*

Samples of floor tile that are submitted to LTS. Inc. are fractured and examined using a stereo-binocular microscope. If large fiber bundles are seen emerging from the fractured surface, they are then transferred to a microscope slide and analyzed for asbestos by routine PLM and dispersion staining. If the fibers analyzed for asbestos are positive, the analyst may report the results as greater than 1%, thereby establishing the floor tile to be asbestos containing material.

If fiber bundles are not detected using a stereo-binocular microscope, the sample is then placed in a glass vial and dissolved with Tetrahydrofuran or acetone as outlined in LTS Methodology explanation 2E. If asbestos is still not detected in the sample, the results are reported as "None Detected" with a recommendation to proceed to the TEM method.

*"Determination of Asbestos in Resilient Floor Tile" was written by Dr. Eric Chatfield of Chatfield Technical Consulting Limited, Ontario, Canada. Laboratory Testing Services, Inc. has adopted Dr. Chatfield's methodology. For further information on the TEM Methodology please contact Laboratory Testing Services, Inc.

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P 722309

0-66-27

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET 1 OF 1

BLDG. NAME & ADDRESS: JFK Bldg 56 Phase I w/A 5A-D

	SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	0223933[illegible]9	B	1	Carpet mastic on concrete w/A 5B	area	
2	0223933[illegible]10	B	1	Carpet mastic on concrete w/A-5D	area	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

REQUESTED COMPLETION DATE: 2/24/93 - Morning
JOB NO: 762/.46 BATCH NO:
CLIENT NAME: American Airlines
SAMPLER'S NAME: John [illegible]
SIGNATURE: [illegible]
DATE: 2/25 TIME COMPLETED 1430
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: J Lacy
DATE: 2/23/93 TIME: PM INITIALS: JL
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: Please analyze via TEM if not positive - Call P. Geoghegan 212-925-3510 w/results FAX results to 718-656-1102 and

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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P 722310

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 56 Ceiling east of Work area 2

	SAMPLE I.D. NO	TYPE*	ITEM NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	04229338501	B	1	Ceiling Plaster east of Work area 2; adjacent to column line		7
2	04229338502			Ceiling Plaster " " " adj. to column line		6
3	04229338503			Ceiling Plaster " " " adj. to column line		5
4	04229338504			Ceiling Plaster " " " adj. to column line		3+4
5	04229338505			Ceiling Plaster " " " Between column line		
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF

REQUESTED COMPLETION DATE 4/23/93 - ASAP

JOB NO 7021.46 BATCH NO N414533

CLIENT NAME American Airlines

SAMPLER'S NAME: Jake Micich

SIGNATURE: [signature]

DATE: 4/22/93 TIME COMPLETED 1600

DELIVERED TO LAB BY:

LAB NAME:

ADDRESS:

RECEIVED BY: TIME: INITIALS:

DATE: TIME:

ANALYZED BY: [signature]

LAB QC APPROVAL: [signature]

PROJECT MANAGER'S APPROVAL

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	COMMENTS
1	16627	.86											99.14		YL-WH
2	25	1.4											98.6		
3	[redacted] 29	.54											99.4		
4	[redacted] 30	3.1											96.9		
5	31	3											97		
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: Please Fax to J. Micich 2129338795 on 4/23/93 as soon as Possible!

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS
B = BULK MATERIAL	CH = CHRYSOTILE	FG = FIBERGLASS
D = DEBRIS SAMPLE	AM = AMOSITE	MW = MINERAL WOOL
SD/T = SURFACE DUST - TAPE SAMPLE	CR = CROCIDOLITE	CL = CELLULOSE
SD/V = SURFACE DUST - VACUUM SAMPLE	AC = ACTINOLITE	SY = SYNTHETIC FIBER
SD/G = SURFACE DUST - GRAB SAMPLE	AN = ANTHOPHYLLITE	HA = HAIR
	TR = TREMOLITE	NF = NON-FIBEROUS MATERIAL
		OT = OTHER

CLIENT BILLING INSTRUCTIONS

NO. SAMPLES	RATE	SUBTOTAL

OUTSIDE LAB AUTHORIZATION

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P 722311

P-15A-33

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 56 Phase I w/ASA

	SAMPLE I.D NO.	TYPE*	FLOOR NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	04129338 5 10	B	2	Inside Area 5B adj. to columnline	19	
2	11			" " " " " "	18	
3	12			" " " " " "	17	
4	13			" " " " " "	16	
5	14			" " " " " "	15	
6	15			" " " " " "	14	
7	16			" " " " " "	13	
8	17			" " " " " "	12	
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE 4/13/93

JOB NO 7021.46 BATCH NO N414496

CLIENT NAME: American Airlines

SAMPLER'S NAME: J. Micich

SIGNATURE: [signature]

DATE: 4/12/93 TIME COMPLETED 18:00

DELIVERED TO LAB BY:

LAB NAME:

ADDRESS:

RECEIVED BY: Verama Lacey

DATE: 4/13/93 TIME 12:00 INITIALS: [initials]

ANALYZED BY: TIME

LAB QC APPROVAL

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: Please FAX to S.M. 2129838795 and 7865611 02 by 4/13/93

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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04/13/1993 15:15 5129338795 PAGE 04

P 722312

0.64-21

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 56 Phase I w/h 5A-D

	SAMPLE I.D. NO.	TYPE*	FLOOR NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	0123333385-09	B	1	Carpet mastic on concrete W/h 5B	area	
2	0123333385-10	B	1	Carpet mastic on concrete W/h-5D	area	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD

SHEET 1 OF 1

REQUESTED COMPLETION DATE 2/24/93 - Monday
JOB NO 7621.46 BATCH NO
CLIENT NAME American Airlines
SAMPLER'S NAME: John Hyde
SIGNATURE: [illegible]
DATE 2/23/93 TIME COMPLETED 1430
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: J. Mary
DATE: 2/23/93 TIME 1:00 INITIALS JL
ANALYZED BY: TIME
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS						
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT
1														
2														
3														
4	[redacted]													
5														
6														
7														
8														
9														
10														
11														
12														
13														

COMMENTS

~~FAX results to 718-656-1102 and~~

ADDITIONAL COMMENTS & NOTES: Please analyze via TEM if not positive - Call P. Geoghegan 212-973-3510 w/results

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B – BULK MATERIAL D – DEBRIS SAMPLE SD/T – SURFACE DUST - TAPE SAMPLE SD/V – SURFACE DUST - VACUUM SAMPLE SD/G – SURFACE DUST - GRAB SAMPLE	CH – CHRYSOTILE AM – AMOSITE CR – CROCIDOLITE AC – ACTINOLITE AN – ANTHOPHYLLITE TR – TREMOLITE	FG – FIBERGLASS MW – MINERAL WOOL CL – CELLULOSE SY – SYNTHETIC FIBER HA – HAIR NF – NON-FIBEROUS MATERIAL OT – OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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H+GCL P.3.22

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK BDG 56 Phase I, W/A 5A

	SAMPLE I.D. NO	TYPE*	FLOOR NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	03049338509	B	1	Work area 5A - white ceiling material	(Patching)	
2	03049338510	B	1	Work area 5A - white ceiling material	(Patching)	
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE 3/10/93 (8:00 Am)
JOB NO. 7021.46 BATCH NO
CLIENT NAME American Airlines
SAMPLER'S NAME: John Micick
SIGNATURE: [signature]
DATE: 3/9/93 TIME COMPLETED 1430
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY:
DATE: TIME: INITIALS:
ANALYZED BY: [signature] TIME: 6:12
LAB QC APPROVAL: [signature]

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	COMMENTS
1	1198	12						MA		5			83		
2	1199	3						MA		5			92		
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: FAX to 212 983-8795 (4+) and 718-656-1102 (Field Office)

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO. SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

P 722314

001084

D-69-17

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: Building 56 Northwest Airline Baggage storage Room

	SAMPLE I.D. NO.	TYPE*	FLOOR NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	0224938509	B	1	Nwest Airline Baggage storage Rm. Ceiling plant		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE 2/26/93
JOB NO.: 7081.46 BATCH NO N414203
CLIENT NAME: American Airlines
SAMPLER'S NAME: John Micich
SIGNATURE: [signature]
DATE: 2/24/93 TIME COMPLETED 1600
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: [signature]
DATE: 2/25 TIME PM INITIALS
ANALYZED BY: TIME
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES:

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL	CH = CHRYSOTILE	FG = FIBERGLASS	NO SAMPLES / RATE / SUBTOTAL
D = DEBRIS SAMPLE	AM = AMOSITE	MW = MINERAL WOOL	
SD/T = SURFACE DUST - TAPE SAMPLE	CR = CROCIDOLITE	CL = CELLULOSE	
SD/V = SURFACE DUST - VACUUM SAMPLE	AC = ACTINOLITE	SY = SYNTHETIC FIBER	OUTSIDE LAB AUTHORIZATION
SD/G = SURFACE DUST - GRAB SAMPLE	AN = ANTHOPHYLLITE	HA = HAIR	
	TR = TREMOLITE	NF = NON-FIBEROUS MATERIAL	
		OT = OTHER	

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P 722315

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Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766
LAB.NO.: 93-06766(A)
DATE: 05/19/93
NO. OF SAMPLES: Three (3)

PROJECT NAME: 7021-46
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 04/26/93
SAMPLING SITE: JFK, Building 56, Penthouse

DATE RECEIVED: 04/27/93
DATE ANALYZED: 04/27/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
042693385						
01	93B2417	GREY,1	ELBOW FITTING	55	2	CELL 10%, B & O 35%
02	93B2418	GREY,1	ELBOW FITTING	50	2	CELL 5%, B & O 45%
03	93B2419	GREY,1	ELBOW FITTING	55	2	CELL 15%, B & O 30%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:
1 = Amosite
2 = Chrysotile
3 = Crocidolite
4 = Other (Specify)

OTHER COMPONENTS:
FG - Fibrous Glass, CELL - Cellulose,
SYN - Synthetics, CT - Cement, P - Plaster
B - Binder, O - Opaques, M - Magnesia, V - Vinyl
VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

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Laboratory Testing Services

LAB. NO.: 93-06766(A)

CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young, PH.D.
Vice President
Chief Operating Officer

David C. Harvey
President

tm

NVLAP ACCRED. # 1332 NYS ELAP APPROVAL # 10837 AIHA ACCRED. # 333

Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.

Report on sample by client applies only to sample Report on samples by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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P 722317

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ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET 1 OF 1

BLDG. NAME & ADDRESS: JFK Bldg. 56 Penthouse

	SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	04267332501	B	CH	Elbow fitting insulation on ~~[illegible]~~ Hot water supply		
2	04267332502	B	CH	Elbow fitting insulation on ~~[illegible]~~ Hot water return		7B
3	04267332503	B	CH	Elbow fitting insulation on ~~[illegible]~~ Cold water supply		7E
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

REQUESTED COMPLETION DATE:
JOB NO 7021.46 BATCH NO NY 14550
CLIENT NAME American Airlines
SAMPLER'S NAME: S. Mirich
SIGNATURE: [signature]
DATE: 4/26/93 TIME COMPLETED 1600
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: Joanna Lacey
DATE: 4/27/93 TIME: am INITIALS: JL
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: FAX to S. Mirich 7129833795 and ~~[illegible]~~ 7186561102

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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P 722318

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Laboratory Testing Services

Methodology Explanation:

Laboratory Testing Services, Inc. follows guidelines of EPA-600/M4-82-020 for the analysis of bulk samples for asbestos by polarized light microscopy. This method was prepared by the EPA to set criteria for the analysis of friable substances. (Easily crumbled or reduced to a powder by hand pressure). Friable samples typically include pipe wrap and pipe joint cement, and usually require no special preparation prior to analysis by PLM. Occasionally, samples of non-friable, and sometimes friable, materials are submitted for analysis for asbestos which require special preparations prior to analysis by PLM. Laboratory Testing Services, Inc. utilizes the following methods to analyze substances which require a deviation from EPA method 600/M4-82-020:

A) Low Temperature Ashing - The sample is placed in a furnace at low temperature (less than 350°c) to burn off large amounts of cellulose and other combustible materials. Asbestos is a mineral and will not burn off. This method facilitates the detection of asbestos in materials with small amounts of asbestos or those with a large amount of cellulose (certain pipe wraps and ceiling tile).

B) Milling - Non-friable substances are placed in a mortar and pestle or "Wiley" mill and are pulverized.

C) Acid Wash - The sample was washed in warm dilute Hydrochloric Acid or Acetic Acid to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

D) Hexametaphosphate Wash - The sample was washed in a 1% Hexametaphosphate solution to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

E) Acetone/Tetrahydrofuran dissolution - The sample was placed in a glass vial in one of the above solutions and allowed to dissolve. The solution is then filtered or placed directly on the glass slide and analyzed in appropriate refractive index fluid.

When a deviation from EPA Method 600-M4-82-020 was used to analyze a sample, this is noted in column 3 of Laboratory Testing Services, Inc. results reporting forms (under "color, method"). For example, if ashing was used as part of the analytical process, this is signified as "2-A" in the method column. If milling was used as part of the Analytical process, this is signified as "2-B" in the method column.

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P 722319

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Laboratory Testing Services

All percentage determinations, unless otherwise noted, were derived utilizing the visual estimate methodology. For most suspect materials, the visual estimate methodology is sufficient to determine a material to be greater than 1% asbestos and, therefore, an asbestos containing material. On November 20, 1990, an amendment to the NESHAP for asbestos (Federal Register, Volume 55, Number 224) was made. This amendment included a requirement to perform "point counting" to quantify asbestos in samples where the asbestos content is below ten percent. "Point Counting" is a time consuming process. Additional charges are levied on samples point counted due to the extended time required to perform the analysis.

On May 8, 1991, the United States Environmental Protection Agency issued a clarification memorandum to the NESHAPS requirement for point counting samples visually estimated below 10% asbestos. The following points were clarified:

a) A sample in which no asbestos is detected by polarized light microscopy does not have to be point counted.

b) If the analyst detects asbestos in the sample and estimates the amount by visual estimation to be less than 10%, the <u>OWNER OR OPERATOR OF THE BUILDING</u> may:

   1) elect to assume the amount to be greater than 1% and treat the material as ACM or

   2) require verification of the amount by point counting.

c) If a result obtained by point counting is different from a result obtained by visual estimation, the point count result will be used.

Laboratory Testing Services, Inc. will not perform quantification of asbestos by point counting unless desired by the client. LTS., Inc. assumes that, if our client is not the owner or operator of the building from which the sample was obtained, the decision not to point count samples visually estimated as less than 10% asbestos was not reached by our client without the consent of the building owner or operator.

In addition, for samples which required ashing and/or milling (methodology explanations A and B as listed on the previous page) to detect the asbestos, point counting may not be possible because such actions alter the physical composition of the sample. Results obtained by point counting such treated samples will not be accurate.

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Laboratory Testing Services

DETERMINATION OF ASBESTOS IN RESILIENT FLOOR TILE*

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formations incorporated chrysotile, and over a period of time the proportion was progressively reduced. Resilient floor tiles are now manufactured which do not include any added asbestos. Therefore, floor tiles submitted for determination of their asbestos content may contain a range of concentrations, or they may contain no asbestos at all.

Resilient floor tile poses a difficult problem for the PLM analyst, because the matrix material and the pigments interfere with the ability to determine the optical properties of any asbestos fibers present, and in many floor tiles, the majority of the asbestos has been comminuted to dimensions below the limits of optical visibility. Because of these problems, false-negative results have often been reported, or the amount of asbestos has been significantly under-estimated.

Although in some tiles chrysotile fiber bundles can be seen at a fractured surface, this is often not the case, and more sophisticated sample preparation techniques must be used. However, from the perspective of a routine analytical laboratory, a decision must be made as to how much labor should be expended on an analysis by PLM, if after a significant effort, the results of the analysis may still turn out to be inconclusive. It has been our experience that the PLM technique <u>cannot</u> be used to demonstrate the <u>absence</u> of asbestos in resilient floor tiles, although it can sometimes be used to demonstrate its <u>presence</u>. Accordingly, if asbestos fibers are not detected by a simple stereo-microscopy examination of a fracture surface, or by examination after THC or acetone dissolution, the TEM procedure is recommended. If quantification of the asbestos is required, the TEM procedure is also recommended.*

Samples of floor tile that are submitted to LTS. Inc. are fractured and examined using a stereo-binocular microscope. If large fiber bundles are seen emerging from the fractured surface, they are then transferred to a microscope slide and analyzed for asbestos by routine PLM and dispersion staining. If the fibers analyzed for asbestos are positive, the analyst may report the results as greater than 1%, thereby establishing the floor tile to be asbestos containing material.

If fiber bundles are not detected using a stereo-binocular microscope, the sample is then placed in a glass vial and dissolved with Tetrahydrofuran or acetone as outlined in LTS Methodology explanation 2E. If asbestos is still not detected in the sample, the results are reported as "None Detected" with a recommendation to proceed to the TEM method.

*"Determination of Asbestos in Resilient Floor Tile" was written by Dr. Eric Chatfield of Chatfield Technical Consulting Limited, Ontario, Canada. Laboratory Testing Services, Inc. has adopted Dr. Chatfield's methodology. For further information on the TEM Methodology, please contact Laboratory Testing Services, Inc.

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ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 56 Phase III W/A 11

	SAMPLE I.D. NO	TYPE*	NUMBER	AREA OR ROOM DESCRIPTION	MATERIAL CODE	TYPE CODE
1	050395585534	B	1	Ceiling material between Columns 8L-9		
2	35	B	1	Ceiling material between Ln Column 8L-9		
3	36	B	1	Ceiling Material between Ln Column 8L-9		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE:
JOB NO.: 7821/6 BATCH NO.: N71450
CLIENT NAME: Anderson Kerfoot
SAMPLE/ITS NAME:
SIGNATURE:
DATE: 5/5/97 TIME COMPLETED: 6:00
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: Dorrell Allen
DATE: 5/5/97 TIME: 5:00 INITIALS:
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: FAX to Simcid @ 7129838715 & 7186561152 ASAP. Thx

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B — BULK MATERIAL D — DEBRIS SAMPLE SDT — SURFACE DUST - TAPE SAMPLE SDV — SURFACE DUST - VACUUM SAMPLE SDG — SURFACE DUST - GRAB SAMPLE	CH — CHRYSOTILE AM — AMOSITE CR — CROCIDOLITE AC — ACTINOLITE AN — ANTHOPHYLLITE TR — TREMOLITE	FG — FIBERGLASS MW — MINERAL WOOL CL — CELLULOSE SY — SYNTHETIC FIBER HA — HAIR NF — NON-FIBROUS MATERIAL OT — OTHER	NO. SAMPLES / RATE / CUSTOMER OUTSIDE LAB AUTHORIZATION

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ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: J.F.K.I.A. Building 56 American Airlines

	SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FUNCTIONAL CODE	TYPE CODE
1	081293 #401	B	2ND	Work area 12 west ventilate Brown Corrugated		
2	" 02	B	2ND	" " " "		
3	" 03	B	2ND	" " " "		
4	" 04	B	2ND	Construction area where Escalator [illegible]		
5	" 05	B	2ND	" " " "		
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE 8/16/93 by 0800 hrs
JOB NO: 7021-46 BATCH NO: NY15101
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE: 8/12/93 TIME COMPLETED
DELIVERED TO LAB BY: Fed. EX.

LAB NAME: L.T.S.
ADDRESS:
RECEIVED BY: [illegible]
DATE: 9/13 TIME: 10:25 INITIALS: [illegible]
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS BY OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: PLEASE Fax Results to H+GCL (212) 983-8795 Attention Bill Birnbaum

***SAMPLE TYPE CODES**

B = BULK MATERIAL
D = DEBRIS SAMPLE
SDT = SURFACE DUST - TAPE SAMPLE
SDV = SURFACE DUST - VACUUM SAMPLE
SDG = SURFACE DUST - GRAB SAMPLE

ASBESTOS TYPE CODES

CH = CHRYSOTILE
AM = AMOSITE
CR = CROCIDOLITE
AC = ACTINOLITE
AN = ANTHOPHYLLITE
TR = TREMOLITE

ABBREVIATIONS FOR OTHER COMPONENTS

FG = FIBERGLASS
MW = MINERAL WOOL
CL = CELLULOSE
SY = SYNTHETIC FIBER
HA = HAIR
NF = NON-FIBEROUS MATERIAL
OT = OTHER

CLIENT BILLING INSTRUCTIONS

NO. SAMPLES	RATE	SUBTOTAL

OUTSIDE LAB AUTHORIZATION

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FROM - Y 8.19.1993 12:17 P. 3

P 722323

P 47A-17

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 50 Phase II W/A 2

	SAMPLE I.D. NO.	TYPE*	FIBER NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
4650 1	072693785 13	B	1	Ceiling lathe material		
4651 2	14	B	1	" " "		
4652 3	15	B	1	" " "		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE:
JOB NO. 7021.46 BATCH NO. N474986
CLIENT NAME: American Airlines
SAMPLER'S NAME: J. Miesch
SIGNATURE: [signature]
DATE: 7/26/93 TIME COMPLETED: 1200
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY:
DATE: TIME: INITIALS:
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: FAX to S.M. 2121838795

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO. SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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87/38/1983 BB:88 5863347618 LTS/WESTBURY, NY PAGE 83

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ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 57 Below area 10 E+F

	SAMPLE I.D. NO.	TYPE*	Homog. NO.	AREA OR ROOM DESCRIPTION	Function Code	Type Code
1	DG 0773 5 E 5 01	B	1	Transfer Dust insulation material below area		
2	DG 0773 5 E 5 02	B	1	" " " " "		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE: 6-9
JOB NO.: 7001-46 BATCH NO.: 114 4794
CLIENT NAME: American Airlines
SAMPLER'S NAME: [illegible]
SIGNATURE: [illegible]
DATE: 06/08/93 TIME COMPLETED: 1600
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: [illegible]
DATE: 6/9 TIME: INITIALS:
ANALYZED BY: [illegible] TIME: 6/10/93
LAB QC APPROVAL: [illegible]

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	method	color	COMMENTS
1	73005												100		SO	GY	
2	D60												100		SO	GY	
3																	
4																	
5																	Faxed 6/10/93
6																	
7																	
8																	refaxed 6/14/93
9																	
10																	
11																	
12																	
13																	

ADDITIONAL COMMENTS & NOTES: FAX to J.M. 2129838795

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO. SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: Bldg 57 Below area 10 E + F

	SAMPLE I.D. NO.	TYPE*	ROOM NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	06-0777850-1	B	1	Trench on Dust made in central area	area	pcs
2	06-0777850-2	D	1	" " " "	"	"
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE 6-9
JOB NO. 7021-46 BATCH NO N4 14741
CLIENT NAME American Airlines
SAMPLER'S NAME J. Marie
SIGNATURE J. Marie
DATE 06.06.93 TIME COMPLETED 1600
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: Kathy Villacac
DATE: 6/9 TIME: INITIALS:
ANALYZED BY G. Harris TIME 6/10/93
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS CH	AM	CR	AC	AN	TR	CONCENTRATIONS OF OTHER COMPONENTS FG	MW	CL	SY	HA	NF	OT	method	color	COMMENTS
1	23005												100		SO	GY	
2	06												100		SO	GY	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	

Reviewed 6/10/93

Reviewed 6/14/93

ADDITIONAL COMMENTS & NOTES: FAX to J.M. 2129538795

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS
B – BULK MATERIAL	CH – CHRYSOTILE	FG – FIBERGLASS
D – DEBRIS SAMPLE	AC – ACTINOLITE	MW – MINERAL WOOL
SD/T – SURFACE DUST - TAPE SAMPLE	AM – AMOSITE	CL – CELLULOSE
SD/V – SURFACE DUST - VACUUM SAMPLE	AN – ANTHOPHYLLITE	SY – SYNTHETIC FIBER
SD/G – SURFACE DUST - GRAB SAMPLE	CR – CROCIDOLITE	HA – HAIR
	TR – TREMOLITE	NF – NON-FIBEROUS MATERIAL
		OT – OTHER

CLIENT BILLING INSTRUCTIONS

NO. SAMPLES	RATE	SUBTOTAL

OUTSIDE LAB AUTHORIZATION

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USE BLACK INK, ONLY !! USE BLACK INK, ONLY !

PORT AUTHORITY OF NEW YORK AND NEW JERSEY AIRBORNE FIBER SAMPLING PROGRAM

10/89

Abatement Related [✓]
If yes, then:
Baseline ..... [ ]
Monitoring .... [ ]
Final Air ..... [✓]

FACILITY: JFK AREA: AMERICAN AIRLINES LOST + FOUND DATE: 12, 9, 89

Sample Type: - Check one -
Environmental [✓]
Personal [ ]
Other _____ [ ]

Cassette Size: - Check one -
25 mm [✓]
37 mm [ ]
Other _____ [ ]

Membrane Type: - Check one -
MCE [✓]
PC [ ]
Other _____ [ ]

Pore Size: - Check one -
0.8 um [✓]
0.45 um [ ]
Other _____ [ ]

Rotometer Number: #6

SAMPLE NUMBER	LOCATION / NAME	FLOW RATE (LITERS / MIN) INITIAL	FINAL	TIME (24 HOUR FORMAT) ON	OFF	LAB NUMBER	RESULT (f/cc)
JFK 1849A	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	10.0	10.0	1148	1430	14919	Less than 0.010
JFK 1850A	FIELD BLANK	—	—	—	—	14920	N/A

P836730

RECEIVED 89 DEC 13 AM 11:01 RISK MGT DIV.

COMMENTS: SAMPLES WERE TAKEN DURING FINAL AIR CLEARANCE

ASBESTOS MANAGMENT AND COMPLICANE DIVISION REPRESENTATIVE(S): —

AM & CD, PA CONSULTANT Richard Grady COMPANY: HYGIENETICS INC

* Results reported as "LESS THAN" are for upper 95 % confidence internal (i.e., "EMPLOYERS TEST FOR CONFIDENCE").

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Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766
LAB.NO.: 93-06766(P-08)
DATE: 04/20/93
NO. OF SAMPLES: Eight (8)

PROJECT NAME: JFK, Building 56
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 04/12/93
SAMPLING SITE: JFK, Building 56

DATE RECEIVED: 04/13/93
DATE ANALYZED: 04/13/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
041293385						
10	93B1968	TAN,2B	PLASTER	ND	--	CELL 3%, P & O 97%
11	93B1969	TAN,2B	PLASTER	ND	--	CELL 2%, P & O 98%
12	93B1970	TAN,2B	PLASTER	ND	--	CELL 2%, P & O 98%
13	93B1971	TAN,2B	PLASTER	ND	--	CELL 3%, P & O 97%
14	93B1972	TAN,2B	PLASTER	ND	--	CELL 5%, P & O 95%
15	93B1973	TAN,2B	PLASTER	ND	--	CELL 2%, P & O 98%
16	93B1974	TAN,2B	PLASTER	ND	--	CELL 2%, P & O 98%
17	93B1975	TAN,2B	PLASTER	ND	--	CELL 3%, P & O 97%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:	OTHER COMPONENTS:
1 = Amosite	FG - Fibrous Glass, CELL - Cellulose,
2 = Chrysotile	SYN - Synthetics, CT - Cement, P - Plaster
3 = Crocidolite	B - Binder, O - Opaques, M - Magnesia, V - Vinyl
4 = Other (Specify)	VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA Method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

[illegible] URBAN AVE. PO BOX [illegible] WESTBURY [illegible] 11590-0139 • (516) 334-[illegible] • (800) 433-[illegible] • FAX NO. (516) 334-[illegible]
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P 722287

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Laboratory Testing Services

RECEIVED MAR 22

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10022
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-03)
DATE: 03/10/93
NO. OF SAMPLES: Three (3)

PROJECT NAME: 3/2/93
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 02/22/93
SAMPLING SITE: JFK Airport, Building 56

DATE RECEIVED: 02/28/93
DATE ANALYZED: 03/02/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
022693385						
01	93B0870	GREY,2B	CEILING	ND	--	FG 5%, CELL - TR, P & O 95%
02	93B0871	GREY,2B	CEILING	ND	--	CELL - TR, P & O 100%,
03	93B0872	GREY,2B	CEILING	ND	--	CELL 2%, P & O 98%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:
1 = Amosite
2 = Chrysotile
3 = Crocidolite
4 = Other (Specify)

OTHER COMPONENTS:
FG - Fibrous Glass, CELL - Cellulose,
SYN - Synthetics, CT - Cement, P - Plaster
B - Binder, O - Opaques, M - Magnesia, V - Vinyl
VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

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P 722288

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Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10022
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-03)
DATE: 03/10/93
NO. OF SAMPLES: Two (2)

PROJECT NAME: 7021.46
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 02/23/93
SAMPLING SITE: JFK Airport, Building 56, Phase I

DATE RECEIVED: 02/23/93
DATE ANALYZED: 02/24/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
022393385						
09	93B0495	YELLOW,2A	MASTIC	ND	--	CELL 3%, B & O 97%
10	93B0496	YELLOW,2A	MASTIC	ND	--	CELL 2%, B & O 98%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:	OTHER COMPONENTS:
1 = Amosite	FG - Fibrous Glass, CELL - Cellulose,
2 = Chrysotile	STH - Synthetics, CT - Cement, P - Plaster
3 = Crocidolite	B - Binder, O - Opaques, M - Magnesia, V - Vinyl
4 = Other (Specify)	VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

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Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-11)
DATE: 05/25/93
NO. OF SAMPLES: Three (3)

PROJECT NAME: JFK Building 56, Phase VII
SAMPLING AGENCY: H+GCL
SAMPLING DATE: 05/03/93
SAMPLING SITE: JFK, Building 56

DATE RECEIVED: 05/05/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
050393385						
34	93B2523	GREY,2B	CEILING MATERIAL	ND	-	CELL - TR, P & O 100%
35	93B2524	GREY,2B	CEILING MATERIAL	ND	-	CELL 5%, P & O 95%
36	93B2525	GREY,2B	CEILING MATERIAL	ND	-	CELL - TR, P & O 100%

Asbestos Content reported as % by volume.
ND = None Detected

ASBESTOS TYPE:
1 = Amosite
2 = Chrysotile
3 = Crocidolite
4 = Other (Specify)

OTHER COMPONENTS:
FG - Fibrous Glass, CELL - Cellulose,
SYN - Synthetics, CT - Cement, P - Plaster
B - Binder, O - Opaques, M - Magnesia, V - Vinyl
VERM - Vermiculite, AH - Animal Hair, T - Tar

*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

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P 722302

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Laboratory Testing Services

LAB. NO.: 93-06766(P-11)

CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young, Ph.D.
Vice President
Chief Operating Officer

David C. Harvey
President

vl

NVLAP ACCRED. # 1332 NYS ELAP APPROVAL # 10837 AIHA ACCRED. # 333

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Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc with respect to the services charged for herein shall in no event exceed the amount of the invoice.

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P 722303

P-22D-24

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: JFK Bldg 56 Phase VII W/A 11

	SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	05031536534	B	1	Ceiling material between line column 8 & 9		
2	35	B	1	Ceiling material between line column 8 & 9		
3	36	B	1	Ceiling material between line column 8 & 9		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE:
JOB NO.: 702146 BATCH NO.: NY14505
CLIENT NAME: American Airlines
SAMPLER'S NAME: [illegible]
SIGNATURE: [illegible]
DATE: 5/3/97 TIME COMPLETED: 1600
DELIVERED TO LAB BY:

LAB NAME:
ADDRESS:
RECEIVED BY: [illegible]
DATE: 5593 TIME: INITIALS:
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS							COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

ADDITIONAL COMMENTS & NOTES: Fax to J. Micid @ 2129232795 + 7126561102. ASAP. Thanx

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO SAMPLES / RATE / SUBTOTAL OUTSIDE LAB AUTHORIZATION

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P 722306

PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL FIELD OPERATIONS DIVISION
SAMPLE DATA SHEET

REPORT # 2160
SURVEY # 001

FACILITY: JOHN F. KENNEDY INTERNATIONAL AIRPORT

LOCATION: AMERICAN AIRLINES

BUILDING: 10

AREA DESCRIPTION: HANGAR #10

FLOOR: 3

SAMPLE NUMBER	LOCATION	RESULT
JFK-24199	GRAY FIBROUS FIREPROOFING MATERIAL COLLECTED BY COLUMN 4-B, LOCATED IN THE EAST WING OF HANGAR #10.	40% AMOSITE ASBESTOS SAMPLE DATE: 05/23/94
JFK-24200	GRAY FIBROUS FIREPROOFING MATERIAL COLLECTED FROM 10' SOUTH OF COLUMN 4-B, LOCATED IN THE EAST WING OF HANGAR #10.	45% AMOSITE ASBESTOS SAMPLE DATE: 05/23/94
JFK-24201	GRAY FIBROUS FIREPROOFING MATERIAL COLLECTED BY NORTHEAST OF 1,2,3 SHELVES, LOCATED IN THE EAST WING OF HANGAR #10.	45% AMOSITE ASBESTOS SAMPLE DATE: 05/23/94
JFK-24202	GRAY FIBROUS FIREPROOFING MATERIAL COLLECTED FROM NORTHEAST OF EAST EMERGENCY EXIT, LOCATED IN THE EAST WING OF HANGAR #10.	45% AMOSITE ASBESTOS SAMPLE DATE: 05/23/94
JFK-24203	WHITE/GRAY CEMENTITIOUS PIPE INSULATION MATERIAL COLLECTED FROM INSIDE THE NORTHWEST OFFICE, LOCATED IN THE EAST HANGAR #10.	55% AMOSITE ASBESTOS 5% CROCIDOLITE ASBESTOS SAMPLE DATE: 05/23/94
JFK-24204	WHITE/GRAY CEMENTITIOUS PIPE INSULATION MATERIAL COLLECTED FROM INSIDE THE NORTHWEST OFFICE, LOCATED IN THE EAST HANGAR #10.	35% CHRYSOTILE ASBESTOS 20% AMOSITE ASBESTOS 5% CROCIDOLITE ASBESTOS SAMPLE DATE: 05/23/94
JFK-24205	WHITE/GRAY CEMENTITIOUS PIPE INSULATION MATERIAL COLLECTED FROM INSIDE THE NORTHWEST OFFICE, LOCATED IN THE EAST HANGAR #10.	55% AMOSITE ASBESTOS 5% CROCIDOLITE ASBESTOS SAMPLE DATE: 05/23/94

FINAL REPORT

PRIORITIZATION ASBESTOS ASSESSMENT STUDY

JFK INTERNATIONAL AIRPORT
NEW YORK, NEW YORK

for

The Port Authority of New York and New Jersey

Conducted By

Hall-Kimbrell Environmental Services, Inc.
New York, New York

Project Number N70277

November 17, 1989

Hall-Kimbrell

FINAL REPORT

PRIORITIZATION ASBESTOS ASSESSMENT STUDY

JFK INTERNATIONAL AIRPORT
NEW YORK, NEW YORK

for

The Port Authority of New York and New Jersey

Project Number N70277

November 17, 1989

PA 078628

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EXECUTIVE SUMMARY

JFK INTERNATIONAL AIRPORT, NEW YORK, NEW YORK FOR THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

Hall-Kimbrell Environmental Services was retained by the Port Authority of New York and New Jersey to conduct an area by area inspection for friable and nonfriable buildings materials suspected to contain asbestos. The inspection included 196 facilities, the chilled and hot water distribution tunnel system, and the two fuel farms. Of the 196 buildings identified on the building list included in Attachment III of the contract, 7 were found to have been demolished and 73 were identified as containing no suspect materials. A total of 114 buildings were identified as having asbestos-containing materials. Of the 189 facilities, 9 are airline terminal buildings.

Asbestos-containing materials identified during the inspection included friable surfacing material (acoustical/ decorative plasters and fireproofing); mechanical insulation on boilers, breeching, piping, and storage tanks; nonfriable floor tiles; roofing material; corrugated and flat cement board; and various nonfriable materials.

As a result of the inspection and laboratory analysis of bulk samples collected, four priority levels were generated to assist in planning and implementing a phased abatement program. Priority Level I areas contain materials which will require immediate attention due to poor material condition and/or ease of public access. Priority Level II through IV areas contain materials with decreasingly lower exposure potentials. These materials should be repaired as necessary and monitored as part of an operations and maintenance program until removal is dictated by deteriorating material condition, renovation or demolition of the facility, or a phased abatement. Please refer to Chapter IX for an explanation of phased abatement.

Asbestos-containing materials that pose a high exposure potential to personnel working in those areas were identified as Significant Potential Hazards. A Significant Potential Hazard report was completed at the time of the inspection and copies of those reports were submitted to the Department of Environmental Control at the airport. A list of Significant Potential Hazard areas has been included with this report in Appendix D.

As a budgetary measure, cost estimates have been prepared for each building by priority level, where applicable. The total cost for removal of all asbestos-containing materials in all facilities and replacement, where applicable, with nonasbestos-containing materials has been estimated at $225,579,332.

PA 078630

ESTIMATED REMOVAL AND REPLACEMENT COSTS
INCLUDING CONTINGENCY, ARCHITECTURAL/ENGINEERING, AIR MONITORING, AND REIMBURSABLE FEES

BUILDING NUMBER/NAME	PRIORITY LEVEL I	PRIORITY LEVEL II	PRIORITY LEVEL III	PRIORITY LEVEL IV	TOTAL
1/Northwest Hangar 1	$49,996	$164,041	$1,408,481	$216,744	$1,839,262
2/Northwest Hangar 2	—	191,553	1,324,560	236,731	1,752,844
3/Flying Tigers Hangar					477,034++
4/United Airlines Hangar					53,286++
5/Air Express International Hangar					71,626++
6-6a/Flying Tigers Cargo Hangar	157,192+		368,350	70,501	596,043
7/Alitalia/Varig Hangar	90,817+		1,653,102	466,205	2,210,124
8/United Airlines Hangar 8	710,455	177,301	637,047	274,490	1,799,293
9/Eastern Airlines Hangar 9	232,348	13,842*	387,672	294,919	928,781
10/American Airlines Hangar 10	3,465,790	1,540,384	2,608,590	71,223	7,685,987
11/Federal Aviation Administration Hangar	81,721	215,388	426,863	634,518	1,358,490
12/TWA Maintenance Hangar	—	468,039	1,215,339	218,406	1,901,784
14/Pan Am Airlines Hangar 14	420,029	4,486,663	2,251,957	2,084,895	9,243,544
15/Swissair Hangar	—	107,067	44,688	1,151,271	1,303,026
16/Pan Am Airlines Hangar 16	53,382	136,007	884,681	61,476	1,135,546
17/Pan Am Airlines Hangar 17	319,134	93,533	262,394	64,278	739,339
19/Pan Am Airlines Hangar 19	1,427,791	826,661	315,975	459,000	3,029,427
48/Gas Valve House	—	—	35,871	—	35,871
49/Central Heating and Refrigeration Plant	499,112	568,820	557,076	334,874	1,959,882
50/International Arrivals Building	11,038,511	4,270,480	3,454,004	989,154	19,752,149
53/Pan Am Airlines Unit Terminal	12,550,585	7,001,479	32,394,148	1,758,027	53,704,239
54/Northwest Airlines Unit Terminal	7,906,940+		1,031,206	2,635,010	11,573,156
55/Eastern Airlines Unit Terminal	97,496	2,482,562	3,206,503	1,836,067	7,622,628
56/United Airlines Unit Terminal	194,772	11,533,877	—	383,299	12,111,948
57/American Airlines Unit Terminal	2,733,027	8,272,673	264,513	110,770	11,380,983
58/TWA Unit Terminal (Domestic)	2,418,479+		584,261+		3,002,740
59/British Airways Terminal	32,177	1,938,557	4,101,492	637,268	6,709,494
60/TWA Unit Terminal (International)	3,648,593+		746,173+		4,394,766
61/Water Chiller Tower	—	—	149,554	—	149,554
62/Water Chiller Tower	—	—	98,133	—	98,133
63/Water Chiller Tower	—	—	105,460	—	105,460
66/British Airways Unit Cargo Building	242,520	857,962	58,229	98,723	1,257,434
67/Pan Am Airlines Unit Cargo Building	4,511,524	—	81,184	666,211	5,258,919
68/Cargo Service Building	—	31,032	—	878*	31,910
72/Citibank Building	—	—	38,241	10,829*	49,070

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

\+ Combined costs for materials in one or more priority levels.

ESTIMATED REMOVAL AND REPLACEMENT COSTS
INCLUDING CONTINGENCY, ARCHITECTURAL/ENGINEERING, AIR MONITORING, AND REIMBURSABLE FEES

BUILDING NUMBER/NAME	PRIORITY LEVEL I	PRIORITY LEVEL II	PRIORITY LEVEL III	PRIORITY LEVEL IV	TOTAL
80/Cargo Service Building	—	32,541	141,671	226,769	400,981
81/Cargo Building	204,627	49,014	—	106,201	359,842
82/Cargo Building	470,536+		71,169+		541,705
83/Air France Cargo Building	2,303,852+		58,337	167,910	2,530,099
84/Cargo Building	34,134	—	88,737	—	122,871
86/Cargo Building	5,511+		575,679	158,428	739,618
87/KLM-AER Lingus Cargo Building	49,632+		166,845+		216,477
88-88a/Hudson General Cargo Building	46,970	40,640	48,990	97,576	234,176
89/Triangle Aviation Cargo Building					72,217++
90/Allied Fuel Distribution Maintenance Garage					88,541++
93/Eastern Airlines Storage Building	—	—	7,191*	—	7,191*
94/TWA Hangar 12/ Flammable Storage Building					12,999++
95/TWA Hangar 12/Commissary	67,051	340,130	29,929	416,728	853,838
96/TWA Hangar 12/Maintenance Garage	134,376	—	75,797	8,492*	218,665
106/Port Authority Survey Group Storehouse					49,011++
110/Airline Services Building	54,237	—	111,085	42,288	207,610
111/Fitzgerald Federal Building	144,725	279,223	4,480,973	446,995	5,351,916
113/Fuel Farm Accounting Office		—		8,778*	8,778*
114/Fuel Farm Toolhouse	—	—	—	2,633*	2,633*
122/American Airlines Flight Kitchen	—	—	—	316,068	316,068
123/American Airlines Cargo Building	—	—	88,833	134,413	223,246
124/New York Telephone Building				5,882*	5,882*
125/Allied Aviation Building					98,547++
127/West Center Lean-to/Hangars 3 and 4	135,961	573,775	361,339	3,621*	1,074,696
128/East Center Lean-to/Hangars 4 and 5					157,196++
133/United Airlines Pump House 74	8,482*				8,482*
134/Amoco Gas Station/Site 1	—	—	—	—	—
139/Marriott Commissary	—	191,476	300,171	—	491,647
140/Jamaica Oil Company Building					62,799++
141/Port Authority Administration Building	—	—	314,515	—	314,515
142/Allied Aviation Maintenance Shops	—	48,226	—	368,448	416,674
143/Marriott Commissary	—	—	338,783+	—	338,783+
144/International Hotel	917,786	253,949	973,135	59,987	2,204,857
146/Aero Enterprises Commissary	272,260	689,919	643,832	96,500	1,702,511

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

\+ Combined costs for materials in one or more priority levels.

ESTIMATED REMOVAL AND REPLACEMENT COSTS
INCLUDING CONTINGENCY, ARCHITECTURAL/ENGINEERING, AIR MONITORING, AND REIMBURSABLE FEES

BUILDING NUMBER/NAME	PRIORITY LEVEL I	PRIORITY LEVEL II	PRIORITY LEVEL III	PRIORITY LEVEL IV	TOTAL
147/New York Telephone Company Communications Center	68,391	46,673	1,164*	3,774*	120,002
150/Servair Garage		28,733+			28,733
155/Control Tower	180,234	74,810	215,310	426,496	896,850
161/Port Authority Fire Pump Station					73,715++
178/Seaboard/Western Office Building Extension Office	—	73,499	1,392,220	139,062	1,604,781
179/DHL Corporation Cargo Building	—	35,455	99,116	298,376	432,947
181/Catholic Church					42,397++
182/Synagogue					197,198++
183/TWA Commissary	251,640	46,344	155,439	635,209	1,088,632
184/Protestant Chapel					30,824++
189/ASPCA Animal Shelter					50,842++
192/West Lean-to/Hangar 3	—	—	306,755	86,144	392,899
193/East Lean-to/Hangar 5					319,474++
196/Ogden Food Storage Building					10,781++
197/Lockheed Building	—	—	299,083	—	299,083
198/Medical Office Building	—	—	—	1,580*	1,580*
199/Carey Transport Garage					12,722++*
204/National Car Rental Service Center	—	—	—	—	—
206/Old Hertz Service Center	—	—	8,787*	—	8,787
207/Avis Service Center	—	—	10,566*+		10,566*+
208/Pan Am Airlines Jet Center	3,681,530	5,409,875	228,900	381,354	9,701,659
209/Pan Am Airlines Utilities Plant	105,488	478,638	1,113,237	60,218	1,757,581
210/Pan Am Airlines Waste Treatment Plant	—	—	—	—	—
211/Pan Am Airlines Cooling Towers	—	—	—	135,871	135,871
212/Pan Am Airlines Fuel Tanks	14,211+*				14,221*
213/Pan Am Airlines Material Center	988,175	—	37,345+		1,025,520
214/215/Pan Am Airlines Jet Test Cells	653,227	59,266	124,213	93,765	930,471
238/Storm Water Pump House 3	—	—	5,443*	—	5,443*
239/Sanitary Sewer Lift House 1	—	2,834*	—	—	2,834*
241/Satellite Foam and Control Building	—	—	—	1,757*	1,757*
250/Air Mail Facility	—	—	214,845	4,752,068	4,966,913
252/Satellite Police Garage	—	—	13,571+		13,571+
260/Korean Airlines Cargo Building	903,982	—	1,133,787	45,610	2,083,379

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

\+ Combined costs for materials in one or more priority levels.

ESTIMATED REMOVAL AND REPLACEMENT COSTS
INCLUDING CONTINGENCY, ARCHITECTURAL/ENGINEERING, AIR MONITORING, AND REIMBURSABLE FEES

BUILDING NUMBER/NAME	PRIORITY LEVEL I	PRIORITY LEVEL II	PRIORITY LEVEL III	PRIORITY LEVEL IV	TOTAL
261/Lufthansa Cargo Building					310,555++
262/Flying Tigers Cargo Warehouse					147,286++
263/SAS/JAL Cargo Building	—	1,940*	290,158	936,052	1,228,150
267/Pan Am Airlines Main Base Guardhouse	—	—	—	12,728	12,728*
269/Police and Aeronautic Service Building	45,977+	—	31,036	151,849	228,862
296/TWA Unit Terminal Service Station	—	—	172,789	46,005	218,794
298/Pan Am Airlines Unit Terminal Building B	—	—	10,256+		10,256*
299/Pan Am Airlines Unit Terminal Building C	—	6,608+		—	6,608*
308/National Car Rental Office and Service Building	—	—	—	—	—
— /Large Fuel Farm	—			91,592+	91,592
— /Satellite Fuel Farm	—	—	47,118	—	47,118
— /Distribution System	—	—	—	2,256,507	2,256,507
TOTAL	$64,625,386	$54,092,475	$75,532,910	$28,989,501	$225,579,332

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

\+ Combined costs for materials in one or more priority levels.

I. INTRODUCTION

Asbestos, once commonly referred to as the miracle mineral, has been used as a reinforcement fiber for more than 3,000 years. Because of the abundant availability of the fiber, its acoustical and tensile qualities, and its resistance to fire and chemicals, asbestos has been used extensively in building materials since before the turn of the century.

However, inhalation of asbestos fibers has recently been found to be a health hazard to humans, and building owners may be held liable for the presence of the fibers and subsequent inhalation by occupants. Due to these factors, a move is presently under way among building owners in both the public and private sectors to identify any asbestos-containing materials (ACM) in their buildings. This identification is accomplished by building inspections, which are the first step in a plan to effectively control and/or remove any known asbestos-containing materials found.

The main purposes of these inspections are: identification of asbestos-containing materials, determination of the potential for exposure within each building, and generation of budgetary cost estimates for removal of asbestos-containing materials. Once the asbestos-containing materials are identified and assigned a Priority Level, their removal should be addressed in a phased abatement program. A phased abatement is designed to remove those materials possessing the highest exposure potential (and therefore posing the greatest health risk) first, and to then work through the lower exposure potentials.

Current EPA statutes address only presently friable (easily crumbled) materials. Nonfriable building materials do not create an environmental exposure unless they are sawn, broken, ripped or pulverized. However, even materials that are well wrapped and technically nonfriable at the time of inspection have the potential to become friable very readily by accidental tearing or other disturbance. It is for this reason that Hall-Kimbrell's policy is to address all materials which are potentially friable as well as those presently friable.

This report has been organized in a manner that presents the data in several forms to best suit the needs of the building owner. The Quality Control and Method of Quantification section explains our testing and quality control methods. The Synopsis of Anticipated Abatement Cost covers the options and estimated costs for abatement of asbestos-containing materials. The Petrographic Results section is a listing of samples taken and their asbestos content.

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III. PRIORITY LEVEL DETERMINATION/ PORT AUTHORITY AREA DESIGNATION

As a result of the inspection and laboratory analysis of bulk samples collected, Hall-Kimbrell has generated an exposure potential number for each area in which asbestos-containing materials are present. The prioritization scheme used by Hall-Kimbrell is different from the rating scheme used by The Port Authority, and, as a result, a correlation must be made by substituting Hall-Kimbrell Priority Levels for the Port Authority Designated Response Action designations. The correlation made in this chapter will be used throughout the remainder of the document; however, the substitution will not be shown in the spreadsheets and other support data. This substitution should be referenced when planning remedial actions for each respective occurrence.

The Hall-Kimbrell rating system is a variation of the numerically-based Sawyer algorithm. While the six primary variables are identical to those of the Sawyer algorithm, there are two subvariables used to adjust the subjective score. The six primary variables are material condition, activity/movement, accessibility, water damage, exposed surface area, and air plenum/direct air stream. The two subvariables are asbestos content and friability. A numerical rating of each variable is assigned to the material, and an exposure number is then calculated. The calculation procedure is as follows: The sum of the six variables is multiplied by each of the two subvariables to obtain the final exposure number. The final exposure number is then categorized into one of the four priority levels. Priority Level I materials are those that are seriously damaged and Priority Level IV materials are presently in good condition in terms of the variables mentioned above. The Port Authority rating system uses the following four levels: Immediate Response Condition, Priority Area, Operations and Maintenance Area, and Controlled Condition. The Immediate Response Condition category represents those materials that are most seriously damaged and have emitted friable debris, and the Controlled Condition category represents the materials that are in good condition, without visible damage. These two rating systems are very similar in many aspects and will be related in the following manner:

Port Authority Designation	Hall-Kimbrell Exposure Potential	Hall-Kimbrell Designation
Immediate Response Condition	60 - 162 plus debris	Priority Level I
Priority Area	60 - 162	Priority Level I
Operations & Maintenance Area	20 - 59	Priority Levels II & III
Controlled Conditions	1 - 19	Priority Level IV

Immediate Response Condition areas will be those designated by Hall-Kimbrell as Priority Level I, exposure potential numbers 60 - 162 that also have debris present. An Immediate Response Condition exists if there is an unavoidable risk potential due to the disturbance of asbestos fallout material within a specific area, which includes evidence of asbestos materials separated from initial installation, deteriorated condition of existing asbestos material, high risk of contact, or the possibility of causing unacceptable levels of airborne asbestos in areas frequented by employees and/or patrons. Air sampling should be initiated in all areas rated as IRC (Immediate Response Condition). The air sampling will be conducted by the Asbestos Management and Compliance Division. Redesignation of these locations should take place after the Immediate Response has been completed.

In order for a location to be designated a Priority Area, the asbestos material must be in disrepair or accessible to the extent that worker activity or other forces could produce an increase in the level of airborne asbestos fibers. As with an IRC, Priority Areas should receive air sampling as additional input for the risk assessment analysis. Periodic reinspection of conditions in a Priority Area is mandatory. Once a Priority Area is identified by the Asbestos Management and Compliance Division, the facility must institute the appropriate measures. All precautions to be taken in an Operations and Maintenance Area must also be followed.

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This type of asbestos condition is frequently found where the ACM is installed in a location that is not directly accessible to employees or the public. However, for operational or maintenance purposes, employees may be required to work in close proximity, and thereby increase the risk of disturbance, to the asbestos. In these areas, workers and building occupants must be alerted to the location of the ACM as applicable; personnel must be trained in proper cleaning, maintenance, repairs, and renovations; and all such areas must be periodically reinspected by the facility.

Routine monitoring should be performed when asbestos material is found to be in a controlled condition and the potential for disturbance is remote (e.g. asbestos within a steel fire door, most asbestos vinyl tile installations, completely encased ACM, etc.). This type of condition often involves nonfriable material or friable material that is inaccessible under normal circumstances. Reinspection in a controlled condition is less important than for Operations and Maintenance Areas, but should be performed periodically by the facility to insure the continuity of the controlled condition.

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IV. SAMPLING RULES AND PROCEDURES

SAMPLING RULES

1. Sampling protocol may change to fulfill a particular client's needs. Check the proposal, contract, and/or RFP prior to job start for this information.

2. Never sample in occupied areas. Sampling is always done in nonoccupied areas such as mechanical rooms, pipe chases, attics, etc. where possible. If sampling must be done in occupied areas arrangements must be made to do it during off-hours such as in the evening or on the weekend.

3. Since buildings are constructed and materials are installed floor by floor, the various types of asbestos-containing materials in a building are usually homogeneous across a floor, but may vary between floors. For this reason, a single floor is the largest area that can be considered homogeneous. Therefore, samples of each different kind of material must be taken on every floor. If a suspect material such as corrugated pipe covering is found in a mechanical room or some other unoccupied area on a floor, then those samples can represent that material throughout that floor as long as its appearance does not change. If there is a suspect material, such as an acoustical plaster that is found within an occupied area, then it will have to be sampled during off-hours. Those samples will represent all acoustical plasters on that floor as long as its appearance does not change.

4. This is the 3-5-7 rule for Surfacing Materials (Acoustical Plasters, Thermal or Acoustical Insulations, and Fireproofing).

- up to 1,000 square feet	-- 3 random samples
- 1,000 to 5,000 square feet	-- 5 random samples
- 5,000 to 1,000 square feet	-- 7 random samples
- for every 5,000 square feet above 10,000 square feet	-- 1 more sample

5. For clients that are required to meet EPA compliance, a minimum of three negative samples of a suspect material is required to indicate the absence of asbestos in the material.

6. In a general assessment, pipe covering and mudded joint packings will be sampled and measured by pipe system unless otherwise noted. For example, each of the following systems are measured and sampled separately: domestic water lines (HW/CW), hot water heating system (HWS/R), steam heating system (HPS/R or LPS/R), chilled water system (CHWS/R), etc. See your Bulk Sample Code sheet for more examples. When pipes change size, the pipe covering may also change and should be checked each time the size changes.

7. In a general assessment, unless otherwise noted, three composite samples must be taken of all nonhomogeneous cementitious materials or materials where asbestos is not easily identifiable such as:

   - mudded joint fittings, especially those on fiberglass-insulated piping systems
   - mudded packings on boilers, tanks, breechings, or ducts.

   Three core samples are placed in one bottle to form one composite sample.

8. Note all cementitious and miscellaneous asbestos-containing materials (ACM), giving locations and quantities unless conducting a demolition/renovation survey or otherwise instructed.

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9. Sampling is generally the last thing done in each area after pressure testing, measuring, photographing, assigning sample numbers and evaluating the exposure potential algorithm.

10. In order to achieve representative sampling the site chosen for multisampling should span the length of the system and the variety of pipe sizes (in the case of pipe insulation) of each system.

    NOTE: Although a certain sampling protocol has been established in the preceding pages, the number of samples required to be taken during a survey may change according to the clients' needs.

    Since the number of samples greatly affects the cost of a survey, the number estimated to be taken can be adjusted to fit the clients' budgetary requirements and still maintain an accurate assessment of materials.

    The project manager will determine the sampling protocol prior to the survey.

SAMPLING PROCEDURES

1. Put on respirator and protective clothing (protective clothing is necessary in mechanical rooms and tunnels or any area where damage is extensive).
2. Place plastic drop cloth below area where sample will be taken.
3. Have zip-lock bags and paper towels available.
4. Wet small area where sample will be taken.
5. Cut triangle into material, wetting material after each cut.
6. Drop sample into vial and close lid tightly.
7. Fill hole with filling material or encapsulate the sampled area.
8. Apply red duct tape securely over the opening (do not apply tape to acoustical plasters or fireproofing).
9. Write sample number on tape, HK_____.
10. Clean drop cloth, area and equipment, especially the knife.
11. Dispose of or contain contaminated material such as paper towel and drop cloth.
12. Continue sampling, keeping track of sample numbers and corresponding BS (Bulk Sample) Code.

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V. THE HALL-KIMBRELL ALGORITHM

The theory of exposure potential is to determine, based on quantifiable numerical variables, those items which lend themselves to the propensity of a material being accidentally disturbed. Exposure potential concerns itself with what the potential is for a worker or building occupant to be accidentally exposed to a sudden peak dose of fibers released from the material. An exposure potential is to be calculated for each area of content of over one percent. One of the most frequently used guidelines for the evaluation of asbestos exposure potentials was developed by Dr. Robert Sawyer, a professor at Yale University, during the late 1970s, and is recommended by the United States Environmental Protection Agency (USEPA) for evaluating the asbestos potential in public schools.

THE HALL-KIMBRELL ALGORITHM

The Hall-Kimbrell algorithm is an expansion of the old EPA or Sawyer algorithm. In addition to the first six primary variables, which are identical to those of the Sawyer algorithm, a number of subvariables are taken into consideration. These subvariables allow the subjective or general score to be adjusted so that it more accurately reflects the actual exposure hazard for an area.

The following are the variables used by Hall-Kimbrell during the building survey. It is imperative that you understand the meaning of each variable and how that variable effects the final exposure number. Remember that the upper limit of each variable is the largest value possible for that variable regardless of adjustment made to the original score.

MATERIAL CONDITION (MC)

Material condition is simply the condition of the material at the time of the inspection. Factors to look for include the quality of installation, adhesion of the material to the underlying substrate, deterioration of the outer covering, delamination, contact damage, and material disintegration. The numerical range is 0-5:

0 = No damage, excellent condition
1 = Very minor damage, no visible debris
2 = Damage is evident, small area
3 = Damage is easily seen, some debris
4 = Damage is widespread, debris is common
5 = Most or all material is damaged, hanging, and/or found as debris throughout the area

After a subjective score is determined from the above guidelines it should be adjusted according to the following criteria:

Building Age:	> 30 years old	+1
	15-30 years old	0
	< 15 years old	-1
Type of Material:		
Pipe Covering	mag/cal silicate	+1
	air cell/paper	-1
Ceiling Plasters or Fireproofing	cementitious (Monokote)	-1
	standard	0
	"cotton candy" texture	+1

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WATER DAMAGE (WD)

This factor relates to the potential for water to dislodge, delaminate, and disturb materials. Water damage weakens the binding matrix of the material and can carry fibers in a slurry to other areas in the building where they can become re-entrained in the air. The rating for this variable ranges from 0-2:

0 = No water damage at all.
1 = A small amount of damage can be seen; damage is localized rather than widespread.
2 = The material has a good deal of water damage; damage is widespread rather than localized.

Be sure to ask your escort if any previous water damage has occurred. Discoloration of materials and mildew are some signs to look for.

After the subjective score is determined from the above guidelines it should be adjusted according to the following criteria:

Roof Characteristics:	sloped or hipped	-1/2
	metal or concrete	-1/2
	flat or built-up	+1/2

EXPOSED SURFACE AREA (ESA)

The exposed surface area of friable material has an effect on potential fiber fallout levels and the possibility for contact and damage. A useful criteria in determining ESA is whether or not the friable asbestos material is visible. Materials usually fall in one of the following categories; out in the open (fully exposed), above or behind a semipermanent enclosure such as a wall, ceiling or floor, and above or behind a permanent enclosure. Areas with louvers, grids, or other open ceiling systems are considered exposed. The range of this variable is 0-4:

0 = Material is behind some type of permanent enclosure.
2 = Material is behind a lay-in ceiling or in an open tunnel.
4 = Material is exposed.

ACCESSIBILITY (AC)

If the material can be reached, it is accessible and subject to accidental or intentional contact and damage. The range of this variable is 0-4:

0 = Totally inaccessible.
1 = Can reach it only with hands (ex.: pipe chase with small access door).
2 = An open tunnel or above a drop ceiling.
3 = Exposed overall, but cannot reach it, material height is greater than ten feet.
4 = Material is out in the open and is less than ten feet high.

If the area is accessed frequently the score should be increased by one (+1). If the area is behind a locked door the score should be decreased by one (-1).

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ACTIVITY AND MOVEMENT (A/M)

Occupancy and mechanical vibrations are two important factors to consider. The higher the occupancy, the more vibration from noise and physical movement, and the greater the ambient fiber release. It also plays an important role in determining abatement priority. Mechanical vibrations, especially in boiler and mechanical rooms not only create ongoing ambient fiber release but when the system is turned on or off there is a sudden burst of mechanical and air movement which creates a brief peak exposure. The range of this variable is 0-2:

0 = No occupants enter the area (ex: behind a permanent wall).
1 = The area is accessed infrequently (ex: a tunnel, boiler room, or storage room).
2 = The area is accessed frequently (ex: offices and terminals).

The original score should be adjusted according to the following factors:

Work Environment:	Sedentary (ex: closet)	-1/2
	Nonsedentary (ex: restroom, hallway)	+1/2
	No Recognizable Vibration	-1/2
Sound and Mechanical Vibrations:	Frequent or Constant (ex: cargo area, boiler room, air handling room)	+1/2
	No Recognizable Vibration	-1/2

AIR PLENUM/AIR STREAM (AP)

A direct air stream running across a material erodes the material and thereby releases fibers into the air. If the area in question is forming a supply air plenum, there is usually a great deal of exposure to building occupants since the contaminated air is blown directly into the rooms of the building. Return air plenums do not create quite as high of an exposure potential as supply air plenums, but do contribute to the exposure of maintenance and mechanical workers accessing those areas.

This variable is not judged as to whether there is an air stream at the time of inspection, but as to whether the potential exists for an air stream. An example of a potential air stream would be a fan present, but not in use, at the time of the survey. The range of this variable is 0-1:

0 = No air plenum or air flow exists.
1 = An air plenum or air flow potential exists.

The score should be adjusted according to the following criteria:

Velocity:	recognizable by human feeling	+1/4
	unrecognizable by human feeling	-1/4
Flow:	constant steady stream	-1/4
	impact, gusty flow	+1/4

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FRIABILITY (F)

Friability is the ease with which a material can be crumbled, pulverized, or reduced to powder, when dry, by hand pressure. The more friable the material, the greater the potential for fiber release and contamination. Hall-Kimbrell uses the premise that all noncementitious materials have a friability of at least one (1). Since friability is a multiplicative variable within the algorithm, if the friability value is chosen to be zero (0), the final exposure number will be zero (0). If the exposure number is zero (0) then we are saying that there is no potential for exposure in that area. This is never the case. If asbestos is present in any form then there is always the potential for exposure. Friability has a numerical range of 1-3:

1 = Indicative of material that is very hard to crumble under hand pressure. (ex: mechanical insulations in good condition; encapsulated acoustical plaster).

2 = Indicative of material that will crumble under a little hand pressure or of material that releases fibers onto your hand when it is run gently across the material.

3 = Indicative of material that is extremely easy to dislodge. It will crumble under light hand pressure or when exposed to a gentle air current. A friability value of 3 indicates a very serious situation.

Remember that the friability value should apply to the entire area. An insulated run of pipe with a few damaged areas should be given an overall value of one (1). The following friability scores are used as a general guide:

Plaster and Fireproofing:	hard, cementitious plasters	1
	Monokote fireproofing	2
	vermiculite and perlite plasters	2
	Cafco Blaze Shield or acoustical "cotton candy" type material	3
Mechanical Insulations:	very good condition	1
	worn and damaged overall	2
	exposed, degraded, crumbling (evidence of dust and debris)	3

ASBESTOS CONTENT (ASB)

The asbestos content will be the mean value of all samples analyzed from a homogeneous area. With a high percentage of asbestos, there are more fibers that can be released and contaminate the building environment. The value of this variable is determined through laboratory analysis of samples. It is useful to the field hygienists however, to estimate the probable asbestos content so that an approximate exposure number can be calculated and checked for accuracy during the survey.

The range of the variable is 0-3. The numerical value of one (1) is not used. The breakdown of values is as follows:

0 = No asbestos present (<1%)
2 = 1% to 50% asbestos
3 = 51% to 100% asbestos

In estimating the asbestos content, use the following guidelines:

Acoustical Plasters and Fireproofing	2
Mechanical Insulations	3

The exposure number is calculated in the following manner:

$$(MC + WD + ESA + AC + A/M + AP) \times (F \times ASB)$$

Example: if F=1, ASB=3, MC=2, WD=1, ESA=4, AC=4, A/M=1, AP=0

then $(2 + 1 + 4 + 4 + 1 + 0) \times (1 \times 3)$

$12 \times 3 = 36$

Exposure Number = 36

The field industrial hygienists are strongly urged to calculate the exposure number while doing the survey. Field hygienists do not determine the asbestos content of each material. We recommend that the field technicians assume the asbestos content of mechanical insulations to be less than fifty percent and the acoustical plasters; and fireproofing to be less than one percent and greater than fifty percent. Once these assumptions have been made, the exposure number may be generated.

By using the list below, the hygienist can determine if the priority level determined from the exposure potential number is representative of the area surveyed.

EXPOSURE POTENTIAL AND AREA DESIGNATION

Area designations are determined in part, based on the variables within the algorithm. If some part of any area differs significantly in one or more variables, that part should be treated as a separate exposure area. Two examples illustrate this:

> A run of insulated pipe is in good condition, but a small area is badly damaged due to a water leak. The water damaged section should be treated as a separate area because both the material condition and water damage variables are increased compared to the values assigned to most of the area.
>
> The corrugated steel upper ceiling of an entire floor of an office building is coated with fireproofing. A lay-in ceiling is in place throughout the floor with the exception of two offices where the fireproofing is totally exposed. The exposed surface area and accessibility variables have higher values in the two offices, and they should be treated separately from the rooms with fireproofing above the lay-in ceiling.

If in each of these two examples, the separate areas are treated as one and assigned higher exposure numbers based on the small, more severely damaged and exposed areas, undue concern may result. If the areas are assigned lower exposure numbers based on the overall exposure potential, the small areas that deserve immediate attention may be overlooked, creating an exposure hazard. It is the responsibility of the field industrial hygienist to accurately assess the exposure potential of each and every exposure area surveyed.

VI. THE LABORATORY

A. HALL-KIMBRELL LABORATORY QUALITY CONTROL QUALIFICATION

Hall-Kimbrell maintains an in-house quality control program in addition to participating in the U.S. Environmental Protection Agency's quality assurance program from Research Triangle Park in North Carolina. Our in-house program consists of an introduction of 5 to 10% of total samples to be analyzed as blind unknowns to the analyst performing the analysis. The known compositions are kept by other members of the firm, and the results are checked subsequent to analysis. The unknowns used are taken from samples collected in the past which have been reported as well as mixtures of asbestos standards purchased separately.

B. METHOD OF QUANTIFICATION

Every sample is first mounted in the same refractive index liquid on two different slides. If necessary, the sample is mounted in a higher index liquid on two different slides in addition to the original two. Confirmation of a suspect fiber or nonfiber requires mounting in the refractive index liquid that best corresponds to its optimum dispersion staining colors.

By utilization of a mechanical stage on the Olympus BHTP, the mount is first searched for asbestos fibers. The fibrous and nonfibrous materials are then quantified by examination of twelve different viewing fields in each of the two or more slides used. The percents are estimated for each field of view, and subsequently the mean is computed and reported as percent of volume of the material. If trace amounts of asbestos fibers are seen, additional amounts are required for greater accuracy.

Estimated accuracy of this method: +/- 5% of amount reported.

C. PETROGRAPHIC RESULTS

The petrographic results of each sample analyzed are contained in the Building-by-Building section of this report. The analysis indicates whether the material was optically homogeneous, whether asbestos was present or absent, the percent of each type of asbestos and other material components within the sample, and sample and report number references. Since some building materials, especially mechanical insulations, contain more than one type of asbestos, the various types are indicated within the appropriate section of the petrographic form. Material components listed in the section of the form called "other" include binders, fillers, and other nonasbestos materials.

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VII. REPORT FORMAT FOR PETROGRAPHS

The Petrographic Analysis form represents the laboratory results of the analysis of all materials suspected of containing asbestos. This form contains columnar data which represent the composition of each sample analyzed. The explanation of each column is provided.

Multisample Number: The number designated to represent a group of samples collected from each suspect material addressed during the inspection.

Sample Number: A unique six-digit assigned to each bulk sample collected from materials suspected of containing asbestos.

Homo: This column specifies the homogeneous characteristics of each sample. "Y" designates the materials as homogeneous. "N" designates the materials as being nonhomogeneous.

Asb. Pres: This column identifies the bulk samples as containing or not containing asbestos by a letter "Y" or "N".

Total Asbestos: This column represents, by percentage, a summation of the asbestos components identified within a bulk sample.

Asbestos: The various types of asbestos minerals (chrysotile, amosite, crocidolite, anthophyllite, and tremolite) are listed in this section. If asbestos is identified in a bulk sample, the type of asbestos is measured by percentage by weight. The percentage of each asbestos mineral is listed below the appropriate heading. A summation of each asbestos component per sample is listed in the *Total Asbestos* column. If no asbestos was identified within the bulk sample, a "0" is used in each asbestos type column.

Other Materials: This section is used to briefly identify the nonasbestos components found in a bulk sample during analysis. These components are primarily binders and other matrices. These other materials are expressed numerically in a percentage by weight and when added to the percentage of asbestos (if present), the total components of the bulk sample should equal 100 percent.

Total: The total percentage of components comprising a bulk sample.

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PETROGRAPHIC CODES FOR "OTHER"

AH	ANIMAL HAIR
ANT	ANTIGORITE
B	BRUCITE
BIO	BIOTITE
C	CORK
CAL	CALCITE
CF	CERAMIC FIBER
CGF	CELLULAR GLASS FOAM
CH	CHERT
COT	COTTON
D	DIATOMS
DT	DIRT
F	FEATHER
FA	FLY ASH
FC	FIRED CLAY
GL	GLASS
GM	GRANULAR MINERALS
GYP	GYPSUM
H	HORNBLENDE
IP	INSECT PARTS
L	LIZARDITE
M	MICA (MUSCOVITE)
MAG	MAGNETITE
MF	METAL FOIL
NCL	SODIUM CHLORIDE
NFA	NONFIBROUS ACTINOLITE
NFT	NONFIBROUS TREMOLITE
O	OPAQUES
P	PICROLITE
PC	PORTLAND CEMENT
PL	PLASTIC
PT	PAINT
Q	QUARTZ
SF	SYNTHETIC FIBER
SFM	SYNTHETIC FOAM OR STYROFOAM
ST	STARCH
T	TALC
TAR	TAR
VR	VINYL RUBBER
W	WOLLASTONITE

The above legend is a reference to the one-, two-, or three-digit codes found in the column called "other" in this document. Please refer to this page when decoding is necessary for clarification.

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VIII. REPORT FORMAT FOR SPREADSHEETS

The field data and the laboratory results are analyzed by the Hall-Kimbrell management program. The results of this analysis are presented in spreadsheet format. These spreadsheets are contained in the Building-by-Building section of this report. Since the spreadsheet format is oriented to data only, a short explanation of each element contained therein is given below. The data is organized under twenty-four column headings. The following explains the content of each column and its relationship with the other items on the page.

HK Building #: This number is used by the Hall-Kimbrell data management department for file identification. It has no bearing on the report.

Building Number: This is the identification number assigned to the building by the facility owner/manager. The report has been organized in a building-by-building format which utilizes the client building number for identification.

Building Name: The actual name assigned to each building within the facility by the owner/manager. This name corresponds directly to the building number. If more than one building within a facility shares a common name, the building number uniquely identifies the building.

Building Type: This space grossly identifies the primary usage of the building.

Constructed: The initial construction date of the facility is listed here.

Inspected: The date of the building inspection is listed in this space.

Inspector: This space identifies the inspector(s) or senior inspection team member.

Area Number: This number has been assigned for data management purposes only.

Tenant: Several buildings contained multiple tenants. Where applicable, areas located within the buildings have been ordered alphabetically by tenant.

Area Description: A general description of the area where suspect materials were located.

Location of Material: A precise description of the location, within the area, of the suspect material.

Sample Number: A unique, six-digit number assigned to each bulk sample collected from the suspect material. The multisample group number is associated with the sample number in this column. (See multisample number in Chapter VII - Report Format for Petrographs.)

Bulk Sample Description: A description of the sampled suspect material.

O & M Code: A computer-generated code used in referencing the suspect material. (Data processing use only.)

Quantity: This is the actual quantity of the material to be used for estimating costs. The quantity is expressed in absolute units identified under the next column - Size. Quantities have been determined by on-site measurement or plan take-offs. Where access is restricted, best estimates are determined from whatever information is available. An accuracy factor of +/- 10% can be assumed.

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Size: This column indicates the units of measurement such as linear feet, square feet, or other applicable dimensions. The size of pipe indicated reflects the nominal outside diameter of the pipe with insulation. A four inch diameter pipe would be expressed as "4 in. O.D." Pipe lagging is expressed in units of linear feet, but mudded joint packings are expressed in numbers of individual units of the indicated size. The mudded joint packing designation includes any mudded material, such as hangar connections, elbow joints and valves. All fireproofing material is expressed in square feet of total beam and deck area, rather than square foot area of floor, and the figure has an accuracy factor of +/- 8%. All acoustical plasters and decorative plasters are expressed in total surface area, which usually corresponds to floor area, and this figure has an accuracy factor of +/- 5%. Any miscellaneous material such as wall plaster or asbestos-containing debris is expressed as an approximate quantity with a +/- 30% accuracy factor.

Pipe ID: The identification of the piping system insulated with suspect material. A complete listing of piping systems is found in Appendix A.

Total Percent Asbestos: Since the total percent of asbestos in a sample is one of the primary factors determining the potential for exposure, it is listed separately in terms of the total percentage. A more detailed breakdown of the types and percentages of each type of asbestos found in the sample can be found in the petrographic analysis for that sample. If a zero is present in this column, the sample contained no asbestos, and no exposure potential or cost estimates are listed in subsequent columns.

Exposure Potential: The exposure potential is determined for each area where asbestos-containing materials have been found. The exposure potential differs from actual ambient exposure. Ambient exposure refers to the amount of asbestos that is inhaled on a day-to-day basis in a contaminated building. Exposure potential is the possibility, expressed numerically, of an accidental disturbance of the material. The disturbance could be in the form of physical damage to the material, vibration from mechanical systems, water damage, or other causes. There are approximately 20 variables that are rated within the Hall-Kimbrell algorithm which determine the potential disturbance of the material and propensity for fiber release. The exposure potential is very important in determining priority for abatement as well as the necessity for immediate implementation of control measures.

Priority Level: The distribution of all numerical exposure potential values for all buildings contained in this study has been divided into priorities, with Priority Level I posing the greatest exposure hazard. Subsequent priorities characterize areas with lower exposure potentials. Exposure potential numbers are distributed on a continuum, and the priority is based on the distribution. Priority Level I usually designates those materials which are creating an exposure threat to the building occupants, as expressed by the exposure potential number as well as a subjective interpretation of the notes taken during the inspection. Although Priority Level II should be considered serious, it does not yield the degree of danger that Priority Level I does, and so on. The priority levels are primarily used in conjunction with a phased abatement program, where the highest priority areas are removed first and lower priorities are managed under an operations and maintenance program until they are removed.

Removal Cost: This is the portion of the cost associated with the removal of the asbestos-containing material. This cost includes area preparation prior to abatement and cleanup and disposal of waste after abatement. The removal cost does not include the costs incurred to gain access to some of the materials which may be enclosed behind ceilings or other obstacles.

Reinsulation Cost: This is the cost associated with reinsulation of the specific item from which asbestos has been removed.

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Total Cost: The total cost is the sum of the cost estimated for removal of the asbestos-containing materials and the cost of replacement of this material with nonasbestos products of equivalent or greater quality. Estimates are based on average unit values for the type of material and, in general, experience in estimating the cost of asbestos abatement projects. Other variables which contribute to the cost factors are accessibility to the material, building use and occupancy, total size of the project, ceiling height, number of floors in the buildings, HVAC system, etc. The unit prices used in this estimate are based on projects in the client's geographical location. A subtotal appears for each exposure area. At the end of the column, the base abatement cost is totaled for that building. Engineering, air monitoring and other related costs are not included in the base abatement cost which appears on the spreadsheets.

Area Average % Asbestos: An average percentage of asbestos determined in the total amount of suspect materials identified within an area.

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IX. SYNOPSIS OF ANTICIPATED ABATEMENT COST

The spreadsheets included in this report contain a breakdown of the budgetary cost estimates for each material, a total for each area, a subtotal for each building, and finally, a grand total for removal of all asbestos-containing materials and replacement with nonasbestos-containing materials of equivalent or better quality.

The estimated abatement cost is budgetary in nature, since there are many variables which will affect the final construction estimate. Once it has been decided which materials to address, either totally or in a phased fashion, a final estimated construction cost may be determined based on variables such as time frame for construction, type of replacement material chosen, occupancy during abatement, and size of project chosen. All budgetary estimates are based on removal and replacement with nonasbestos-containing material. This option has been chosen because it usually represents the maximum expenditure, in the short run, that the owner would be making, as opposed to other temporary forms of abatement such as encapsulation or enclosure. Encapsulation is a temporary measure which will seal and, therefore, retard fiber release for only a limited period of time. However, the materials remain in the building and must be monitored periodically under an operations and maintenance program. If, however, the study identifies selected areas which we would recommend be encapsulated, enclosed, rewrapped or otherwise temporarily enclosed, these are so noted in the specific comments and recommendations. There are no standard cost-estimating guidelines that can be used in this report to establish those estimates since there are numerous variables that affect the final cost.

When attempting to provide a synopsis of the various options available in making an abatement decision, only general options or alternatives can be addressed since there are many combinations of areas and materials which could be used in any one abatement project. Historically, most building owners have chosen one of two types of projects:

1. Removal and Replacement of All Asbestos-Containing Materials: This option is the most costly in the short run and may be the most difficult to pursue, considering the possible magnitude of the project, the associated funds which must be appropriated, and the difficulty of moving building occupants to allow for abatement of all materials in one project. However, this option will eliminate the asbestos exposure potential and any problems associated with the presence of asbestos-containing materials.

2. A Phased Abatement Program by Priority: In most cases, the most prudent decision is to remove the asbestos-containing materials on a phased basis, beginning with all of the Priority Level I materials or a combination of the Priority Level I and Priority Level II materials. This option allows the client to expend the first funds on those areas which present the most severe exposure potential. Exposure from any asbestos-containing material which remains is controlled under an operations and maintenance program until such time as those materials can be removed. In many cases, building owners will actually gear a phased abatement program to the priority level so that Priority Level I materials are slated for removal the first year, Priority Level II materials will be addressed in the second year or second phase, Priority Level III materials in the third year or third phase, and so on.

Professional Fees and Other Expenses

In general building construction, the architect's estimate is used as a base figure, with contingency fees for unexpected bid fluctuations, last minute owner-requested change orders, etc. added to determine a total project cost figure. An asbestos project is no different; therefore, a 5 to 15% contingency should be added depending on the size of the project.

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Professional fees must also be considered in the total project scope, since almost all abatement projects today must be designed and managed by a professional engineering or consulting firm specializing in this unique area. The fees for designing the project, developing the plans and specifications, conducting all the necessary prebid and preconstruction conferences, providing contract administration, supervision and final clearance of the project are usually based either on a percent of the total construction cost (with the percentage dropping as the total cost of construction increases) or on a lump sum or "not to exceed" basis. The professional fees for managing and designing the project and ensuring it is being carried out under stringent, safe conditions could range from 5 to 8% for projects over one-quarter of a million dollars in construction estimate, to as high as 10 to 17% for much smaller projects. The fees are always exclusive of reimbursable expenses and travel-related costs.

On-site air monitoring and construction supervision is absolutely vital during an asbestos abatement project. Unlike the general construction project in which the architect or engineer checks on the job from time to time, the unregulated nature of the abatement industry requires constant vigilance to ensure that the contractor is complying with all aspects of the specifications, that the procedures are followed to the letter, and that sophisticated monitoring of not only the air inside the work area but also the air outside the work area and inside the building is carried out to be sure that asbestos fiber levels do not exceed safe levels. In addition, the air monitoring records provide the owner with solid information as to the ongoing safety of the project and can be used in a public relations program, since tenants or other building occupants are concerned about the "healthfulness" of their spaces after an asbestos abatement project has been completed. The fees for an on-site air monitoring crew and an on-site laboratory for rapid analysis of these critical barrier and final clearance samples are either charged on a per shift basis or as a percent of the total construction cost, depending on the size of the project. They are usually separate from the architectural/engineering fees but may in some instances be combined into one contract with the architectural/engineering portion of the project. Regardless of the abatement alternative chosen, the cost for air monitoring, along with construction supervision and management, will be approximately two (2) percentage points higher than the architectural/engineering fees.

As a general rule of thumb, it can be estimated that the associated architectural/engineering fees, air monitoring fees, reimbursable expenses, etc., will run approximately 15 to 17% of the construction cost for larger projects and could be as high as 20 to 25% of the construction cost for smaller projects.

In addition to professional fees during the actual project, there are other fees that may be associated with the asbestos abatement program. These include:

1. The cost of the asbestos assessment survey.

2. The cost to develop and maintain an operations and maintenance program to monitor asbestos-containing materials remaining in the building system.

3. The cost of relocation, in some instances, of employees and other building occupants during asbestos abatement.

4. Down time in productivity for personnel administering the asbestos abatement program.

5. Litigation assistance cost if a cost recovery law suit is planned to recover the cost of asbestos abatement from the manufacturers.

6. Other internal costs related to the program.

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The following page includes cost estimate information for abatement of asbestos-containing materials in JFK Airport by individual building. These estimates include base construction costs, architectural/engineering, air monitoring, and reimbursable fees.

1. The unit costs provided take into account the degree of difficulty in accessing the spaces involved for the overall facility. If the facility is broken down into projects of $250,000 or less some modification should be used. The following are examples of those modifications:

   A. Pipes or spray-applied material 15' to 25' above floor, increase cost by a factor of 1.15.

   B. Pipes or spray-applied material 25' to 60' above the floor, increase cost by a factor of 2.35.

   C. Pipes in tunnels or other confined space, increase cost by a factor of 1.50.

   D. Removal in occupied areas, increase cost by a factor of 1.1.

   E. Staging of project where the contractor will be shut down for several weeks while areas are vacated or reoccupied, increase cost by a factor of 1.25.

2. Operational aspects of the facilities cannot be determined until the actual abatement design is started. Note item E above which, addresses staging of projects.

3. The cost of replacement materials are determined by the same method as removal cost.

4. Since unit costs are developed from projects in the New York area, labor costs will reflect the average labor rate in the area.

5. Architectural/Engineering design fees for development of abatement are based on a percent of the construction cost. This percentage ranges from 6 to 22% depending on the size of the project.

6. Air monitoring fees are based on $490 per eight-hour shift. The number of shifts is determined by the size of the project. The $490 per eight-hour shift does not include any transportation or per diem costs.

7. The contingencies used are based on job size and site specific rationale as determined by the inspector.

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BUILDING NUMBER/NAME	TOTAL CONST. WITH CONTINGENCY	ARCHITECTURAL/ ENGINEERING FEES	AIR MONITORING FEES	REIM-BURSABLES	BUILDING TOTAL
1/Northwest Hangar 1	1,547,931	114,843	145,530	30,958	1,839,262
2/Northwest Hangar 2	1,482,380	105,576	135,240	29,648	1,752,844
3/Flying Tigers Hangar	399,566	30,767	38,710	7,991	477,034
4/United Airlines Hangar	39,344	6,295	6,860	787	53,286
5/Air Express International Hangar	54,802	7,398	8,330	1,096	71,626
6-6a/Flying Tigers Cargo Hangar	486,696	44,733	54,880	9,734	596,043
7/Alitalia/Varig Hangar	1,873,128	130,973	168,560	37,463	2,210,124
8/United Airlines Hangar 8	1,510,154	114,386	144,550	30,203	1,799,293
9/Eastern Airlines Hangar 9	769,431	64,368	79,870	15,112	928,781
10/American Airlines Hangar 10	6,562,186	430,527	562,030	131,244	7,685,987
11/Federal Aviation Administration Hangar	1,130,334	91,379	114,170	22,607	1,358,490
12/TWA Maintenance Hangar	1,602,798	104,182	136,220	32,056	1,875,256
14/Pan Am Airlines Hangar 14	7,892,099	517,893	675,710	157,842	9,243,544
15/Swissair Hangar	1,098,103	80,551	102,410	21,962	1,303,026
16/Pan Am Airlines Hangar 16	945,603	75,971	95,060	18,912	1,135,546
17/Pan Am Airlines Hangar 17	600,199	57,555	69,580	12,005	739,339
19/Pan Am Airlines Hangar 19	2,569,748	178,474	229,810	51,395	3,029,427
48/Gas Valve House	22,560	6,000	6,860	451	35,871
49/Central Heating and Refrigeration Plant	1,643,583	106,833	139,650	32,872	1,922,938
50/International Arrivals Building	16,879,071	1,097,140	1,434,720	337,581	19,748,512
53/Pan Am Airlines Unit Terminal	46,041,827	2,992,719	3,913,630	920,837	53,869,013
54/Northwest Airlines Unit Terminal	9,889,014	642,786	840,350	197,780	11,569,930
55/Eastern Airlines Unit Terminal	6,508,126	423,028	553,210	130,163	7,614,527
56/United Airlines Unit Terminal	10,336,108	681,238	878,570	206,722	12,093,248
57/American Airlines Unit Terminal	9,713,062	631,349	825,650	194,261	11,364,322
58/TWA Domestic Unit Terminal	2,560,213	166,414	216,090	51,204	2,993,921
59/British Airways Unit Terminal	5,925,367	385,149	503,720	118,507,	6,932,743
60/TWA International Unit Terminal	4,834,243	314,226	411,110	96,985	5,656,264
61/Water Chiller Tower	120,083	12,369	14,700	2,402	149,554
62/Water Chiller Tower	76,625	9,195	10,780	1,533	98,133
63/Water Chiller Tower	82,914	9,618	11,270	1,658	105,460
66/British Airways Unit Cargo Building	1,048,778	83,311	104,370	20,975	1,257,434
67/Pan Am Airlines Unit Cargo Building	4,481,941	298,769	388,570	89,639	5,258,919
68/Cargo Service Building	18,694	6,000	6,860	356	31,910
72/Citibank Building	49,070	7,017	7,840	981	64,908

- The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

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BUILDING NUMBER/NAME	TOTAL CONST. WITH CONTINGENCY	ARCHITECTURAL/ ENGINEERING FEES	AIR MONITORING FEES	REIM-BURSABLES	BUILDING TOTAL
80/Cargo Service Building	318,061	25,445	31,850	6,361	381,717
81/Cargo Building	298,807	24,203	30,380	5,976	359,366
82/Cargo Building	448,448	33,634	42,630	8,969	533,681
83/Air France Cargo Building	2,147,938	148,102	191,100	42,959	2,530,099
84/Cargo Building	89,858	14,556	16,660	1,797	122,871
86/Cargo Building	618,189	48,415	60,760	12,254	739,618
87/KLM-AER Lingus Cargo Building	170,444	19,594	23,030	3,409	216,477
88-88a/Hudson General Cargo Building	172,142	27,230	31,360	3,444	234,176
89/Triangle Aviation Cargo Building	54,794	7,507	8,820	1,096	72,217
90/Allied Fuel Distribution Maintenance Garage	68,829	8,535	9,800	1,377	88,541
93/Eastern Airlines Storage Building	7,191*				
94/TWA Hangar 12/ Flammable Storage Building	12,999*				
95/TWA Hangar 12/Commissary	697,704	63,779	78,400	13,955	853,838
96/TWA Hangar 12/ Maintenance Garage	173,546	19,278	22,540	3,301	218,665
106/Port Authority Survey Group Storehouse	35,422	6,021	6,860	708	49,011
110/Airline Services Building	156,063	22,456	25,970	3,121	207,610
111/Fitzgerald Federal Building	4,550,114	309,980	400,820	91,002	5,351,916
113/Fuel Farm Accounting Office	8,778*				
114/Fuel Farm Toolhouse	2,633*				
122/American Airlines Flight Kitchen	262,358	21,513	26,950	5,247	316,068
123/American Airlines Cargo Building	176,237	19,964	23,520	3,525	223,246
124/New York Telephone Building	5,882*				
125/Allied Aviation Building	77,056	9,170	10,780	1,541	98,547
127/West Center Lean-to/Hangars 3 and 4	897,211	70,924	88,690	17,871	1,074,696
128/East Center Lean-to/Hangars 4 and 5	126,016	12,980	15,680	2,520	157,196
133/United Airlines Pump House 74	8,482*				
134/Amoco Gas Station/Site 1	**				
139/Marriott Commissary	403,474	36,003	44,100	8,070	491,647
140/Jamaica Oil Company Building	47,175	6,840	7,840	944	62,799
141/Port Authority Administration Building	260,712	21,639	26,950	5,214	314,515
142/Allied Aviation Maintenance Shops	341,535	30,579	37,730	6,830	416,674
143/Marriott Commissary	281,892	22,833	28,420	5,638	338,783
144/International Hotel	1,863,851	133,209	170,520	37,277	2,204,857

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

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BUILDING NUMBER/NAME	TOTAL CONST. WITH CONTINGENCY	ARCHITECTURAL/ ENGINEERING FEES	AIR MONITORING FEES	REIM-BURSABLES	BUILDING TOTAL
146/Aero Enterprises Commissary	1,428,865	108,359	136,710	28,577	1,702,511
147/New York Telephone Company Communications Center	89,864	13,249	15,190	1,699	120,002
150/Servair Garage	15,562	6,000	6,860	311	28,733
155/Control Tower	356,745	27,826	34,790	7,135	426,496
161/Port Authority Fire Pump Station	56,235	12,000	13,720	1,125	83,080
178/Seaboard/Western Office Building Extension Office	1,356,903	96,327	123,480	27,138	1,603,848
179/DHL Corporation Cargo Building	346,230	36,183	43,610	6,924	432,947
181/Catholic Church	28,958	6,000	6,860	579	42,397
182/Synagogue	160,160	15,215	18,620	3,203	197,198
183/TWA Commissary	900,374	75,190	95,060	18,008	1,088,632
184/Protestant Chapel	17,612	6,000	6,860	352	30,824
189/ASPCA Animal Shelter	36,960	6,283	6,860	739	50,842
192/West Lean-to/Hangar 3	320,508	29,721	36,260	6,410	392,899
193/East Lean-to/Hangar 5	265,448	21,767	26,950	5,309	319,474
196/Ogden Food Storage Building	10,781*				
197/Lockheed Building	247,385	20,780	25,970	4,948	299,083
198/Medical Office Building	1,580*				
199/Carey Transport Garage	12,722*				
204/National Car Rental Service Center	**				
206/Old Hertz Service Center	8,787*				
207/Avis Service Center	10,556*				
208/Pan Am Airlines Jet Center	8,275,807	547,385	712,950	165,517	9,701,659
209/Pan Am Airlines Utilities Plant	1,478,464	109,897	139,650	29,570	1,757,581
210/Pan Am Airlines Waste Treatment Plant	**				
211/Pan Am Airlines Cooling Towers	108,290	11,695	13,720	2,166	135,871
212/Pan Am Airlines Fuel Tanks	14,221*				
213/Pan Am Airlines Material Center	865,923	62,409	79,870	17,318	1,025,520
214/215/Pan Am Airlines Jet Test Cells	768,598	65,651	80,850	15,372	930,471
238/Storm Water Pump House 3	5,443*				
239/Sanitary Sewer Lift House 1	2,834*				
241/Satellite Foam and Control Building	1,757*				
250/Air Mail Facility	4,236,979	280,144	365,050	84,740	4,966,913
252/Satellite Police Garage	13,571*				
260/Korean Airlines Cargo Building	1,768,123	122,114	157,780	35,362	2,083,379

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

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BUILDING NUMBER/NAME	TOTAL CONST. WITH CONTINGENCY	ARCHITECTURAL/ ENGINEERING FEES	AIR MONITORING FEES	REIM-BURSABLES	BUILDING TOTAL
261/Lufthansa Cargo Building	257,566	21,378	26,460	5,151	310,555
262/Flying Tigers Cargo Warehouse	118,064	12,161	14,700	2,361	147,286
263/SAS/JAL Cargo Building	1,036,974	74,925	95,550	20,710	1,228,150
267/Pan Am Airlines Main Base Guardhouse	12,728*				
269/Police and Aeronautic Service Building	171,979	24,534	28,910	3,439	228,862
296/TWA Unit Terminal Service Station	172,020	19,813	23,520	3,441	218,794
298/Pan Am Airlines Unit Terminal Building B	10,256*				
299/Pan Am Airlines Unit Terminal Building C	6,608*				
308/National Car Rental Office and Service Building	**				
—/Large Fuel Farm	71,130	8,749	10,290	1,423	91,592
—/Satellite Fuel Farm	33,586	6,000	6,860	672	47,118
—/Distribution System	1,928,439	125,349	164,150	38,569	2,256,507

* The total construction costs for this facility were too low to apply minimum design, air monitoring, and reimbursable costs. These costs must be independently negotiated.

** All suspect materials identified in this facility were determined nonasbestos-containing by laboratory analysis.

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X. OPERATIONS AND MAINTENANCE CODES

O & M CODE	MATERIAL REFERENCED	BULK SAMPLE CODES
OMA	Pipe lagging and mud-packed joints	BS - E, F, G, N, O, P, Q
OMB	Insulation on boilers, tanks, breeching, and ducts	BS - H, I, U, T
OMC	Fireproofing	BS - R, C
OMD	Acoustical plasters	BS - A, B, D
OME	Stored insulations/materials	BSY
OMF	Debris	BSX
OMG	Ceiling tiles, panels	BS - K, L, V
OMH	Tape/woven paper	BSJ
OMI	Miscellaneous nonfriable materials	BSZ
OMZ	Other	BS - M, S, W

PA 078658

XI. BUILDING-BY-BUILDING REPORTS

PA 078659

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67	PAN AM AIRLINES UNIT CARGO BUILDING
68	CARGO SERVICE BUILDING
72	CITIBANK BUILDING
80	CARGO SERVICE BUILDING
81	CARGO BUILDING
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83	AIR FRANCE CARGO BUILDING
84	CARGO BUILDING
86	CARGO BUILDING
87	KLM-AER LINGUS CARGO BUILDING
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110	AIRLINE SERVICES BUILDING
111	FITZGERALD FEDERAL BUILDING
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114	FUEL FARM TOOLHOUSE
122	AMERICAN AIRLINES FLIGHT KITCHEN
123	AMERICAN AIRLINES CARGO BUILDING
124	NEW YORK TELEPHONE BUILDING
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127	WEST CENTER LEAN-TO/HANGARS 3 AND 4
128	EAST CENTER LEAN-TO/HANGARS 4 AND 5
133	UNITED AIRLINES PUMP HOUSE 74
134	AMOCO GAS STATION/SITE 1

BUILDING 61
WATER CHILLER TOWER

FINDINGS AND OBSERVATIONS

BUILDING 61 - WATER CHILLER TOWER

This structure is a three-story water chiller tower. It was built in 1963 of corrugated transite-type panelling, Asbesdeck honeycomb transite-type material, wood, and aluminum. The structure has undergone renovation in which a fiberglass extension was added to one end.

Ex. 4

The corrugated transite-type panel exterior walls were in good condition, without damage, at the time of inspection. The Asbesdeck material located within the structure at the ceiling level has some minor collision damage.

The asbestos-containing transite-type materials present on and within this structure should be incorporated into an operations and maintenance program to periodically monitor the material condition and detect any future damage until removal and replacement becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

COST ESTIMATE

BUILDING 61 - WATER CHILLER TOWER

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$109,166
10% Contingency	$10,917
Total Removal/Replacement with Contingency	$120,083

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 10.3% of Total Construction Cost:	
10.3% X $120,083	$12,369
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 30 8-hour shifts:	
30 X $490	$14,700
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $120,083	$2,402
Total Project Estimate Including Professional Fees and Contingency	$149,554

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 061

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
0 -187879	N	Y	70	40	30								30		100
0 -187880	N	Y	60	60									40		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 15

Building Number: 061
Building Name: CHILLER TOWER
JFK AIRPORT
Building Type: CHILLER
Constructed: 1963
Inspected: 04/21/88
Inspector: C. FERGUSON

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TOWER	Wall & Ceiling Areas					AREA AVERAGE % ASB - 65%							
		throughout exterior walls	187879-0	Transite siding/walls	OMZ	7920	sq.ft.		70	21	III	$19,087	$38,095	$57,182
		throughout upper decking	187880-0	honeycomb Transite	OMZ	7200	sq.ft.		60	21	III	$17,352	$34,632	$51,984
											AREA TOTAL	$36,439	$72,727	$109,166

The Transite materials are located throughout the wall areas and below the roof fan units. The wall areas are constructed of corrugated Transite panels. The honeycomb Transite panels are accessed through roof access panels. The panels are lay-in type and easily removed.

TENANT - TOWER	TOTAL	$36,439	$72,727	$109,166
BUILDING TOTAL		$36,439	$72,727	$109,166

PA 078666

BUILDING 62
WATER CHILLER TOWER

FINDINGS AND OBSERVATIONS

BUILDING 62 - WATER CHILLER TOWER

This structure is a three-story water chiller tower. It was built in 1963 of corrugated transite-type paneling, Asbesdeck honeycomb transite-type material, wood, and aluminum.

Ex. 4

The corrugated transite-type panel exterior walls were in good condition, without damage, at the time of inspection. The Asbesdeck material located within the structure at the ceiling level has some minor collision damage.

The asbestos-containing transite-type materials present on and within this structure should be incorporated in an operations and maintenance program to periodically monitor the material condition and detect any future damage until removal and replacement of the material becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078669

COST ESTIMATE

BUILDING 62 - WATER CHILLER TOWER

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$69,659
10% Contingency	$6,966
Total Removal/Replacement with Contingency	$76,625

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 12.0% of Total Construction Cost:

12.0% X $76,625 — $9,195

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 22 8-hour shifts:

22 X $490 — $10,780

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $76,625 — $1,533

Total Project Estimate Including Professional Fees and Contingency — $98,133

PA 078670

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 062

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
0 -187879A	N	Y	70	40	30								30		100
0 -187880A	N	Y	60	60									40		100

PA 078671

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 16

Building Number: 062
Building Name: CHILLER TOWER
JFK AIRPORT
Building Type: CHILLER
Constructed: 1963
Inspected: 04/21/88
Inspector: C. FERGUSON

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TOWER	Wall & Ceiling Areas					AREA AVERAGE % ASB - 65%							
	walls throughout		187879A-0	Transite wall board	OMZ	5760	sq.ft.		70	21	III	$13,882	$27,706	$41,588
	ceiling throughout		187880A-0	Transite wall board	OMZ	3888	sq.ft.		60	21	III	$9,370	$18,701	$28,071
								AREA TOTAL				$23,252	$46,407	$69,659
							TENANT - TOWER	TOTAL				$23,252	$46,407	$69,659
								BUILDING TOTAL				$23,252	$46,407	$69,659

PA 078672

BUILDING 63
WATER CHILLER TOWER

FINDINGS AND OBSERVATIONS

BUILDING 63 - WATER CHILLER TOWER

This structure is a three-story water chiller tower. It was built in 1963 of corrugated transite-type paneling, Asbesdeck honeycomb transite-type material, wood, and aluminum.

Ex. 4 [illegible] The corrugated transite-type panel exterior walls were in good condition without damage at the time of inspection. The Asbesdeck material located within the structure at the ceiling level has some minor collision damage.

The asbestos-containing transite-type materials present on and within this structure should be incorporated in an operations and maintenance program to periodically monitor the material condition and detect any future damage until removal and replacement of the material becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078675

COST ESTIMATE

BUILDING 63 - WATER CHILLER TOWER

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$75,376
10% Contingency	$7,538
Total Removal/Replacement with Contingency	$82,914

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 11.6% of Total Construction Cost:

11.6% X $82,914 — $9,618

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 23 8-hour shifts:

23 X $490 — $11,270

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $82,914 — $1,658

Total Project Estimate Including Professional Fees and Contingency — $105,460

PA 078676

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 063

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
0 -1878798	N	Y	70	40	30								30		100
0 -1878808	N	Y	60	60									40		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 17

Building Number: 063
Building Name: CHILLER TOWER
JFK AIRPORT
Building Type: CHILLER
Constructed: 1963
Inspected: 04/21/88
Inspector: C. FERGUSON

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TOWER	Walls & Ceiling Areas					AREA AVERAGE % ASB - 65%							
	walls throughout		1878798-0	Transite wall board	OMZ	5040	sq.ft.		70	21	III	$12,146	$24,242	$36,388
	ceiling throughout		1878808-0	Honeycomb Transite	OMZ	5400	sq.ft.		60	21	III	$13,014	$25,974	$38,988
									AREA TOTAL			$25,160	$50,216	$75,376
							TENANT - TOWER		TOTAL			$25,160	$50,216	$75,376
								BUILDING TOTAL				$25,160	$50,216	$75,376

PA 078678

BUILDING 66
BRITISH AIRWAYS UNIT CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 66 - BRITISH AIRWAYS UNIT CARGO BUILDING

The British Airways Unit Cargo Building is a concrete block and structural steel warehouse which was originally constructed in 1965. In 1978, a wing was added which British Airways now occupies. The original building areas are now leased to other tenants. Occupants of this building at the time of the survey include Arrow Air, British Air. BWIA, Cargo Development, Fast Air, and Ogden Allied.

Ex. 4

Building materials confirmed by laboratory analysis to contain asbestos include vinyl floor tiles, spray-applied fireproofing, mudded joint packing on fiberglass-insulated piping systems, breeching insulation, and tank insulation.

Asbestos-containing spray-applied fireproofing was observed on the lower ceiling of the British Airways cargo area along the south wall. The material had minor contact and water damage with some debris visible on the structural steel. The area is classified as Priority Level I, and it is recommended that the material be removed as soon as possible.

Asbestos-containing spray-applied fireproofing was also observed on structural steel above the British Airways second floor drop ceilings. The material had minor contact damage and a lower accessibility then the previous material and is classified as Priority Level II. It is recommended that the material be included in an operations and maintenance program until it can be removed during a phased abatement.

Asbestos-containing mudded joint packing on fiberglass-insulated piping, breeching insulation, and tank insulation were observed in the second floor mechanical room. Mudded joint packings were also found in the Ogden Allied cargo area, and vibration joint cloth was found on balcony air handling units. These areas are classified as Priority Level III. It is recommended that the damaged areas be repaired as needed, and that the materials be maintained under an operations and maintenance program until they can be removed.

Priority Level IV areas include mudded joint packing behind the first floor restroom walls, transite-type cooling tower panels, and vinyl asbestos floor tiles as listed in the spreadsheets. The floor tiles and transite-type panels present little health hazard unless sawn, sanded, drilled, or disturbed. It is recommended that all of these materials be maintained under an operations and maintenance program until they can be removed during a phased abatement.

Materials which were sampled but determined nonasbestos-containing include sprayed fireproofing in certain areas of the building, lay-in ceiling panels, some vinyl floor tiles, acoustical ceiling tiles, and some stored insulation.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078681

COST ESTIMATE

BUILDING 66 - BRITISH AIRWAYS UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$180,565
10% Contingency	$18,057
Total Removal/Replacement with Contingency	$198,622

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 9.0% of Total Construction Cost:	
9.0% X $198,622	$17,876
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 45 8-hour shifts:	
45 X $490	$22,050
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $198,622	$3,972
Total Project Estimate Including Professional Fees and Contingency	$242,520

PA 078682

COST ESTIMATE

BUILDING 66 - BRITISH AIRWAYS UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$663,245
10% Contingency	$66,325
Total Removal/Replacement with Contingency	$729,570

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.8% of Total Construction Cost:

6.8% X $729,570 — $49,611

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 131 8-hour shifts:

131 X $490 — $64,190

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $729,570 — $14,591

Total Project Estimate Including Professional Fees and Contingency — $857,962

PA 078682

COST ESTIMATE

BUILDING 66 - BRITISH AIRWAYS UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$39,432
10% Contingency	$3,943
Total Removal/Replacement with Contingency	$43,375

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 15.3% of Total Construction Cost:

15.3% X $43,375	$6,636

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 15 8-hour shifts:

15 X $490	$7,350

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $43,375	$868

Total Project Estimate Including Professional Fees and Contingency	$58,229

PA 078684

COST ESTIMATE

BUILDING 66 - BRITISH AIRWAYS UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$70,192
10% Contingency	$7,019
Total Removal/Replacement with Contingency	$77,211

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 11.9% of Total Construction Cost:

11.9% X $77,211	$9,188

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 22 8-hour shifts:

22 X $490	$10,780

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $77,211	$1,544

Total Project Estimate Including Professional Fees and Contingency	$98,723

PA 078685

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 066

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -221241	Y	N	0								30		30	40 GM	100
1 -221242	Y	N	0								35		25	40 GM	100
1 -221243	Y	N	0								30		25	45 GM	100
1 -221244	Y	N	0								25		30	45 GM	100
1 -221245	Y	N	0								25		30	45 GM	100
2 -221246	Y	Y	10	10							35		55		100
2 -221247	Y	Y	2	2							40		58		100
2 -221248	Y	Y	5	5							40		55		100
2 -221249	Y	Y	10	10							45		45		100
2 -221250	Y	Y	5	5							40		55		100
2 -221251	Y	Y	2	2							40		58		100
2 -221252	Y	Y	10	10							45		45		100
0 -221253	N	N	0										10	90 GM	100
0 -221254	N	N	0						80				20		100
0 -221255	N	N	0										20	80 GM	100
0 -221256	N	N	0						20	45		25	10		100
0 -221257	N	N	0										20	80 GM	100
0 -221258	N	Y	70	70						20			10		100
0 -221259	N	N	0						85				15		100
3 -221260	Y	Y	5	5							40		55		100
3 -221261	Y	Y	10	10							45		45		100
3 -221262	Y	Y	8	8							40		52		100
3 -221263	Y	Y	5	5							50		45		100
3 -221264	Y	Y	10	10							45		45		100
3 -221265	Y	Y	8	8							45		47		100
3 -221266	Y	Y	10	10							40		50		100
3 -221267	Y	Y	10	10							45		45		100
3 -221268	Y	Y	5	5							50		45		100
0 -221269	N	N	0						50	40			10		100
0 -221270	N	Y	6	6									14	80 CAL	100
4 -221271	Y	Y	30	30					20				50		100
4 -221272	Y	Y	35	35					20				45		100
4 -221273	Y	Y	40	40					20				40		100
5 -221274	Y	Y	30	30									30	40 GM	100
5 -221275	Y	Y	40	40									30	30 GM	100
5 -221276	Y	Y	35	35									35	30 GM	100
6 -221277	Y	Y	20	20						30			50		100
6 -221278	Y	Y	20	20						20			60		100
6 -221279	Y	Y	25	25									75		100
7 -221280	Y	Y	30	30									40	30 GM	100
7 -221281	Y	Y	25	25									45	30 GM	100
7 -221282	Y	Y	30	30									35	35 GM	100
8 -221283	N	Y	25	5	20								75		100
8 -221284	N	Y	10	10					40				50		100
8 -221285	N	Y	10	10					50				40		100
0 -221286	N	N	0						30	40		20	10		100
0 -221287	N	Y	6	6									10	84 GM	100
0 -221288	N	N	0						30	40		20	10		100
0 -221289	N	Y	2	2									20	78 GM	100
0 -221290	N	Y	2	2									10	88 GM	100
0 -221291	N	Y	6	6									10	84 GM	100
0 -221292	N	N	0										10	90 GM	100
0 -221293	N	N	0										10	90 GM	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066 Page 1
Building Name: BRITISH AIR UNIT CARGO
JFK AIRPORT
Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	ARROW AIR	2nd Floor-South Wing-Floor					AREA AVERAGE % ASB -		2%					
	underneath carpet-throughout		221289-0	vinyl floor tile	OMZ	500	sq.ft.		2	4	IV	$2,270	$1,720	$3,990
	This material is in good condition. The material is under carpeting so it could not be thoroughly inspected.								AREA TOTAL			$2,270	$1,720	$3,990
							TENANT - ARROW AIR		TOTAL			$2,270	$1,720	$3,990

PA 078687

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066
Building Name: BRITISH AIR UNIT CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	BRITISH AIR	Cargo Area					AREA AVERAGE % ASB -		0%					
	north & south walls-two lower tiers		221241-1	fireproofing	OMC	1200	sq.ft.		0					
			221242-1	fireproofing	OMC				0					
			221243-1	fireproofing	OMC				0					
			221244-1	fireproofing	OMC				0					
			221245-1	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
03	BRITISH AIR	Cargo Area					AREA AVERAGE % ASB -		0%					
	upper half of north & south walls		221241-1	fireproofing	OMC	1200	sq.ft.		0					
			221242-1	fireproofing	OMC				0					
			221243-1	fireproofing	OMC				0					
			221244-1	fireproofing	OMC				0					
			221245-1	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
04	BRITISH AIR	Cargo Area-Lower Ceiling					AREA AVERAGE % ASB -		6%					
	south wall underneath 2nd floor		221246-2	fireproofing	OMC	6700	sq.ft.		10	78	I	$146,261	$34,304	$180,565
			221247-2	fireproofing	OMC				2	78	I			
			221248-2	fireproofing	OMC				5	78	I			
			221249-2	fireproofing	OMC				10	78	I			
			221250-2	fireproofing	OMC				5	78	I			
			221251-2	fireproofing	OMC				2	78	I			
			221252-2	fireproofing	OMC				10	78	I			
									AREA TOTAL			$146,261	$34,304	$180,565

This material is in fair condition. The material has minor contact and water damage. The material's cohesiveness is only fair and there is debris on the steel I-beams. This debris should be cleaned up and the material encapsulated.

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066
Building Name: BRITISH AIR UNIT CARGO
JFK AIRPORT
Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
05	BRITISH AIR	Cargo Area-Locker Room & West Stairwell					AREA AVERAGE % ASB -		0%					
	throughout		221257-0	vinyl floor tile	OMZ	700	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
06	BRITISH AIR	Cargo Area-East Blockhouse-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		221256-0	drop or lay-in panel	OMG	200	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
07	BRITISH AIR	Cargo Area-East Blockhouse-Floor					AREA AVERAGE % ASB -		0%					
	throughout		221255-0	vinyl floor tile	OMZ	200	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
08	BRITISH AIR	Cargo Area-West Blockhouse-Floor					AREA AVERAGE % ASB -		0%					
	break room-entrance-north end		221253-0	vinyl floor tile	OMZ	2800	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
09	BRITISH AIR	Cargo Area-West Blockhouse-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		221254-0	acoustical tile	OMG	6000	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
10	BRITISH AIR	2nd Floor-S Wing-Mechanical Rm-Storage					AREA AVERAGE % ASB -		0%					

PA 078689

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		north wall-inside doorway	221286-0	stored insulation/material	OME	16	cu.ft.		0					
									AREA TOTAL			$0	$0	$0
11	BRITISH AIR	2nd Floor-Ceiling						AREA AVERAGE % ASB -	8%					
		throughout	221260-3	fireproofing	OMC	15500	sq.ft.		5	42	II	$559,705	$103,540	$663,245
			221261-3	fireproofing	OMC				10	42	II			
			221262-3	fireproofing	OMC				8	42	II			
			221263-3	fireproofing	OMC				5	42	II			
			221264-3	fireproofing	OMC				10	42	II			
			221265-3	fireproofing	OMC				8	42	II			
			221266-3	fireproofing	OMC				10	42	II			
			221267-3	fireproofing	OMC				10	42	II			
			221268-3	fireproofing	OMC				5	42	II			
		This material is sprayed-on the steel roof and the steel I-beams throughout the second floor. The material is above a suspended ceiling. This material is in good condition with minor contact and water damage.							AREA TOTAL			$559,705	$103,540	$663,245
12	BRITISH AIR	2nd Floor-Floor						AREA AVERAGE % ASB -	6%					
		hallway and storage room	221270-0	vinyl floor tile	OMZ	2600	sq.ft.		6	6	IV	$11,804	$8,944	$20,748
		This material is in good condition. The material is not water damaged and the contact damage is minor. This area is frequently accessed.							AREA TOTAL			$11,804	$8,944	$20,748
13	BRITISH AIR	2nd Floor						AREA AVERAGE % ASB -	0%					
		throughout	221269-0	acoustical tile	OMG	10500	sq.ft.		0					
									AREA TOTAL			$0	$0	$0

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
14	BRITISH AIR	Cargo Area-Balcony					AREA AVERAGE % ASB - 0%							
	on floor-near storage room		221259-0	stored acoustical tile	OMZ	30	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
15	BRITISH AIR	Balcony & 2nd Floor Roof					AREA AVERAGE % ASB - 70%							
	air handling units		221258-0	vibration joint cloth	OMZ	12	sq.ft.		70	30	III	$215	$116	$331
	This material is in very good condition. The contact and water damage to this material is minimal.								AREA TOTAL			$215	$116	$331
16	BRITISH AIR	2nd Floor-South Wing-Mechanical Room					AREA AVERAGE % ASB - 28%							
	throughout		221274-5	mjp on non-suspect pipe cover	OMA	120	4 in. O.D.	CHW/R	30	27	III	$4,536	$2,520	$7,056
			221275-5	mjp on non-suspect pipe cover	OMA				40	27	III			
			221276-5	mjp on non-suspect pipe cover	OMA				35	27	III			
	throughout		221277-6	mjp on non-suspect pipe cover	OMA	250	4 in. O.D.	DW	20	27	III	$9,450	$5,250	$14,700
			221278-6	mjp on non-suspect pipe cover	OMA				20	27	III			
			221279-6	mjp on non-suspect pipe cover	OMA				25	27	III			
	center of room on north wall		221280-7	mjp on non-suspect pipe cover	OMA	35	4 in. O.D.	LPS	30	27	III	$1,323	$735	$2,058
			221281-7	mjp on non-suspect pipe cover	OMA				25	27	III			
			221282-7	mjp on non-suspect pipe cover	OMA				30	27	III			
	This material is in fair condition. The material has sustained damage and is beginning to degrade and crumble. There is some debris from the material.								AREA TOTAL			$15,309	$8,505	$23,814
17	BRITISH AIR	2nd Floor-South Wing-Mechanical Room					AREA AVERAGE % ASB - 15%							
	breecher		221283-8	breecher/exhaust stack packing	OMB	60	sq.ft.		25	27	III	$3,424	$2,759	$6,183
			221284-8	breecher/exhaust stack packing	OMB				10	27	III			
			221285-8	breecher/exhaust stack packing	OMB				10	27	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in fair condition. Close to the furnace the material is water damaged and is delaminating. This should be repaired as soon as possible.							AREA TOTAL			$3,424	$2,759	$6,183
18	BRITISH AIR	2nd Floor-South Wing-Mechanical Room					AREA AVERAGE % ASB - 35%							
		hot water tank	221271-4	boiler/tank insulation	OMB	75 sq.ft.			30	25	III	$3,586	$2,872	$6,458
			221272-4	boiler/tank insulation	OMB				35	25	III			
			221273-4	boiler/tank insulation	OMB				40	25	III			
		This material is in good condition. The outside covering is intact, but in places it has become soft from water damage. The material underneath the covering is still in good condition.							AREA TOTAL			$3,586	$2,872	$6,458
19	BRITISH AIR	2nd Floor-South Wing-Floor-Catering NA					AREA AVERAGE % ASB - 2%							
		underneath carpeting-throughout	221289-0	vinyl floor tile	OMZ	600 sq.ft.			2	4	IV	$2,724	$2,064	$4,788
		This material is in good condition. The material is underneath carpeting so it could not be thoroughly inspected.							AREA TOTAL			$2,724	$2,064	$4,788
							TENANT - BRITISH AIR		TOTAL			$743,028	$163,104	$906,132

PA 078692

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066 Page 7
Building Name: BRITISH AIR UNIT CARGO
JFK AIRPORT
Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
20	BWIA	2nd Floor-South Wing-Floor					AREA AVERAGE % ASB -		2%					
		underneath carpet-throughout	221289-0	vinyl floor tile	OMZ	400	sq.ft.		2	4	IV	$1,816	$1,376	$3,192
		This material is in good condition. The material is under carpeting so it could not be thoroughly inspected.							AREA TOTAL			$1,816	$1,376	$3,192
							TENANT - BWIA		TOTAL			$1,816	$1,376	$3,192

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066
Building Name: BRITISH AIR UNIT CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
21	CARGO DEVELOPMNT	2nd Floor-South Wing-Floor					AREA AVERAGE % ASB -		2%					
		underneath carpet-throughout	221289-0	vinyl floor tile	OMZ	1200	sq.ft.		2	4	IV	$5,448	$4,128	$9,576
		This material appears to be in good condition. The material is underneath carpeting so it could not be thoroughly inspected.							AREA TOTAL			$5,448	$4,128	$9,576
							TENANT - CARGO DEVELOPMN TOTAL					$5,448	$4,128	$9,576

PA 078694

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066
Building Name: BRITISH AIR UNIT CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
22	FAST AIR	2nd Floor-South Wing-Floor					AREA AVERAGE % ASB -		2%					
		underneath carpet-throughout	221289-0	vinyl floor tile	OMZ	1200	sq.ft.		2	4	IV	$5,448	$4,128	$9,576
		This material is in good condition. The material is underneath carpeting so it could not be thoroughly inspected.							AREA TOTAL			$5,448	$4,128	$9,576
							TENANT - FAST AIR		TOTAL			$5,448	$4,128	$9,576

PA 078695

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	EXP PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
23	OGDEN ALLIED	Cargo Area					AREA AVERAGE % ASB - 35%							
	ceiling-throughout		221274-5	mjp on non-suspect pipe cover	OMA	45	4 in. O.D.	CHW/R	30	23	III	$1,701	$945	$2,646
			221275-5	mjp on non-suspect pipe cover	OMA				40	23	III			
			221276-5	mjp on non-suspect pipe cover	OMA				35	23	III			
	This material is in good condition. The material could not be thoroughly inspected due to its location.								AREA TOTAL			$1,701	$945	$2,646
24	OGDEN ALLIED	1st Floor					AREA AVERAGE % ASB - 22%							
	rest room walls		221277-6	mjp on non-suspect pipe cover	OMA	30	4 in. O.D.	DW	20	17	IV	$1,134	$630	$1,764
			221278-6	mjp on non-suspect pipe cover	OMA				20	17	IV			
			221279-6	mjp on non-suspect pipe cover	OMA				25	17	IV			
	This material could not be accessed. The available blueprints are incomplete so the quantities are estimates.								AREA TOTAL			$1,134	$630	$1,764
25	OGDEN ALLIED	1st Floor-South Wing-Floor					AREA AVERAGE % ASB - 2%							
	foyer-throughout		221290-0	vinyl floor tile	OMZ	200	sq.ft.		2	6	IV	$908	$688	$1,596
	stairwell landing-throughout		221291-0	vinyl floor tile	OMZ	50	sq.ft.		6	6	IV	$227	$172	$399
	blockhouse & office-throughout		221292-0	vinyl floor tile	OMZ	1600	sq.ft.		0					
	locker room-throughout		221293-0	vinyl floor tile	OMZ	200	sq.ft.		0					
	The material is well worn but in good condition. This area is frequently accessed.								AREA TOTAL			$1,135	$860	$1,995
26	OGDEN ALLIED	2nd Floor-South Wing-Ceiling					AREA AVERAGE % ASB - 0%							
	foyer & rest rooms-throughout		221288-0	drop or lay-in panel	OMG	550	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
27	OGDEN ALLIED	2nd Floor					AREA AVERAGE % ASB - 6%							

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

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Building Type: CARGO
Constructed: 1965
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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		outside rest room-throughout	221287-0	vinyl floor tile	OMZ	125	sq.ft.		6	7	IV	$567	$430	$997
		The material is in poor condition. The material is worn and there is some water damage. This area is frequently accessed.							AREA TOTAL			$567	$430	$997
28	OGDEN ALLIED	2nd Floor-South Wing-Floor					AREA AVERAGE % ASB - 2%							
		underneath carpet in office & hallway	221289-0	vinyl floor tile	OMZ	1700	sq.ft.		2	4	IV	$7,718	$5,848	$13,566
		This material is in good condition. The material is underneath carpeting so it could not be thoroughly inspected.							AREA TOTAL			$7,718	$5,848	$13,566
							TENANT - OGDEN ALLIED		TOTAL			$12,255	$8,713	$20,968
									BUILDING TOTAL			$770,265	$183,169	$953,434

PA 078697

BUILDING 67
PAN AM AIRLINES UNIT CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 67 - PAN AM UNIT CARGO BUILDING

Pan Am Unit Cargo Building 67, which was originally constructed in 1966, is a two-story, concrete block and steel beam structure with a connecting four-story annex building. Most of the structure is used as warehouse space. The annex and a small area of the warehouse contain offices. The roof consists of built-up tar and gravel.

The building is heated with hot water forced-air and cooled with chilled water. Tenants in this building include Pan Am, Saudi Air, Air Afrique, J. A. T., and Eastern Airlines.

Ex. 4

Building materials confirmed by laboratory analysis to contain asbestos include vinyl floor tiles, lay-in ceiling panels, vibration joint cloth, sprayed fireproofing, gasket material, mudded joint packing on fiberglass-insulated piping systems, tank insulation, corrugated pipe insulation, breeching, and honeycomb transite-type material on the chiller tower.

Asbestos-containing spray-applied fireproofing was present in the second and third floor office areas; and on the ground, second, third, and fourth floors in the annex. The material was located mostly above drop ceilings and is very friable. These areas are classified as Priority Level I. Due to the accessibility and condition of the material, it is recommended that the fireproofing be abated using gross removal procedures as soon as funding becomes available.

Asbestos-containing corrugated pipe insulation was observed above the drop ceiling in Room S-229 in the annex. The material was in fair condition, but had a high asbestos content. The area is classified as Priority Level II. Hall-Kimbrell recommends the pipe insulation material be removed in conjunction with the fireproofing as a cost-saving measure.

Asbestos-containing lay-in ceiling panels were found in the first floor customer service area. Vibration joint cloth was found in the second floor air handler room and third floor boiler room. Mudded joint packings on nonsuspect pipe insulation, tank insulation, corrugated pipe covering, and breeching materials were found throughout the mechanical areas and roof. These materials were in fair condition, with isolated areas of contact and water damage. These areas are classified as Priority Level II. It is recommended that the materials be repaired, as needed, and included in an operations and maintenance program until they can be removed during a phased abatement.

Asbestos-containing vinyl floor tiles were observed throughout the office area. These present little health hazard unless sawn, sanded, torn, or altered in any way, causing the release of asbestos fibers. Mudded joint packing on nonsuspect pipe insulation was found above the drop ceilings and in pipe chases throughout the building. These generally had a low accessibility or were completely inaccessible. All these areas are classified as Priority Level IV. It is recommended the materials be maintained under an operations and maintenance program until they can be removed during a phased abatement.

PA 078701

COST ESTIMATE

BUILDING 67 - PAN AM AIRLINES UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$3,505,416
10% Contingency	$350,542
Total Removal/Replacement with Contingency	$3,855,958

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $3,855,958	$250,637

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 669 8-hour shifts:

669 X $490	$327,810

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $3,855,958	$77,119

Total Project Estimate Including Professional Fees and Contingency	$4,511,524

PA 078702

COST ESTIMATE

BUILDING 67 - PAN AM AIRLINES UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$56,817
10% Contingency	$5,682
Total Removal/Replacement with Contingency	$62,499

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 13.0% of Total Construction Cost:	
13.0% X $62,499	$8,125
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 19 8-hour shifts:	
19 X $490	$9,310
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $62,499	$1,250
Total Project Estimate Including Professional Fees and Contingency	$81,184

COST ESTIMATE

BUILDING 67 - PAN AM AIRLINES UNIT CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$512,258
10% Contingency	$51,226
Total Removal/Replacement with Contingency	$563,484

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 7.1% of Total Construction Cost:	
7.1% X $563,484	$40,007
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 105 8-hour shifts:	
105 X $490	$51,450
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $563,484	$11,270
Total Project Estimate Including Professional Fees and Contingency	$666,211

PA 078704

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 067

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251501	Y	Y	40	40					50				10		100
1 -251502	Y	Y	50	50					40				10		100
1 -251503	Y	Y	35	35					55				10		100
1 -251504	Y	Y	45	45					45				10		100
1 -251505	Y	Y	40	40					45				15		100
2 -251506	Y	Y	50	50					40				10		100
2 -251507	Y	Y	45	45					45				10		100
2 -251508	Y	Y	50	50					40				10		100
2 -251509	Y	Y	40	40					40				20		100
2 -251510	Y	Y	50	50					40				10		100
3 -251511	Y	Y	45	45					35				20		100
3 -251512	Y	Y	35	35					55				10		100
3 -251513	Y	Y	45	45					45				10		100
4 -251514	Y	Y	45	45					45				10		100
4 -251515	Y	Y	30	30					50				20		100
4 -251516	Y	Y	45	45					30				25		100
0 -251517	N	Y	10	10									20	70 CAL	100
0 -251518	N	Y	11	11									29	60 CAL	100
0 -251519	N	Y	8	8									27	65 CAL	100
0 -251520	N	Y	10	10									25	65 CAL	100
5 -251521	Y	Y	40	40					50				10		100
5 -251522	Y	Y	35	35					55				10		100
5 -251523	Y	Y	35	35					55				10		100
5 -251524	Y	Y	45	45					50				5		100
5 -251525	Y	Y	35	35					55				10		100
5 -251526	Y	Y	40	40					50				10		100
5 -251527	Y	Y	40	40					50				10		100
5 -251528	Y	Y	40	40					50				10		100
5 -251529	Y	Y	35	35					55				10		100
0 -251530	N	N	0						85				15		100
0 -251531	N	Y	10	10						10			40	40 CAL	100
6 -251532	Y	Y	40	40					50				10		100
6 -251533	Y	Y	40	40					55				5		100
6 -251534	Y	Y	35	35					55				10		100
6 -251535	Y	Y	40	40					50				10		100
6 -251536	Y	Y	35	35					55				10		100
6 -251537	Y	Y	35	35					55				10		100
6 -251538	Y	Y	30	30					60				10		100
6 -251539	Y	Y	40	40					50				10		100
6 -251540	Y	Y	35	35					55				10		100
0 -251541	N	Y	7	7									23	70 CAL	100
0 -251542	N	Y	8	8									27	65 CAL	100
7 -251543	Y	Y	50	50					40				10		100
7 -251544	Y	Y	55	55					35				10		100
7 -251545	Y	Y	45	45					40				15		100
8 -251546	Y	Y	60	60					30				10		100
8 -251547	Y	Y	50	50					35				15		100
8 -251548	Y	Y	55	55					35				10		100
9 -251549	Y	Y	40	40									60		100
9 -251550	Y	Y	35	35									65		100
9 -251551	Y	Y	45	45									55		100
0 -251552	N	Y	50	50						40			10		100
0 -251553	N	N	0										40	60 TAR	100
10 -251554	Y	N	0							95			5		100
10 -251555	Y	N	0							95			5		100
10 -251556	Y	N	0							95			5		100
11 -251557	Y	Y	50	50					40				10		100
11 -251558	Y	Y	55	55					40				5		100
11 -251559	Y	Y	50	50					40				10		100
12 -251560	Y	Y	55	55					35				10		100
12 -251561	Y	Y	60	60					35				5		100
12 -251562	Y	Y	50	50					35				15		100
13 -251563	Y	Y	45	45					40				15		100
13 -251564	Y	Y	50	50					40				10		100
13 -251565	Y	Y	50	50					45				5		100
14 -251566	Y	N	0						60				40		100
14 -251567	Y	N	0						65				35		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 067

				ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
14 -251568	Y	N	0						65				35		100
15 -251569	Y	Y	60	60						30			10		100
15 -251570	Y	Y	65	65						25			10		100
15 -251571	Y	Y	60	60						30			10		100
16 -251572	Y	Y	15	15					50				35		100
16 -251573	Y	N	0						60				40		100
16 -251574	Y	N	0						65				35		100
17 -251575	Y	Y	25	25					60				15		100
17 -251576	Y	N	0						65				35		100
17 -251577	Y	N	0						70				30		100
18 -251578	Y	Y	10	10									40	50 TAR	100
18 -251579	Y	Y	15	15									35	50 TAR	100
18 -251580	Y	Y	10	10									40	50 TAR	100
19 -251581	Y	N	0						50				10	40 GM	100
19 -251582	Y	N	0						50				15	35 GM	100
19 -251583	Y	N	0						50				10	40 GM	100
0 -251584	N	Y	60	60									40		100
20 -251585	Y	Y	10	10									35	55 TAR	100
20 -251586	Y	Y	10	10									40	50 TAR	100
20 -251587	Y	Y	10	10									40	50 TAR	100
21 -251588	Y	N	0						50				50		100
21 -251589	Y	N	0						45				55		100
21 -251590	Y	N	0						50				50		100
22 -251591	Y	N	0						60				30	10 GM	100
22 -251592	Y	N	0						60				30	10 GM	100
22 -251593	Y	N	0						55				30	15 GM	100
23 -251594	Y	N	0						60				30	10 GM	100
23 -251595	Y	N	0						65				25	10 GM	100
23 -251596	Y	N	0						60				30	10 GM	100
24 -251597	Y	N	0						55				35	10 GM	100
24 -251598	Y	N	0						60				30	10 GM	100
24 -251599	Y	N	0						60				30	10 GM	100
0 -251600	N	Y	95	95									5		100
25 -251701	Y	Y	80	80						10			10		100
25 -251702	Y	Y	85	85						5			10		100
25 -251703	Y	Y	35	35						55			10		100
26 -251704	Y	Y	40	40					30				30		100
26 -251705	Y	Y	40	40					25				35		100
26 -251706	Y	Y	20	20					40				40		100
26 -251707	Y	Y	35	35					40				25		100
26 -251708	Y	Y	35	35					55				10		100
26 -251709	Y	Y	30	30					40				30		100
26 -251710	Y	Y	25	25					45				30		100
26 -251711	Y	Y	30	30					45				25		100
26 -251712	Y	Y	35	35					45				20		100
27 -251713	Y	N	0						30				70		100
27 -251714	Y	N	0						35				65		100
27 -251715	Y	N	0						30	5			65		100
28 -251716	Y	N	0						30				70		100
28 -251717	Y	N	0						25				75		100
28 -251718	Y	N	0						30				70		100
29 -251719	Y	N	0							80			20		100
29 -251720	Y	N	0							80			20		100
29 -251721	Y	N	0							85			15		100
30 -251722	Y	N	0						30				70		100
30 -251723	Y	N	0						40				60		100
30 -251724	Y	N	0						35				65		100
31 -251725	Y	Y	30	30							20		50		100
31 -251726	Y	Y	35	35							15		50		100
31 -251727	Y	Y	30	30							20		50		100
0 -251728	N	N	0							10			30	60 GM	100
0 -251729	N	Y	10	10									20	70 CA	100
0 -251730	N	Y	2	2					80				18		100
32 -251731	Y	Y	30	30					30				40		100
32 -251732	Y	Y	30	30					35				35		100
32 -251733	Y	Y	35	35					30				35		100
33 -251734	Y	N	0						40	10			50		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 067

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS				OTHER MATERIALS						TOTAL
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	HICA	PER	BINDER	OTHER	
33 -251735	Y	N	0						45				55		100
33 -251736	Y	N	0						45	5			50		100
0 -251737	N	Y	85	85						5			10		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 067

Building Number: 067 Page 1
Building Name: PAN AM UNIT CARGO BLDG.
JFK AIRPORT
Building Type: CARGO
Constructed: 1966
Inspected: 07/15/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	PAN AM CARGO	1st Floor-Lobby-Floor					AREA AVERAGE % ASB -		8%					
	throughout		251542-0	vinyl floor tile	OMZ	3960	sq.ft.		8	6	IV	$17,978	$13,622	$31,600
	The material is located throughout the lobby area.							AREA TOTAL				$17,978	$13,622	$31,600
02	PAN AM CARGO	1st Floor-General Offices-Floors					AREA AVERAGE % ASB -		5%					
	cargo office		251728-0	vinyl floor tile	OMZ	630	sq.ft.		0					
	customer service		251729-0	vinyl floor tile	OMZ	1790	sq.ft.		10	6	IV	$8,127	$6,158	$14,285
	The tiles are in good condition.							AREA TOTAL				$8,127	$6,158	$14,285
03	PAN AM CARGO	1st Fl-General Offces-Customer Service					AREA AVERAGE % ASB -		2%					
	throughout ceiling area		251730-0	drop or lay-in panel	OMG	1500	sq.ft.		2	25	III	$11,340	$4,125	$15,465
	The materials are in fair condition with a small amount of localized water damage.							AREA TOTAL				$11,340	$4,125	$15,465
04	PAN AM CARGO	2nd Floor-General Offices-Floors					AREA AVERAGE % ASB -		10%					
	throughout		251531-0	vinyl floor tile	OMZ	13600	sq.ft.		10	8	IV	$61,744	$46,784	$108,528
	No damage is apparent.							AREA TOTAL				$61,744	$46,784	$108,528
05	PAN AM CARGO	2nd Floor-General Offices-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout ceiling area		251530-0	drop or lay-in panel	OMG	19800	sq.ft.		0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								AREA TOTAL				$0	$0	$0
06	PAN AM CARGO	2nd Fl-General Offices-Air Handler Room					AREA AVERAGE % ASB - 85%							
		duct work connecting	251737-0	vibration joint cloth	OMZ	4	sq.ft.		85	36	III	$72	$39	$111
		The material is in good condition.						AREA TOTAL				$72	$39	$111
07	PAN AM CARGO	2nd Floor-General Offices-Above Ceiling					AREA AVERAGE % ASB - 39%							
		cafeteria I-beams	251521-5	fireproofing	OMC	2280	sq.ft.		40	63	I	$82,331	$15,230	$97,561
		room 2080 training office	251521-5	fireproofing	OMC	1030	sq.ft.		40	63	I	$37,193	$6,880	$44,073
		security office	251521-5	fireproofing	OMC	610	sq.ft.		40	63	I	$22,027	$4,075	$26,102
		maintenance instruction office	251521-5	fireproofing	OMC	700	sq.ft.		40	63	I	$25,277	$4,676	$29,953
		shipping office	251521-5	fireproofing	OMC	1210	sq.ft.		40	63	I	$43,693	$8,083	$51,776
		flight crew scheduling	251521-5	fireproofing	OMC	1290	sq.ft.		40	63	I	$46,582	$8,617	$55,199
		above halls & corridors	251521-5	fireproofing	OMC	3434	sq.ft.		40	63	I	$124,002	$22,939	$146,941
		maintenance instruction room	251521-5	fireproofing	OMC	1600	sq.ft.		40	63	I	$57,776	$10,688	$68,464
		classroom 2E	251521-5	fireproofing	OMC	760	sq.ft.		40	63	I	$27,444	$5,077	$32,521
		I-beams-maintenance classroom	251521-5	fireproofing	OMC	760	sq.ft.		40	63	I	$27,444	$5,077	$32,521
		I-beams maintenance classroom (2D)	251521-5	fireproofing	OMC	750	sq.ft.		40	63	I	$27,083	$5,010	$32,093
		I-beams maint training-audio visual	251521-5	fireproofing	OMC	630	sq.ft.		40	63	I	$22,749	$4,208	$26,957
		rest rooms	251521-5	fireproofing	OMC	410	sq.ft.		40	63	I	$14,805	$2,739	$17,544
		maintenance classroom 2A	251521-5	fireproofing	OMC	980	sq.ft.		40	63	I	$35,388	$6,546	$41,934
		maintenance classroom 2B	251521-5	fireproofing	OMC	980	sq.ft.		40	63	I	$35,388	$6,546	$41,934
			251522-5	fireproofing	OMC				35	63	I			
			251523-5	fireproofing	OMC				35	63	I			
			251524-5	fireproofing	OMC				45	63	I			
			251525-5	fireproofing	OMC				35	63	I			
			251526-5	fireproofing	OMC				40	63	I			
			251527-5	fireproofing	OMC				40	63	I			
			251528-5	fireproofing	OMC				40	63	I			
			251529-5	fireproofing	OMC				35	63	I			

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 067

Building Number: 067
Building Name: PAN AM UNIT CARGO BLDG.
JFK AIRPORT
Building Type: CARGO
Constructed: 1966
Inspected: 07/15/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The material is sprayed-on I-beams throughout the ceiling area. A large amount of overspray is evident. Removal will be hampered by limited accessibility.							AREA TOTAL			$629,182	$116,391	$745,573
08	PAN AM CARGO	3rd Floor-General Offices-Floor					AREA AVERAGE % ASB - 7%							
		offices	251541-0	vinyl floor tile	OMZ	27500	sq.ft.		7	6	IV	$124,850	$94,600	$219,450
		The material is located throughout the 3rd floor office area. No damage is apparent.							AREA TOTAL			$124,850	$94,600	$219,450
09	PAN AM CARGO	3rd Floor-General Offices-Boiler Room					AREA AVERAGE % ASB - 19%							
		on boiler doors	251584-0	gasket	OMZ	12	sq.ft.		60	24	III	$17	$8	$25
		on air handlers in A/C room	251600-0	vibration joint cloth	OMZ	8	sq.ft.		95	24	III	$143	$77	$220
		above chiller #12 throughout	251572-16	mjp on non-suspect pipe cover	OMA	67	10 in. O.D.	CWS/R	15	24	III	$5,643	$3,527	$9,170
		by stairs	251572-16	mjp on non-suspect pipe cover	OMA	11	6 in. O.D.	CWS/R	15	24	III	$572	$336	$908
			251573-16	mjp on non-suspect pipe cover	OMA				0	24	III			
			251574-16	mjp on non-suspect pipe cover	OMA				0	24	III			
		off boiler	251575-17	mjp on non-suspect pipe cover	OMA	18	4 in. O.D.	HWS/R	25	24	III	$680	$378	$1,058
		off boiler	251575-17	mjp on non-suspect pipe cover	OMA	38	6 in. O.D.	HWS/R	25	24	III	$1,978	$1,162	$3,140
		off boiler	251575-17	mjp on non-suspect pipe cover	OMA	18	8 in. O.D.	HWS/R	25	24	III	$1,166	$685	$1,851
		off boiler	251575-17	mjp on non-suspect pipe cover	OMA	22	14 in. O.D.	HWS/R	25	24	III	$2,565	$1,649	$4,214
			251576-17	mjp on non-suspect pipe cover	OMA				0	24	III			
			251577-17	mjp on non-suspect pipe cover	OMA				0	24	III			
		chiller #1 top tank	251578-18	boiler/tank insulation	OMB	20	sq.ft.		10	24	III	$956	$766	$1,722
			251579-18	boiler/tank insulation	OMB				15	24	III			
			251580-18	boiler/tank insulation	OMB				10	24	III			
		chiller #1 bottom tank	251581-19	boiler/tank insulation	OMB	20	sq.ft.		0					
			251582-19	boiler/tank insulation	OMB				0					
			251583-19	boiler/tank insulation	OMB				0					
		chiller #2 top tank	251585-20	boiler/tank insulation	OMB	20	sq.ft.		10	24	III	$956	$766	$1,722
			251586-20	boiler/tank insulation	OMB				10	24	III			
			251587-20	boiler/tank insulation	OMB				10	24	III			
		chiller #2 bottom tank	251588-21	boiler/tank insulation	OMB	20	sq.ft.		10			$956	$766	$1,722
			251589-21	boiler/tank insulation	OMB				0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			251590-21	boiler/tank insulation	OMB				0					
		boiler #1 vent pipe	251591-22	breecher/exhaust stack packing	OMB	400	sq.ft.		0					
			251592-22	breecher/exhaust stack packing	OMB				0					
			251593-22	breecher/exhaust stack packing	OMB				0					
		boiler #2 vent pipe	251594-23	breecher/exhaust stack packing	OMB	400	sq.ft.		0					
			251595-23	breecher/exhaust stack packing	OMB				0					
			251596-23	breecher/exhaust stack packing	OMB				0					
		above water heater	251597-24	mjp on non-suspect pipe cover	OMA	40	4 in. O.D.	DW	0					
		in west air plenum room	251597-24	mjp on non-suspect pipe cover	OMA	16	4 in. O.D.	DW	0					
			251598-24	mjp on non-suspect pipe cover	OMA				0					
			251599-24	mjp on non-suspect pipe cover	OMA				0					
		inside air handler door	251701-25	corrugated pipe covering	OMA	30	ft. 6 in. O.D.	CWS/R	80	24	III	$524	$328	$852
			251702-25	corrugated pipe covering	OMA				85	24	III			
			251703-25	corrugated pipe covering	OMA				35	24	III			
		on water heater	251722-30	boiler/tank insulation	OMB	256	sq.ft.		0					
			251723-30	boiler/tank insulation	OMB				0					
			251724-30	boiler/tank insulation	OMB				0					
		above water heater	251734-33	breecher/exhaust stack packing	OMB	4	sq.ft.		0					
			251735-33	breecher/exhaust stack packing	OMB				0					
			251736-33	breecher/exhaust stack packing	OMB				0					
		The material is found throughout the boiler, switch gear, and air conditioner areas in the 3rd floor equipment room. The pipe insulation, as a whole, is in fair condition. Localized damage areas were observed.							AREA TOTAL			$16,156	$10,448	$26,604
10	PAN AM CARGO	3rd Floor-General Offices-Boiler Room							AREA AVERAGE % ASB - 37%					
		I-beams above switch gear room	251532-6	fireproofing	OMC	423	sq.ft.		40	84	I	$15,275	$2,826	$18,101
		I-beams inside air plenum	251532-6	fireproofing	OMC	217	sq.ft.		40	84	I	$7,836	$1,450	$9,286
		I-beams above boiler room	251532-6	fireproofing	OMC	1439	sq.ft.		40	84	I	$51,962	$9,613	$61,575
			251533-6	fireproofing	OMC				40	84	I			
			251534-6	fireproofing	OMC				35	84	I			
			251535-6	fireproofing	OMC				40	84	I			
			251536-6	fireproofing	OMC				35	84	I			
			251537-6	fireproofing	OMC				35	84	I			
			251538-6	fireproofing	OMC				30	84	I			
			251539-6	fireproofing	OMC				40	84	I			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			251540-6	fireproofing	OMC				35	84	I			
		The material is sprayed-on I-beams throughout the equipment room. Due to the strong air plenum, a good deal of material has been dislodged. Removal will be hindered by the confined space.							AREA TOTAL			$75,073	$13,889	$88,962
11	PAN AM CARGO	3rd Floor-General Offices-Simulator Rm							AREA AVERAGE % ASB - 37%					
		throughout	251532-6	fireproofing	OMC	1980	sq.ft.		40	75	I	$46,867	$10,138	$57,005
			251533-6	fireproofing	OMC				40	75	I			
			251534-6	fireproofing	OMC				35	75	I			
			251535-6	fireproofing	OMC				40	75	I			
			251536-6	fireproofing	OMC				35	75	I			
			251537-6	fireproofing	OMC				35	75	I			
			251538-6	fireproofing	OMC				30	75	I			
			251539-6	fireproofing	OMC				40	75	I			
			251540-6	fireproofing	OMC				35	75	I			
		The material is sprayed-on I-beams throughout the training area. A large amount of overspray and contact damage is evident. Removal will be hampered by the ceiling height as well as the large amount of equipment in the area.							AREA TOTAL			$46,867	$10,138	$57,005
12	PAN AM CARGO	3rd Floor-General Offices-Above Ceiling							AREA AVERAGE % ASB - 39%					
		I-beams emergency-mock up	251532-6	fireproofing	OMC	1800	sq.ft.		40	63	I	$64,998	$12,024	$77,022
		I-beams 747 mock up room	251532-6	fireproofing	OMC	2100	sq.ft.		40	63	I	$75,831	$14,028	$89,859
		I-beams Captain's office	251532-6	fireproofing	OMC	455	sq.ft.		40	63	I	$16,430	$3,039	$19,469
		I-beams halls & corridors	251532-6	fireproofing	OMC	1980	sq.ft.		40	63	I	$71,498	$13,226	$84,724
		I-beams J. A. T.	251532-6	fireproofing	OMC	740	sq.ft.		40	63	I	$26,721	$4,943	$31,664
		I-beams west classroom	251532-6	fireproofing	OMC	1300	sq.ft.		40	63	I	$46,943	$8,684	$55,627
		I-beams east classroom	251532-6	fireproofing	OMC	1300	sq.ft.		40	63	I	$46,943	$8,684	$55,627
		I-beams-ground instructors office	251532-6	fireproofing	OMC	3200	sq.ft.		40	63	I	$115,552	$21,376	$136,928
		I-beams instructor's office	251532-6	fireproofing	OMC	1360	sq.ft.		40	63	I	$49,110	$9,085	$58,195
		I-beams flight engineer's office	251532-6	fireproofing	OMC	765	sq.ft.		40	63	I	$27,624	$5,110	$32,734
		I-beams cock-pit mock-up	251532-6	fireproofing	OMC	960	sq.ft.		40	63	I	$34,666	$6,413	$41,079
		I-beams Saudi Air Lines	251532-6	fireproofing	OMC	1200	sq.ft.		40	63	I	$43,332	$8,016	$51,348

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		I-beams file room	251532-6	fireproofing	OMC	740	sq.ft.		40	63	I	$26,721	$4,943	$31,664
			251533-6	fireproofing	OMC				40	63	I			
			251534-6	fireproofing	OMC				35	63	I			
			251535-6	fireproofing	OMC				40	63	I			
			251536-6	fireproofing	OMC				35	63	I			
			251537-6	fireproofing	OMC				35	63	I			
			251538-6	fireproofing	OMC				30	63	I			
			251539-6	fireproofing	OMC				40	63	I			
			251540-6	fireproofing	OMC				35	63	I			
		The material is sprayed-on I-beams and a large amount of overspray is evident. Removal will be hampered by limited space.							AREA TOTAL			$646,369	$119,571	$765,940
13	PAN AM CARGO	3rd Floor-General Offices-Rest Room							AREA AVERAGE % ASB - 0%					
		behind walls & floors	251597-24	mjp on non-suspect pipe cover	OMA	90	4 in. O.D.	DW	0					
			251598-24	mjp on non-suspect pipe cover	OMA				0					
			251599-24	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
14	PAN AM CARGO	Cargo Area							AREA AVERAGE % ASB - 0%					
		south wing extention	251713-27	mjp on non-suspect pipe cover	OMA	42	4 in. O.D.	HWS/R	0					
		(A-J) column A11	251713-27	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	HWS/R	0					
		south wall-column A(6W-11)	251713-27	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	HWS/R	0					
		center cargo, A-E (6-4)	251713-27	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	HWS/R	0					
		center cargo, F-J	251713-27	mjp on non-suspect pipe cover	OMA	11	6 in. O.D.	HWS/R	0					
		center cargo, 5-6 (B-J)	251713-27	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	HWS/R	0					
		east cargo, 9-10 (B-J)	251713-27	mjp on non-suspect pipe cover	OMA	16	6 in. O.D.	HWS/R	0					
		north cargo column A(1-9)	251713-27	mjp on non-suspect pipe cover	OMA	14	6 in. O.D.	HWS/R	0					
		column K, to heaters	251713-27	mjp on non-suspect pipe cover	OMA	42	4 in. O.D.	HWS/R	0					
		H-6 office	251713-27	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	HWS/R	0					
		finger #1	251713-27	mjp on non-suspect pipe cover	OMA	10	6 in. O.D.	HWS/R	0					
		south wall-column A(1-6e)	251713-27	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	HWS/R	0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		H-J (5-6)	251713-27	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	HWS/R	0					
			251714-27	mjp on non-suspect pipe cover	OMA				0					
			251715-27	mjp on non-suspect pipe cover	OMA				0					
		(A-J) column A11	251716-28	mjp on non-suspect pipe cover	OMA	11	6 in. O.D.	SA	0					
		finger #2, pump #31	251716-28	mjp on non-suspect pipe cover	OMA	10	6 in. O.D.	HWS/R	0					
		finger #2	251716-28	mjp on non-suspect pipe cover	OMA	12	6 in. O.D.	SA	0					
		finger #2	251716-28	mjp on non-suspect pipe cover	OMA	24	6 in. O.D.	HWS/R	0					
		finger #2, pump #23	251716-28	mjp on non-suspect pipe cover	OMA	10	6 in. O.D.	HWS/R	0					
		finger #1	251716-28	mjp on non-suspect pipe cover	OMA	12	6 in. O.D.	HWS/R	0					
			251717-28	mjp on non-suspect pipe cover	OMA				0					
			251718-28	mjp on non-suspect pipe cover	OMA				0					
		animal room	251719-29	corrugated pipe covering	OMA	85	ft. 4 in. O.D.	HWS/R	0					
		finger #2	251719-29	corrugated pipe covering	OMA	160	ft. 6 in. O.D.	HWS/R	0					
			251720-29	corrugated pipe covering	OMA				0					
			251721-29	corrugated pipe covering	OMA				0					
								AREA TOTAL				$0	$0	$0
15	PAN AM CARGO	Cargo Area-Weld Shop					AREA AVERAGE % ASB - 32%							
		south wall to floor	251731-32	mjp on non-suspect pipe cover	OMA	5	4 in. O.D.	DW	30	22	III	$189	$105	$294
			251732-32	mjp on non-suspect pipe cover	OMA				30	22	III			
			251733-32	mjp on non-suspect pipe cover	OMA				35	22	III			
		The pipe insulation is in good condition.						AREA TOTAL				$189	$105	$294
16	PAN AM CARGO	Cargo Area-Weld Shop					AREA AVERAGE % ASB - 32%							
		throughout ceiling area	251725-31	fireproofing	OMC	2392	sq.ft.		30	66	I	$86,375	$15,979	$102,354
			251726-31	fireproofing	OMC				35	66	I			
			251727-31	fireproofing	OMC				30	66	I			
		The material is sprayed-on I-beams and steel decking throughout the weld shop ceiling. A small amount of damage is apparent. Accessibility will be hampered by the ceiling height as well as a large welding ventilation system.						AREA TOTAL				$86,375	$15,979	$102,354

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
17	PAN AM CARGO	Cargo Area-North Ceiling Area					AREA AVERAGE % ASB - 32%							
		between column (J-1 to J-11)	251704-26	fireproofing	OMC	18744	sq.ft.		40	84	I	$676,846	$125,210	$802,056
			251705-26	fireproofing	OMC				40	84	I			
			251706-26	fireproofing	OMC				20	84	I			
			251707-26	fireproofing	OMC				35	84	I			
			251708-26	fireproofing	OMC				35	84	I			
			251709-26	fireproofing	OMC				30	84	I			
			251710-26	fireproofing	OMC				25	84	I			
			251711-26	fireproofing	OMC				30	84	I			
			251712-26	fireproofing	OMC				35	84	I			
		The material is sprayed-on I-beams throughout the area. The material shows apparent water and vibration damage. Removal will be hampered by the 35' height of the material.							AREA TOTAL			$676,846	$125,210	$802,056
18	PAN AM CARGO	Annex-Ground Floor-Floor					AREA AVERAGE % ASB - 10%							
		throughout	251517-0	vinyl floor tile	OMZ	6200	sq.ft.		10	6	IV	$28,148	$21,328	$49,476
		The material is located throughout offices and hallways. No damage is apparent.							AREA TOTAL			$28,148	$21,328	$49,476
19	PAN AM CARGO	Annex-Ground Floor-Boiler Room					AREA AVERAGE % ASB - 42%							
		behind boiler #1	251554-10	corrugated pipe covering	OMA	80	ft. 4 in. O.D.	HWS/R	0					
			251555-10	corrugated pipe covering	OMA				0					
			251556-10	corrugated pipe covering	OMA				0					
		vents above boilers	251557-11	breecher/exhaust stack packing	OMB	20	sq.ft.		50	22	III	$1,141	$920	$2,061
			251558-11	breecher/exhaust stack packing	OMB				55	22	III			
			251559-11	breecher/exhaust stack packing	OMB				50	22	III			
		pumps by door	251560-12	mjp on non-suspect pipe cover	OMA	14	10 in. O.D.	CWS/R	55	22	III	$1,179	$737	$1,916
		above chiller tank	251560-12	mjp on non-suspect pipe cover	OMA	4	10 in. O.D.	CWS/R	55	22	III	$337	$211	$548
		above chiller tank	251560-12	mjp on non-suspect pipe cover	OMA	3	14 in. O.D.	CWS/R	55	22	III	$350	$225	$575
			251561-12	mjp on non-suspect pipe cover	OMA				60	22	III			
			251562-12	mjp on non-suspect pipe cover	OMA				50	22	III			
		tank to motor	251563-13	boiler/tank insulation	OMB	10	sq.ft.	TW	45	22	III	$478	$383	$861

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			251564-13	boiler/tank insulation	OMB				50	22	III			
			251565-13	boiler/tank insulation	OMB				50	22	III			
		north wall-at ceiling	251546-8	mjp on non-suspect pipe cover	OMA	16	4 in. O.D.	DW	60	22	III	$605	$336	$941
			251547-8	mjp on non-suspect pipe cover	OMA				50	22	III			
			251548-8	mjp on non-suspect pipe cover	OMA				55	22	III			
		The material is in good condition overall, with a painted encapsulate helping to protect the insulation.							AREA TOTAL			$4,090	$2,812	$6,902
20	PAN AM CARGO	Annex-Ground Floor-Baggage Claim					AREA AVERAGE % ASB - 55%							
		around perimeter of bag claim	251546-8	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	DW	60	33	III	$454	$252	$706
			251547-8	mjp on non-suspect pipe cover	OMA				50	33	III			
			251548-8	mjp on non-suspect pipe cover	OMA				55	33	III			
		The material is approximately 12' high throughout the perimeter of the area. No apparent damage is seen.							AREA TOTAL			$454	$252	$706
21	PAN AM CARGO	Annex-Ground Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 41%							
		I-beam Eastern Air Line-simulator	251501-1	fireproofing	OMC	1100	sq.ft.		40	63	I	$39,721	$7,348	$47,069
		I-beams halls & corridors	251501-1	fireproofing	OMC	1890	sq.ft.		40	63	I	$68,248	$12,625	$80,873
		I-beams room 222	251501-1	fireproofing	OMC	760	sq.ft.		40	63	I	$27,444	$5,077	$32,521
		I-beams room 110	251501-1	fireproofing	OMC	760	sq.ft.		40	63	I	$27,444	$5,077	$32,521
		I-beams boiler & chiller room	251501-1	fireproofing	OMC	990	sq.ft.		40	63	I	$35,749	$6,613	$42,362
		I-beams Easter Air Line-breifing room	251501-1	fireproofing	OMC	1000	sq.ft.		40	63	I	$36,110	$6,680	$42,790
		I-beams room 108	251501-1	fireproofing	OMC	760	sq.ft.		40	63	I	$27,444	$5,077	$32,521
			251502-1	fireproofing	OMC				50	63	I			
			251503-1	fireproofing	OMC				35	63	I			
			251504-1	fireproofing	OMC				45	63	I			
			251505-1	fireproofing	OMC				40	63	I			
		The material is sprayed-on I-beams throughout the ground floor ceiling area. All material is located above acoustical drop ceiling tiles. Overspray is present on the steel decking and duct work.							AREA TOTAL			$262,160	$46,497	$310,657

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
22	PAN AM CARGO	Annex-2nd Floor-Floor					AREA AVERAGE % ASB - 11%							
		throughout	251518-0	vinyl floor tile	OMZ	5800	sq.ft.		11	6	IV	$26,332	$19,952	$46,284
		No damage is apparent.							AREA TOTAL			$26,332	$19,952	$46,284
23	PAN AM CARGO	Annex-2nd Floor-Air Conditioner Room					AREA AVERAGE % ASB - 0%							
		throughout	251566-14	mjp on non-suspect pipe cover	OMA	5	10 in. O.D.	CWS/R	0					
			251567-14	mjp on non-suspect pipe cover	OMA				0					
			251568-14	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
24	PAN AM CARGO	Annex-2nd Floor-Room S-229					AREA AVERAGE % ASB - 62%							
		above the drop ceiling	251569-15	corrugated pipe covering	OMA	240	ft. 4 in. O.D.	HWS/R	60	36	III	$2,880	$1,802	$4,682
			251570-15	corrugated pipe covering	OMA				65	36	III			
			251571-15	corrugated pipe covering	OMA				60	36	III			
		The material is located above ceiling panels and runs to the 2nd floor air conditioner room. No significant damage is seen. Accessibility will be hampered by the location above the ceiling.							AREA TOTAL			$2,880	$1,802	$4,682
25	PAN AM CARGO	Annex-2nd Floor					AREA AVERAGE % ASB - 50%							
		behind-walls/pipe chase (rest room)	251543-7	mjp on non-suspect pipe cover	OMA	36	4 in. O.D.	DW	50	12	IV	$1,361	$756	$2,117
			251544-7	mjp on non-suspect pipe cover	OMA				55	12	IV			
			251545-7	mjp on non-suspect pipe cover	OMA				45	12	IV			
		The material is located behind permanent walls and floors. However, the material was accessed and sampled through a panel. The numbers of elbows were estimated from available blueprints.							AREA TOTAL			$1,361	$756	$2,117

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
26	PAN AM CARGO	Annex-2nd Floor-Mechanical Room					AREA AVERAGE % ASB - 47%							
	I-beams-at ceiling		251506-2	fireproofing	OMC	620	sq.ft.		50	75	I	$22,388	$4,142	$26,530
			251507-2	fireproofing	OMC				45	75	I			
			251508-2	fireproofing	OMC				50	75	I			
			251509-2	fireproofing	OMC				40	75	I			
			251510-2	fireproofing	OMC				50	75	I			
	The material is located on I-beams throughout the air conditioner room. A moderate amount of overspray is apparent. Removal will be hampered by the large amount of equipment in the area.								AREA TOTAL			$22,388	$4,142	$26,530
27	PAN AM CARGO	Annex-2nd Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 49%							
	I-beams-mechanical equipment room		251506-2	fireproofing	OMC	1370	sq.ft.		50	63	I	$49,471	$9,152	$58,623
	I-beams men's rest room		251506-2	fireproofing	OMC	300	sq.ft.		50	63	I	$10,833	$2,004	$12,837
	I-beams Eastern Air Line Offices		251506-2	fireproofing	OMC	1250	sq.ft.		50	63	I	$45,138	$8,350	$53,488
	I-beams halls & corridors		251506-2	fireproofing	OMC	330	sq.ft.		50	63	I	$11,916	$2,204	$14,120
	I-beams-mock up training room		251506-2	fireproofing	OMC	800	sq.ft.		50	63	I	$28,888	$5,344	$34,232
	I-beams-storage room		251506-2	fireproofing	OMC	720	sq.ft.		50	63	I	$25,999	$4,810	$30,809
	I-beams observation deck		251506-2	fireproofing	OMC	970	sq.ft.		50	63	I	$35,027	$6,480	$41,507
	I-beams-rooms 205-209		251506-2	fireproofing	OMC	760	sq.ft.		50	63	I	$27,444	$5,077	$32,521
	I-beams-room 201-204		251506-2	fireproofing	OMC	760	sq.ft.		50	63	I	$27,444	$5,077	$32,521
			251507-2	fireproofing	OMC				45	63	I			
			251508-2	fireproofing	OMC				50	63	I			
			251509-2	fireproofing	OMC				40	63	I			
			251510-2	fireproofing	OMC				50	63	I			
	The material is located on I-beams throughout the area. A large amount of overspray exists.								AREA TOTAL			$262,160	$48,498	$310,658
28	PAN AM CARGO	Annex-3rd Floor-Floor					AREA AVERAGE % ASB - 8%							
	throughout		251519-0	vinyl floor tile	OMZ	2750	sq.ft.		8	6	IV	$12,485	$9,460	$21,945

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The material is located throughout offices and hallways. No damage is apparent.							AREA TOTAL			$12,485	$9,460	$21,945
29	PAN AM CARGO	Annex-3rd Floor-Women's Rest Room					AREA AVERAGE % ASB - 50%							
		within pipe chase	251543-7	mjp on non-suspect pipe cover	OMA	36	4 in. O.D.	DW	50	12	IV	$1,361	$756	$2,117
			251544-7	mjp on non-suspect pipe cover	OMA				55	12	IV			
			251545-7	mjp on non-suspect pipe cover	OMA				45	12	IV			
		The material is located behind the walls in chases. Material quantities were estimated from blueprints and samples are referenced from 2nd floor rest rooms.							AREA TOTAL			$1,361	$756	$2,117
30	PAN AM CARGO	Annex-3rd Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 43%							
		I-beams halls & corridors	251511-3	fireproofing	OMC	430	sq.ft.		45	63	I	$15,527	$2,872	$18,399
		I-beams mechanical equipment room	251511-3	fireproofing	OMC	1370	sq.ft.		45	63	I	$49,471	$9,152	$58,623
		I-beams conference room	251511-3	fireproofing	OMC	1250	sq.ft.		45	63	I	$45,138	$8,350	$53,488
		I-beams room 309	251511-3	fireproofing	OMC	1250	sq.ft.		45	63	I	$45,138	$8,350	$53,488
			251512-3	fireproofing	OMC				35	63	I			
			251513-3	fireproofing	OMC				45	63	I			
		The material is located on I-beams throughout the area. A large amount of overspray is present on the adjacent corrugated decking.							AREA TOTAL			$155,274	$28,724	$183,998
31	PAN AM CARGO	Annex-3rd Floor-Roof					AREA AVERAGE % ASB - 40%							
		roof, water chiller	251549-9	mjp on non-suspect pipe cover	OMA	15	10 in. O.D.	CWS/R	40	30	III	$1,263	$790	$2,053
			251550-9	mjp on non-suspect pipe cover	OMA				35	30	III			
			251551-9	mjp on non-suspect pipe cover	OMA				45	30	III			
		The material is located on the small annex roof. The material exhibits substantial weather damage.							AREA TOTAL			$1,263	$790	$2,053

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
32	PAN AM CARGO	Annex-3rd Floor-Roof					AREA AVERAGE % ASB - 50%							
	chiller, panels		251552-0	honeycomb Transite	OMZ	360	sq.ft.		50	5	IV	$3,467	$2,477	$5,944
	The cooling tower panels appeared to be in good condition, without visible damage.								AREA TOTAL			$3,467	$2,477	$5,944
33	PAN AM CARGO	Annex-4th Floor-Floor					AREA AVERAGE % ASB - 10%							
	throughout		251520-0	vinyl floor tile	OMZ	1030	sq.ft.		10	6	IV	$4,676	$3,543	$8,219
	The material is found throughout the office area. No damage is apparent.								AREA TOTAL			$4,676	$3,543	$8,219
34	PAN AM CARGO	Annex-4th Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 43%							
	I-beams room 414		251514-4	fireproofing	OMC	520	sq.ft.		45	63	I	$18,777	$3,474	$22,251
	I-beams halls & corridor		251514-4	fireproofing	OMC	300	sq.ft.		45	63	I	$10,833	$2,004	$12,837
	I-beams rest room		251514-4	fireproofing	OMC	300	sq.ft.		45	63	I	$10,833	$2,004	$12,837
	I-beams room 401		251514-4	fireproofing	OMC	970	sq.ft.		45	63	I	$35,027	$6,480	$41,507
	I-beams room 403		251514-4	fireproofing	OMC	520	sq.ft.		45	63	I	$18,777	$3,474	$22,251
			251515-4	fireproofing	OMC				30	63	I			
			251516-4	fireproofing	OMC				45	63	I			
	The material is sprayed-on I-beams throughout the area. A large amount of overspray is evident. Removal will be hampered by the small distance between the ceiling tiles and corrugated decking is approximately 1'.								AREA TOTAL			$94,247	$17,436	$111,683
35	PAN AM CARGO	Annex-4th Floor-Rest Room-Pipe Chase					AREA AVERAGE % ASB - 50%							
	within the walls		251543-7	mjp on non-suspect pipe cover	OMA	39	4 in. O.D.	DW	50	12	IV	$1,474	$819	$2,293
			251544-7	mjp on non-suspect pipe cover	OMA				55	12	IV			
			251545-7	mjp on non-suspect pipe cover	OMA				45	12	IV			
	The material is located behind permanent walls and floors. Therefore, sample identification is referenced from the 2nd floor rest room and quantities are estimated from blueprints.								AREA TOTAL			$1,474	$819	$2,293

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 067

Building Number: 067
Building Name: PAN AM UNIT CARGO BLDG.
JFK AIRPORT
Building Type: CARGO
Constructed: 1966
Inspected: 07/15/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
36	PAN AM CARGO	Roof					AREA AVERAGE % ASB -		0%					
	throughout		251553-0	roofing tar paper/roofing felt	OMZ	160000	sq.ft.			0				
									AREA TOTAL			$0	$0	$0
							TENANT - PAN AM CARGO			TOTAL		3,285,388	$789,103	4,074,491
									BUILDING TOTAL			3,285,388	$789,103	4,074,491

PA 078721

BUILDING 68
CARGO SERVICE BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 68 - CARGO SERVICE BUILDING

The Cargo Service Building was constructed in 1963. It contains two levels of cargo warehouse space and offices, and was constructed with concrete blocks and structural steel. Ex. 4 Tenants in this building at the time of the survey included Air India, Carkargo, Iraqi Airway, Virgin Cargo, TransWorld Shipping, and Loomis Armored.

Building materials confirmed asbestos-containing by laboratory analysis include mudded joint packing on fiberglass-insulated piping, and vinyl floor tiles.

Asbestos-containing mudded joint packing was present on fiberglass-insulated domestic water and hot water heating lines throughout the first floor and in the second floor boiler room. The materials have little visible damage and are classified as Priority Level II. It is recommended any damaged areas be repaired as needed, and the materials be included in an operations and maintenance program until they can be removed during a phased abatement.

Asbestos-containing vinyl floor tiles were identified in the second floor office. The tiles present little health hazard unless sawn, sanded, drilled, or altered causing fibers to become airborne. The area is classified as Priority Level IV. The tiles should be maintained until removed during a phased abatement.

Lay-in ceiling panels in the second floor offices were sampled, but were determined nonasbestos-containing.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

COST ESTIMATE

BUILDING 68 - CARGO SERVICE BUILDING

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$16,196
10% Contingency	$1,620
Total Removal/Replacement with Contingency	$17,816

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at Minimum Fee:	$6,000
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $17,816	$356
Total Project Estimate Including Professional Fees and Contingency	$31,032

COST ESTIMATE

BUILDING 68 - CARGO SERVICE BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$798
10% Contingency	$80
Total Removal/Replacement with Contingency	$878

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 068

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251690	Y	N	0						30				60	10 GM	100
1 -251691	Y	N	0						40				50	10 GM	100
1 -251692	Y	N	0						40				50	10 GM	100
2 -251693	Y	Y	40	40									50	10 GM	100
2 -251694	Y	Y	40	40									50	10 GM	100
2 -251695	Y	Y	40	40									50	10 GM	100
3 -251696	Y	Y	10	10					40				40	10 GM	100
3 -251697	Y	Y	20	20					50				30		100
3 -251698	Y	Y	10	10					50				40		100
4 -251699	Y	Y	20	20					50				30		100
4 -251700	Y	Y	20	20					50				30		100
4 -254468	N	Y	60	60					20				20		100
0 -254470	N	N	0						50	35			15		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 84

Building Number: 068
Building Name: CARGO SERVICE BLDG
JFK AIRPORT
Building Type: CARGO
Constructed: 1963
Inspected: 08/11/88
Inspector: Doug Thomas

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	CARGO SERVICE	1st Floor					AREA AVERAGE % ASB - 18%							
	Iraqui Airways-boiler room		251696-3	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	HWS/R	10	40	II	$529	$294	$823
	Air India-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	4	6 in. O.D.	HWS/R	10	40	II	$208	$122	$330
	Transworld Shipping-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	15	4 in. O.D.	HWS/R	10	40	II	$567	$315	$882
	Air India-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	HWS/R	10	40	II	$378	$210	$588
	Virgin Cargo-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	23	4 in. O.D.	HWS/R	10	40	II	$869	$483	$1,352
	Iraqui Airways-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	HWS/R	10	40	II	$454	$252	$706
	Carikargo-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	20	4 in. O.D.	HWS/R	10	40	II	$756	$420	$1,176
	Carikargo-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	12	6 in. O.D.	HWS/R	10	40	II	$624	$367	$991
	Virgin Cargo-boiler room		251696-3	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	HWS/R	10	40	II	$378	$210	$588
	Transworld Shipping-boiler room		251696-3	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	HWS/R	10	40	II	$378	$210	$588
	Carikargo-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	3	4 in. O.D.	HWS/R	10	40	II	$113	$63	$176
	Loomis Armored-1st floor-boiler room		251696-3	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	HWS/R	10	40	II	$529	$294	$823
	Loomis Armored-1st floor-cargo area		251696-3	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	HWS/R	10	40	II	$454	$252	$706
			251697-3	mjp on non-suspect pipe cover	OMA				20	40	II			
			251698-3	mjp on non-suspect pipe cover	OMA				10	40	II			
	Air India-hallway closet		251699-4	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	DW	20	40	II	$378	$210	$588
	Iraqui Airways-boiler room		251699-4	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	DW	20	40	II	$302	$168	$470
	Transworld Shipping-cargo area		251699-4	mjp on non-suspect pipe cover	OMA	3	4 in. O.D.	DW	20	40	II	$113	$63	$176
	Transworld Shipping-boiler room		251699-4	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	DW	20	40	II	$454	$252	$706
	Virgin Cargo-boiler room		251699-4	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	DW	20	40	II	$529	$294	$823
	Transworld Shipping-air conditioning rm		251699-4	mjp on non-suspect pipe cover	OMA	10	4 in. O.D.	DW	20	40	II	$378	$210	$588
	Virgin Cargo-air conditioner room		251699-4	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	DW	20	40	II	$302	$168	$470
	Loomis Armored-1st Floor-boiler room		251699-4	mjp on non-suspect pipe cover	OMA	15	4 in. O.D.	DW	20	40	II	$567	$315	$882
	Loomis Armored-1st Floor-cargo area		251699-4	mjp on non-suspect pipe cover	OMA	3	4 in. O.D.	DW	20	40	II	$113	$63	$176
			251700-4	mjp on non-suspect pipe cover	OMA				20	40	II			
			254468-4	mjp on non-suspect pipe cover	OMA				60	40	II			
									AREA TOTAL			$9,373	$5,235	$14,608

The mudded joint packings are scattered throughout the first floor. No visible contact or water damage is present.

PA 078733

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 84

Building Number: 068
Building Name: CARGO SERVICE BLDG
JFK AIRPORT
Building Type: CARGO
Constructed: 1963
Inspected: 08/11/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	AIR INDIA	2nd Floor-Ceiling					AREA AVERAGE % ASB - 0%							
	office area		254470-0	drop or lay-in panel	OMG	100	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
03	AIR INDIA	2nd Floor-Floors					AREA AVERAGE % ASB - 10%							
	office		254469-0	vinyl floor tile	OMZ	100	sq.ft.		10	9	IV	$454	$344	$798
	The material is in good condition. The area is accessed frequently.								AREA TOTAL			$454	$344	$798
04	AIR INDIA	2nd Floor-Boiler Room					AREA AVERAGE % ASB - 20%							
	boiler room		251690-1	mjp on non-suspect pipe cover	OMA	13	4 in. O.D.	HWS/R	0					
	boiler room		251690-1	mjp on non-suspect pipe cover	OMA	5	6 in. O.D.	HWS/R	0					
			251691-1	mjp on non-suspect pipe cover	OMA				0					
			251692-1	mjp on non-suspect pipe cover	OMA				0					
	boiler room		251693-2	mjp on non-suspect pipe cover	OMA	27	4 in. O.D.	DW	40	44	II	$1,021	$567	$1,588
			251694-2	mjp on non-suspect pipe cover	OMA				40	44	II			
			251695-2	mjp on non-suspect pipe cover	OMA				40	44	II			
	The mudded joint packings are in good condition, with little visible damage.								AREA TOTAL			$1,021	$567	$1,588
							TENANT - AIR INDIA		TOTAL			$1,475	$911	$2,386
									BUILDING TOTAL			$10,848	$6,146	$16,994

PA 078734

BUILDING 72
CITIBANK BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 72 - CITIBANK BUILDING

The Citibank building is a two-story bank constructed of concrete blocks and structural steel. It was built in 1959 and consists of small offices, a teller area, and a vault. Ex. 4

Asbestos-containing boiler insulation, mudded joint packing on fiberglass-insulated piping, tank insulation, and corrugated and wrapped cardboard pipe insulations with mudded joint packing were found in the boiler room. The materials had localized areas of contact damage. The area is classified as Priority Level III. It is recommended that the damaged areas be repaired as needed, and the materials be included in an operations and maintenance program until they can be removed.

Asbestos-containing pipe insulation on domestic water lines was thought to exist behind walls in the second floor office areas. The quantities were estimated since mechanical prints were not available. Asbestos-containing vinyl floor tiles were present throughout the second floor. The tiles were in good condition, without visible damage. These areas have been classified as Priority Level IV. The materials should be included in an operations and maintenance program until removal becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

COST ESTIMATE

BUILDING 72 - CITIBANK BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$38,241
10% Contingency	$3,824
Total Removal/Replacement with Contingency	$42,065

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 15.8% of Total Construction Cost:	
15.8% X $42,065	$6,646
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 15 8-hour shifts:	
15 X $490	$7,350
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $42,065	$841
Total Project Estimate Including Professional Fees and Contingency	$56,902

COST ESTIMATE

BUILDING 72 - CITIBANK BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$10,829
10% Contingency	$ 1,083
Total Removal/Replacement with Contingency	$11,912

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 072

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251739	Y	Y	60	10	50								40		100
1 -251740	Y	Y	60	45		15							40		100
1 -251741	Y	Y	55	45	10								45		100
2 -251742	Y	Y	70	30	40								30		100
2 -251743	Y	Y	60	30	30					10			30		100
2 -251744	Y	Y	60	25	35								40		100
3 -251745	Y	Y	60	20	40					10			30		100
3 -251746	Y	Y	65	25	40					5			30		100
3 -251747	Y	Y	60	20	40					5			35		100
4 -251748	Y	Y	30	30						60			10		100
4 -251749	Y	Y	15	15						75			10		100
4 -251750	Y	Y	20	20						70			10		100
5 -251751	Y	Y	55	55					10				35		100
5 -251752	Y	Y	50	50					20				30		100
5 -251753	Y	Y	55	55					15				30		100
6 -251754	Y	Y	70	70						20			10		100
6 -251755	Y	Y	75	75						15			10		100
6 -251756	Y	Y	70	70						20			10		100
7 -251757	Y	Y	30	30					20				20	30 D	100
7 -251758	Y	Y	25	25					20				25	30 D	100
7 -251759	Y	Y	25	25					25	10			30	10 D	100
8 -251760	Y	Y	35	35					15				40	10 D	100
8 -251761	Y	Y	40	40					15				35	10 D	100
8 -251762	Y	Y	35	35					15				40	10 D	100
0 -251764	N	Y	2	2									33	65 CA	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 85

Building Number: 072
Building Name: CITIBANK
JFK AIRPORT
Building Type: BANK
Constructed: 1959
Inspected: 08/04/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	CITIBANK	Basement-Boiler Room					AREA AVERAGE % ASB - 50%							
		on boiler	251739-1	boiler/tank insulation	OMB	193	sq.ft.		60	24	III	$9,229	$7,392	$16,621
			251740-1	boiler/tank insulation	OMB				60	24	III			
			251741-1	boiler/tank insulation	OMB				55	24	III			
		tank above boiler	251742-2	boiler/tank insulation	OMB	63	sq.ft.		70	24	III	$3,013	$2,413	$5,426
			251743-2	boiler/tank insulation	OMB				60	24	III			
			251744-2	boiler/tank insulation	OMB				60	24	III			
		boiler exhaust pipe	251745-3	breecher/exhaust stack packing	OMB	40	sq.ft.		60	24	III	$2,283	$1,839	$4,122
			251746-3	breecher/exhaust stack packing	OMB				65	24	III			
			251747-3	breecher/exhaust stack packing	OMB				60	24	III			
		above water heat tank	251748-4	wrapped cardboard/paper pipe	OMA	20	ft. 4 in. O.D.	DCW	30	24	III	$240	$150	$390
		boiler & switch gear	251748-4	wrapped cardboard/paper pipe	OMA	80	ft. 4 in. O.D.	DCW	30	24	III	$960	$601	$1,561
		above water heat tank	251749-4	wrapped cardboard/paper pipe	OMA				15	24	III			
		above water heat tank	251750-4	wrapped cardboard/paper pipe	OMA				20	24	III			
		above water heat tank	251751-5	mjp on wrapped cardboard/paper	OMA	8	4 in. O.D.	DCW	55	24	III	$302	$168	$470
		boiler & switch gear	251751-5	mjp on wrapped cardboard/paper	OMA	27	4 in. O.D.	DCW	55	24	III	$1,021	$567	$1,588
			251752-5	mjp on wrapped cardboard/paper	OMA				50	24	III			
			251753-5	mjp on wrapped cardboard/paper	OMA				55	24	III			
		above water heat tank	251754-6	corrugated pipe covering	OMA	20	ft. 4 in. O.D.	DHW	70	24	III	$240	$150	$390
		boiler & switch gear	251754-6	corrugated pipe covering	OMA	110	ft. 4 in. O.D.	DHW	70	24	III	$1,320	$826	$2,146
			251755-6	corrugated pipe covering	OMA				75	24	III			
			251756-6	corrugated pipe covering	OMA				70	24	III			
		boiler & switch gear	251757-7	mjp on corrugate pipe covering	OMA	34	4 in. O.D.	DHW	30	24	III	$1,285	$714	$1,999
		above water heat tank	251757-7	mjp on corrugate pipe covering	OMA	8	4 in. O.D.	DHW	30	24	III	$302	$168	$470
			251758-7	mjp on corrugate pipe covering	OMA				25	24	III			
			251759-7	mjp on corrugate pipe covering	OMA				25	24	III			
		on boiler and pumps	251760-8	mjp on non-suspect pipe cover	OMA	52	4 in. O.D.	HWS/R	35	24	III	$1,966	$1,092	$3,058
			251761-8	mjp on non-suspect pipe cover	OMA				40	24	III			
			251762-8	mjp on non-suspect pipe cover	OMA				35	24	III			
											AREA TOTAL	$22,161	$16,080	$38,241

The material is located on boilers and piping throughout the boiler room. The insulation is in moderate condition, with localized damage only. Removal, if needed, will be hampered by the lack of working area in this small room.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	CITIBANK	2nd Floor-Office Area-Floor					AREA AVERAGE % ASB - 2%							
	office area-throughout		251764-0	vinyl floor tile	OMZ	980	sq.ft.		2	6	IV	$4,449	$3,371	$7,820
	The material was in fair condition at the time of the survey.								AREA TOTAL			$4,449	$3,371	$7,820
03	CITIBANK	2nd Floor-Office Area					AREA AVERAGE % ASB - 44%							
	behind wall		251748-4	wrapped cardboard/paper pipe	OMA	60	ft. 4 in. O.D.	DCW	30	14	IV	$720	$451	$1,171
			251749-4	wrapped cardboard/paper pipe	OMA				15	14	IV			
			251750-4	wrapped cardboard/paper pipe	OMA				20	14	IV			
	behind wall		251751-5	mjp on wrapped cardboard/paper	OMA	10	4 in. O.D.	DCW	55	14	IV	$378	$210	$588
			251752-5	mjp on wrapped cardboard/paper	OMA				50	14	IV			
			251753-5	mjp on wrapped cardboard/paper	OMA				55	14	IV			
	behind wall		251754-6	corrugated pipe covering	OMA	40	ft. 4 in. O.D.	DHW	70	14	IV	$480	$300	$780
			251755-6	corrugated pipe covering	OMA				75	14	IV			
			251756-6	corrugated pipe covering	OMA				70	14	IV			
	behind wall		251757-7	mjp on corrugate pipe covering	OMA	8	4 in. O.D.	DHW	30	14	IV	$302	$168	$470
			251758-7	mjp on corrugate pipe covering	OMA				25	14	IV			
			251759-7	mjp on corrugate pipe covering	OMA				25	14	IV			
	The material was located behind permanent walls and floors. The guantities were estimated as accurately as possible and material samples are taken from similar lines in the boiler room.								AREA TOTAL			$1,880	$1,129	$3,009
							TENANT - CITIBANK		TOTAL			$28,490	$20,580	$49,070
									BUILDING TOTAL			$28,490	$20,580	$49,070

PA 078743

BUILDING 80
CARGO SERVICE BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 80 - CARGO SERVICE BUILDING

The Cargo Service Building is a two-story, cinder block structure which contains offices and cargo areas. The building was constructed in 1956.

Ex. 4

Building materials confirmed by laboratory analysis to contain asbestos include magnesia, corrugated, and wrapped cardboard pipe insulation with mudded joint packing; mudded joint packing on fiberglass-insulated piping systems; boiler and breeching insulation; vinyl floor tiles; and exterior duct insulations.

Exterior duct insulation was present on a roof-level air handling unit. The material had been damaged by weather. Damaged asbestos-containing mudded joint packing was observed on fuel oil lines in the mechanical room. These areas have been classified as Priority Level II. It is recommended the damaged materials be repaired and included in an operations an maintenance program until they can be removed during a phased abatement.

Asbestos-containing cardboard, magnesia, and wrapped cardboard pipe insulation with mudded joint packing; boiler and breeching insulation; and mudded joint packing on fiberglass-insulated piping were observed in the mechanical room, throughout the first floor, and in the penthouse mechanical room. These areas are classified as Priority Level III. It is recommended the damaged areas be repaired. The materials should then be monitored under an operations and maintenance program until they can be removed.

Asbestos-containing vinyl floor tiles are present in many of the office areas and the areas are classified as Priority Level IV. The tiles present little health hazard unless sawn, sanded, drilled, or altered in a way which will cause fibers to become airborne. The tiles should also be included in an operations and maintenance program until removal becomes feasible.

Pipe covering was observed on drain lines in rooms throughout the second floor. The covering was not accessible to be sampled, but should be treated as asbestos-containing until it can be analyzed prior to demolition or renovation.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078747

COST ESTIMATE

BUILDING 80 - CARGO SERVICE BUILDING

Removal of all asbestos-containing materials in Priority Level II. This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$17,541
10% Contingency	$1,754
Total Removal with Contingency	$19,295

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at Minimum Fee:	$6,000
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $'9,195	$386
Total Project Estimate Including Professional Fees and Contingency	$32,541

PA 078748

COST ESTIMATE

BUILDING 80 - CARGO SERVICE BUILDING

Removal of all asbestos-containing materials in Priority Level III. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$102,907
10% Contingency	$10,291
Total Removal with Contingency	$113,198

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 10.6% of Total Construction Cost:	
10.6% X $113,198	$11,999
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 29 8-hour shifts:	
29 X $490	$14,210
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $113,198	$2,264
Total Project Estimate Including Professional Fees and Contingency	$141,671

PA 078749

COST ESTIMATE

BUILDING 80 - CARGO SERVICE BUILDING

Removal of all asbestos-containing materials in Priority Level IV. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$168,716
10% Contingency	$16,872
Total Removal with Contingency	$185,588

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 9.1% of Total Construction Cost:	
9.1% X $185,588	$16,889
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 42 8-hour shifts:	
42 X $490	$20,580
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $185,588	$3,712
Total Project Estimate Including Professional Fees and Contingency	$226,769

PA 078750

PHOTOGRAPH LOG

BUILDING 80 - CARGO SERVICE BUILDING

Picture #	Description
1	East Penthouse.
2	West Penthouse.
3	Mechanical Room.
4	Mechanical Room.

PA 078751

80

C-LINE #52584
35MM PRINTS

1

2

3

4

PA 078752

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 080

				ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
19 -187201	Y	Y	70	30	40								30		100
19 -187202	Y	Y	70	30	40								30		100
20 -187203	Y	Y	33	28	5								10	10 GM CAL 47	100
20 -187204	Y	Y	32	30	2								10	10 GM CAL 48	100
20 -187205	Y	Y	35	35					35				20	10 GM	100
21 -187206	Y	Y	3	3					60				27	10 GM	100
21 -187207	Y	Y	28	28										10 GM CAL 62	100
21 -187208	Y	Y	30	30										10 GM CAL 60	100
0 -187209	N	Y	6	6									20	20 GM CAL 54	100
1 -187943	Y	N	0						65				35		100
1 -187944	Y	N	0						70				30		100
1 -187945	Y	N	0						65				35		100
2 -187946	Y	Y	40	40									5	45 CAL COT 10	100
2 -187947	Y	Y	40	40										20 COT CAL 40	100
2 -187948	Y	Y	30	30										25 COT CAL 45	100
3 -187949	Y	Y	45	30	15				25				30		100
3 -187950	Y	Y	30	20	10				40				30		100
3 -187951	Y	Y	35	20	15				35				30		100
4 -187952	Y	N	0						90				10		100
4 -187953	Y	Y	2	2					90				8		100
4 -187954	Y	N	0						90				10		100
5 -187955	Y	Y	50	25	25								50		100
5 -187956	Y	Y	45	20	25								55		100
5 -187957	Y	Y	50	25	25								50		100
6 -187958	Y	Y	55	55					20				25		100
6 -187959	Y	Y	50	50					20				30		100
6 -187960	Y	Y	55	55					20				25		100
7 -187961	Y	Y	70	70										10 CAL L 20	100
7 -187962	Y	Y	65	63	2									10 CAL L 25	100
7 -187963	Y	Y	70	70										10 CAL L 20	100
8 -187964	Y	Y	55	15	40								45		100
8 -187965	Y	Y	45		45								55		100
8 -187966	Y	Y	50	25	25								50		100
9 -187967	Y	Y	55	25	30								35	10 D	100
9 -187968	Y	Y	50	25	25								40	10 D	100
9 -187969	Y	Y	55	25	30								35	10 D	100
10 -187970	Y	Y	60	45	15								20	20 L	100
10 -187971	Y	Y	60	35	25								20	20 L	100
10 -187972	Y	Y	60	45	15								15	25 L	100
11 -187973	Y	Y	55	55									20	25 L	100
11 -187974	Y	Y	60	60									20	20 L	100
11 -187975	Y	Y	70	70									10	20 L	100
0 -187976	N	N	0						100						100
0 -187977	N	N	0						85					15 PT	100
0 -187978	N	Y	2	2									33	55 CAL GM 10	100
12 -187979	Y	N	0						60				40		100
12 -187980	Y	N	0						65				35		100
12 -187981	Y	N	0						60				40		100
13 -187982	Y	Y	55	30	25								45		100
13 -187983	Y	Y	50	35	15								50		100
13 -187984	Y	Y	50	30	20								50		100
14 -187985	Y	N	0						70				30		100
14 -187986	Y	N	0						70				30		100
14 -187987	Y	N	0						75				25		100
15 -187988	Y	N	0						65				35		100
15 -187989	Y	N	0						60				40		100
15 -187990	Y	N	0						65				35		100
16 -187991	Y	Y	10	10						75			15		100
16 -187992	Y	Y	10	10						75			15		100
16 -187993	Y	Y	10	10						75			15		100
17 -187994	Y	N	0						70				30		100
17 -187995	Y	N	0						70				30		100
17 -187996	Y	N	0						65				35		100
18 -187997	Y	N	0						10	15				55 COT TAR 20	100
18 -187998	Y	N	0						25	50				25 TAR	100
18 -187999	Y	N	0						10	30				35 COT TAR 25	100
19 -188000	N	Y	50	10	40								50		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 080

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
28 -295299	N	Y	30	30									70		100
28 -295300	N	Y	25	25										10 GM TA 65	100
0 -329064	N	Y	4	4									30	66 CA	100
22 -329065	Y	N	0						40	30		20	10		100
22 -329066	Y	N	0						40	30		20	10		100
22 -329067	Y	N	0						40	30		20	10		100
0 -329068	N	Y	3	3									30	67 CA	100
0 -329069	N	Y	2	2									20	78 CA	100
0 -329070	N	N	0										70	30 CA	100
0 -329071	N	Y	4	4									30	66 CA	100
0 -329072	N	Y	2	2									30	68 CA	100
23 -329073	Y	N	0						70	10			20		100
23 -329074	Y	N	0						80	10			10		100
23 -329075	Y	N	0						75	10			15		100
0 -329076	N	Y	8	8									30	62 CA	100
0 -329077	N	N	0										30	70 CA	100
0 -329078	N	Y	2	2									30	68 CA	100
0 -329079	N	N	0							10			30	60 CA	100
24 -329080	Y	N	0						40	30			30		100
24 -329081	Y	N	0						40	30			30		100
24 -329082	Y	N	0						30	30			40		100
0 -329083	N	Y	2	2									30	68 CA	100
0 -329084	N	Y	2	2									30	68 CA	100
0 -329085	N	N	0										30	70 CA	100
25 -329086	Y	N	0						40	30			30		100
25 -329087	Y	N	0						40	30			30		100
25 -329088	Y	N	0						35	35			30		100
0 -329089	N	N	0										40	60 CA	100
0 -329090	N	Y	2	2									38	60 CA	100
0 -329091	N	N	0										30	70 CA	100
0 -329092	N	N	0										35	65 CA	100
26 -329093	Y	N	0						40	40			20		100
26 -329094	Y	N	0						40	40			20		100
26 -329095	Y	N	0						40	40			20		100
0 -329096	N	N	0										35	65 CA	100
0 -329097	N	Y	2	2									30	68 CA	100
0 -329098	N	Y	2	2									28	70 CA	100
0 -329099	N	Y	2	2									33	65 CA	100
27 -379374	Y	Y	15	15					10				20	10 GM TA 45	100
27 -379378	Y	Y	15	15					30	5			10	40 TA	100
27 -379379	Y	Y	15	15					30	5			10	40 TA	100
28 -379399	N	Y	20	20									10	70 TA	100
0 -HK5905	N	N	0							8			42	50 CA	100

PA 078754

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 080

Building Number: 080
Building Name: CARGO SERVICE BUILDING
JFK AIRPORT
Building Type: OFFICES
Constructed: 1956
Inspected: 01/09/89
Inspector: L. Bennett

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	CARGO SERVICES	Mechanical Room					AREA AVERAGE % ASB - 41%							
		northeast of boiler #1	187943-1	mjp on non-suspect pipe cover	OMA	29	6 in. O.D.	HWS/R	0					$0
			187944-1	mjp on non-suspect pipe cover	OMA				0					$0
			187945-1	mjp on non-suspect pipe cover	OMA				0					$0
		throughout-mostly metal jacketed	187970-10	mjp on pipe covering	OMA	9	4 in. O.D.	LPS/R	60	28	III	$340		$340
		throughout-mostly metal jacketed	187970-10	mjp on pipe covering	OMA	11	6 in. O.D.	LPS/R	60	28	III	$572		$572
		throughout-mostly metal jacketed	187970-10	mjp on pipe covering	OMA	10	8 in. O.D.	LPS/R	60	28	III	$648		$648
		throughout-mostly metal jacketed	187970-10	mjp on pipe covering	OMA	12	10 in. O.D.	LPS/R	60	28	III	$1,011		$1,011
		throughout-mostly metal jacketed	187970-10	mjp on pipe covering	OMA	40	12 in. O.D.	LPS/R	60	28	III	$4,083		$4,083
		throughout-mostly metal jacketed	187970-10	mjp on pipe covering	OMA	2	20 in. O.D.	LPS/R	60	28	III	$468		$468
			187971-10	mjp on pipe covering	OMA				60	28	III			$0
			187972-10	mjp on pipe covering	OMA				60	28	III			$0
		boiler exhaust	187946-2	breecher/exhaust stack packing	OMB	132	sq.ft.		40	28	III	$7,533		$7,533
			187947-2	breecher/exhaust stack packing	OMB				40	28	III			$0
			187948-2	breecher/exhaust stack packing	OMB				30	28	III			$0
		boiler	187949-3	boiler/tank insulation	OMB	503	sq.ft.		45	28	III	$24,053		$24,053
			187950-3	boiler/tank insulation	OMB				30	28	III			$0
			187951-3	boiler/tank insulation	OMB				35	28	III			$0
		north side & along west wall	187952-4	metal wrapped pipe insulation	OMZ	35	ft. 4 in. O.D.	DW	0	28	III	$384		$384
		north side & along west wall	187952-4	metal wrapped pipe insulation	OMZ	60	ft. 6 in. O.D.	DW	0	28	III	$957		$957
			187953-4	metal wrapped pipe insulation	OMZ				2	28	III			$0
			187954-4	metal wrapped pipe insulation	OMZ				0	28	III			$0
		throughout	187955-5	metal wrapped pipe insulation	OMZ	55	ft. 6 in. O.D.	HPS/R	50	28	III	$877		$877
			187956-5	metal wrapped pipe insulation	OMZ				45	28	III			$0
			187957-5	metal wrapped pipe insulation	OMZ				50	28	III			$0
		throughout	187958-6	mjp on wrapped cardboard/paper	OMA	7	4 in. O.D.	DW	55	28	III	$265		$265
		throughout	187958-6	mjp on wrapped cardboard/paper	OMA	6	8 in. O.D.	DW	55	28	III	$389		$389

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187959-6	mjp on wrapped cardboard/paper	OMA				50	28	III			$0
			187960-6	mjp on wrapped cardboard/paper	OMA				55	28	III			$0
		throughout	187961-7	mjp on corrugate pipe covering	OMA	15	4 in. O.D.	LPS/R	70	28	III	$567		$567
			187962-7	mjp on corrugate pipe covering	OMA				65	28	III			$0
			187963-7	mjp on corrugate pipe covering	OMA				70	28	III			$0
		throughout	187964-8	pipe covering	OMA	140	ft. 4 in. O.D.	FO	55	28	III	$1,680		$1,680
		throughout	187964-8	pipe covering	OMA	25	ft. 6 in. O.D.	FO	55	28	III	$436		$436
			187965-8	pipe covering	OMA				45	28	III			$0
			187966-8	pipe covering	OMA				50	28	III			$0
		throughout	187967-9	pipe covering	OMA	20	ft. 4 in. O.D.	LPS/R	55	28	III	$240		$240
		throughout	187967-9	pipe covering	OMA	55	ft. 6 in. O.D.	LPS/R	55	28	III	$960		$960
		throughout	187967-9	pipe covering	OMA	15	ft. 8 in. O.D.	LPS/R	55	28	III	$286		$286
		throughout	187967-9	pipe covering	OMA	25	ft. 10 in. O.D.	LPS/R	55	28	III	$634		$634
		throughout	187967-9	pipe covering	OMA	40	ft. 12 in. O.D.	LPS/R	55	28	III	$1,185		$1,185
		throughout	187967-9	pipe covering	OMA	20	ft. 20 in. O.D.	LPS/R	55	28	III	$1,040		$1,040
			187968-9	pipe covering	OMA				50	28	III			$0
			187969-9	pipe covering	OMA				55	28	III			$0
									AREA TOTAL			$48,608	$0	$48,608

The material condition is good with minor contact and water damage. Some of the domestic water and low pressure steam lines have been encased in metal.

02 CARGO SERVICES Mechanical Room

AREA AVERAGE % ASB - 31%

	boiler doors	187976-0	gasket	OMZ	4	sq.ft.		0					$0
	throughout	187973-11	mjp on pipe covering	OMA	8	6 in. O.D.	FO	55	44	II	$416		$416
	throughout	187973-11	mjp on pipe covering	OMA	67	4 in. O.D.	FO	55	44	II	$2,533		$2,533
		187974-11	mjp on pipe covering	OMA				60	44	II			$0
		187975-11	mjp on pipe covering	OMA				70	44	II			$0

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 080

Building Number: 080
Building Name: CARGO SERVICE BUILDING
JFK AIRPORT
Building Type: OFFICES
Constructed: 1956
Inspected: 01/09/89
Inspector: L. Bennett

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$2,949	$0	$2,949
03	CARGO SERVICES	1st Floor					AREA AVERAGE % ASB - 47%							
		throughout	187970-10	mjp on pipe covering	OMA	56	4 in. O.D.	DW	60	26	III	$2,117		$2,117
		throughout	187970-10	mjp on pipe covering	OMA	27	6 in. O.D.	DW	60	26	III	$1,405		$1,405
		throughout	187970-10	mjp on pipe covering	OMA	4	8 in. O.D.	DW	60	26	III	$259		$259
			187971-10	mjp on pipe covering	OMA				60	26	III			$0
			187972-10	mjp on pipe covering	OMA				60	26	III			$0
		throughout	187979-12	mjp on non-suspect pipe cover	OMA	192	4 in. O.D.	DW	0					$0
			187980-12	mjp on non-suspect pipe cover	OMA				0					$0
			187981-12	mjp on non-suspect pipe cover	OMA				0					$0
		throughout	187982-13	pipe covering	OMA	760	ft. 4 in. O.D.	DW	55	26	III	$9,120		$9,120
		throughout	187982-13	pipe covering	OMA	820	ft. 6 in. O.D.	DW	55	26	III	$14,317		$14,317
			187983-13	pipe covering	OMA				50	26	III			$0
			187984-13	pipe covering	OMA				50	26	III			$0
		throughout	187958-6	pipe covering	OMA	680	ft. 4 in. O.D.	LPS/R	55	26	III	$8,160		$8,160
		throughout	187958-6	pipe covering	OMA	624	ft. 6 in. O.D.	LPS/R	55	26	III	$10,895		$10,895
			187959-6	pipe covering	OMA				50	26	III			$0
			187960-6	pipe covering	OMA				55	26	III			$0
		throughout	187961-7	mjp on pipe covering	OMA	21	4 in. O.D.	LPS/R	70	26	III	$794		$794
		throughout	187961-7	mjp on pipe covering	OMA	6	6 in. O.D.	LPS/R	70	26	III	$312		$312
			187962-7	mjp on pipe covering	OMA				65	26	III			$0
			187963-7	mjp on pipe covering	OMA				70	26	III			$0
		The material is in good condition.							AREA TOTAL			$47,379	$0	$47,379

PA 078757

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	CARGO SERVICES	Entrance to Citibank					AREA AVERAGE % ASB - 6%							
	throughout		187209-0	vinyl floor tile	OMZ	3600	sq.ft.		6	12	IV	$16,344		$16,344
	The material is in good condition.							AREA TOTAL				$16,344	$0	$16,344
05	CARGO SERVICES	Ground Floor-EPA & FDA Office					AREA AVERAGE % ASB - 1%							
	throughout-ceiling		187977-0	acoustical tile	OMG	3000	sq.ft.		0					$0
	throughout-floor		187978-0	vinyl floor tile	OMZ	3000	sq.ft.		2	12	IV	$13,620		$13,620
								AREA TOTAL				$13,620	$0	$13,620
06	CARGO SERVICES	1st Floor-Ceilings					AREA AVERAGE % ASB - 0%							
	rapid transit		329065-22	drop or lay-in panel	OMG	50	sq.ft.		0					$0
			329066-22	drop or lay-in panel	OMG				0					$0
			329067-22	drop or lay-in panel	OMG				0					$0
	room 115		329073-23	drop or lay-in panel	OMG	264	sq.ft.		0					$0
	room 113		329073-23	drop or lay-in panel	OMG	400	sq.ft.		0					$0
	rooms 104 & 106		329073-23	drop or lay-in panel	OMG	1000	sq.ft.		0					$0
	room 109		329073-23	drop or lay-in panel	OMG	150	sq.ft.		0					$0
	room 1A		329073-23	drop or lay-in panel	OMG	1050	sq.ft.		0					$0
			329074-23	drop or lay-in panel	OMG				0					$0
			329075-23	drop or lay-in panel	OMG				0					$0
	room 109		329080-24	drop or lay-in panel	OMG	20	sq.ft.		0					$0
			329081-24	drop or lay-in panel	OMG				0					$0
			329082-24	drop or lay-in panel	OMG				0					$0

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 080

Building Number: 080
Building Name: CARGO SERVICE BUILDING
JFK AIRPORT
Building Type: OFFICES
Constructed: 1956
Inspected: 01/09/89
Inspector: L. Bennett

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		room 98	329086-25	drop or lay-in panel	OMG	528	sq.ft.		0					$0
			329087-25	drop or lay-in panel	OMG				0					$0
			329088-25	drop or lay-in panel	OMG				0					$0
									AREA TOTAL			$0	$0	$0
07	CARGO SERVICES	1st Floor-Flooring							AREA AVERAGE % ASB - 2%					
		rapid transit	329064-0	vinyl floor tile	OMZ	50	sq.ft.		4	6	IV	$227		$227
		women's rest room & offices	329068-0	vinyl floor tile	OMZ	467	sq.ft.		3	6	IV	$2,120		$2,120
		office-green	329069-0	vinyl floor tile	OMZ	400	sq.ft.		2	6	IV	$1,816		$1,816
		room 114	329070-0	vinyl floor tile	OMZ	900	sq.ft.		0					$0
		room 117-green	329071-0	vinyl floor tile	OMZ	525	sq.ft.		4	6	IV	$2,383		$2,383
		room 109	329071-0	vinyl floor tile	OMZ	450	sq.ft.		4	6	IV	$2,043		$2,043
		room 117-black	329072-0	vinyl floor tile	OMZ	225	sq.ft.		2	6	IV	$1,021		$1,021
		room 108-brown	329076-0	vinyl floor tile	OMZ	400	sq.ft.		8	6	IV	$1,816		$1,816
		room 113-melon	329077-0	vinyl floor tile	OMZ	800	sq.ft.		0					$0
		rooms 104 & 106	329078-0	vinyl floor tile	OMZ	1000	sq.ft.		2	6	IV	$4,540		$4,540
		room 109 & other offices	329079-0	vinyl floor tile	OMZ	4950	sq.ft.		0					$0
		room 100-tan	329083-0	vinyl floor tile	OMZ	1875	sq.ft.		2	6	IV	$8,512		$8,512
		room 98-brown	329084-0	vinyl floor tile	OMZ	528	sq.ft.		2	6	IV	$2,397		$2,397
		room 1A-white	329089-0	vinyl floor tile	OMZ	1050	sq.ft.		0					$0
		Berkley linoleum	329090-0	linoleum	OMZ	1080	sq.ft.		2	6	IV	$4,903		$4,903
		These materials are in good condition.							AREA TOTAL			$31,778	$0	$31,778
08	CARGO SERVICES	2nd Floor							AREA AVERAGE % ASB - 0%					

PA 078759

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		rooms 203, 205, 213, 217 & 221	99999-0	pipe covering	OMA	100	ft. 8 in. O.D.	DR				$1,904		$1,904
		rooms 203, 205, 213, 217 & 221	99999-0	mjp on pipe covering	OMA	16	8 in. O.D.	DR				$1,036		$1,036
		These materials are in good condition with minor contact and water damage. Height to material is approximately 15' to 20' from the floor. At a minimum, it is recommended the material be maintained and monitored. If removal is planned, glove bag removal procedures are recommended.							AREA TOTAL			$2,940	$0	$2,940
09	CARGO SERVICES	2nd Floor-Floors					AREA AVERAGE % ASB - 1%							
		hallway-tan	329091-0	vinyl floor tile	OMZ	585	sq.ft.		0					$0
		hallway	329092-0	vinyl floor tile	OMZ	3415	sq.ft.		0					$0
		end office	329096-0	vinyl floor tile	OMZ	2545	sq.ft.		0					$0
		room 21	329097-0	vinyl floor tile	OMZ	525	sq.ft.		2	6	IV	$2,383		$2,383
		Dorf International	329098-0	vinyl floor tile	OMZ	600	sq.ft.		2	6	IV	$2,724		$2,724
		room 202-gray & offices	329099-0	vinyl floor tile	OMZ	21790	sq.ft.		2	6	IV	$98,927		$98,927
		American Express-cream	HK5905-0	vinyl floor tile	OMZ	525	sq.ft.		0					$0
		These materials are in good condition.							AREA TOTAL			$104,034	$0	$104,034
10	CARGO SERVICES	2nd Floor-Ceiling					AREA AVERAGE % ASB - 0%							
		hallway-throughout	329093-26	acoustical tile	OMG	4000	sq.ft.		0					$0
		room 211	329093-26	acoustical tile	OMG	2100	sq.ft.		0					$0
		Empire Shopping	329093-26	acoustical tile	OMG	900	sq.ft.		0					$0
		Dorf International	329093-26	acoustical tile	OMG	600	sq.ft.		0					$0
		room 215	329093-26	acoustical tile	OMG	1750	sq.ft.		0					$0
		room 221	329093-26	acoustical tile	OMG	10800	sq.ft.		0					$0
			329094-26	acoustical tile	OMG				0					$0

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 080

Building Number: 080
Building Name: CARGO SERVICE BUILDING
JFK AIRPORT
Building Type: OFFICES
Constructed: 1956
Inspected: 01/09/89
Inspector: L. Bennett

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								AREA TOTAL				$0	$0	$0
11	CARGO SERVICES	Penthouse-Mechanical Room					AREA AVERAGE % ASB - 16%							
		throughout	187985-14	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	DW	0					$0
		throughout	187985-14	mjp on non-suspect pipe cover	OMA	69	8 in. O.D.	DW	0					$0
			187986-14	mjp on non-suspect pipe cover	OMA				0					$0
			187987-14	mjp on non-suspect pipe cover	OMA				0					$0
		throughout	187988-15	mjp on non-suspect pipe cover	OMA	32	6 in. O.D.	CWS/R	0					$0
		throughout	187988-15	mjp on non-suspect pipe cover	OMA	54	8 in. O.D.	CWS/R	0					$0
			187989-15	mjp on non-suspect pipe cover	OMA				0					$0
			187990-15	mjp on non-suspect pipe cover	OMA				0					$0
		throughout	187991-16	wrapped cardboard/paper pipe	OMA	62	4 in. O.D.	DW	10	28	III	$2,344		$2,344
			187992-16	wrapped cardboard/paper pipe	OMA				10	28	III			$0
			187993-16	wrapped cardboard/paper pipe	OMA				10	28	III			$0
		throughout	187994-17	mjp on wrapped cardboard/paper	OMA	118	4 in. O.D.	DW	0					$0
			187995-17	mjp on wrapped cardboard/paper	OMA				0					$0
			187996-17	mjp on wrapped cardboard/paper	OMA				0					$0
		duct work	187997-18	exterior duct insulation	OMB	2500	sq.ft.		0					$0
			187998-18	exterior duct insulation	OMB				0					$0
			187999-18	exterior duct insulation	OMB				0					$0
		east penthouse-in front of door	187201-19	pipe covering	OMA	20	ft. 8 in. O.D.	CWS/R	70	28	III	$381		$381
			187202-19	pipe covering	OMA				70	28	III			$0
			188000-19	pipe covering	OMA				50	28	III			$0
		east penthouse-in front of door	187203-20	mjp on pipe covering	OMA	20	8 in. O.D.	CWS/R	33	28	III	$1,295		$1,295
			187204-20	mjp on pipe covering	OMA				32	28	III			$0
			187205-20	mjp on pipe covering	OMA				35	28	III			$0
		east penthouse	187206-21	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	DW	3	28	III	$529		$529

PA 078761

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		east penthouse	187206-21	mjp on non-suspect pipe cover	OMA	8	6 in. O.D.	DW	3	28	III	$416		$416
		east penthouse	187206-21	mjp on non-suspect pipe cover	OMA	23	10 in. O.D.	DW	3	28	III	$1,937		$1,937
			187207-21	mjp on non-suspect pipe cover	OMA				28	28	III			$0
			187208-21	mjp on non-suspect pipe cover	OMA				30	28	III			$0
		The material is in fair condition with minor contact and water damage.							AREA TOTAL			$6,902	$0	$6,902
12	CARGO SERVICES	Roof Area							AREA AVERAGE % ASB - 20%					
		near the roof exit	379374-27	exterior duct insulation	OMB	435	sq.ft.		15	56	II	$13,998		$13,998
			379378-27	exterior duct insulation	OMB				15	56	II			$0
			379379-27	exterior duct insulation	OMB				15	56	II			$0
		near the roof exit	295299-28	tar paper insulation	OMZ	34	ft. 6 in. O.D.	HWS/R	30	56	II	$594		$594
			295300-28	tar paper insulation	OMZ				25	56	II			$0
			379399-28	tar paper insulation	OMZ				20	56	II			$0
		The materials are in fair condition. At a minimum, it is recommended that the materials be repaired. If reomvoal is planned, localized gross removal procedures are recommended.							AREA TOTAL			$14,592	$0	$14,592
									TENANT - CARGO SERVICES		TOTAL	$289,146	$0	$289,146
									BUILDING TOTAL			$289,146	$0	$289,146

BUILDING 81
CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 81 - CARGO BUILDING

Building 81 is a one-story, cargo warehouse. It was constructed in 1956 of concrete and structural steel. Ex. 4 Tenants occupying this facility include DHL, N.Y.C.C. Air Freight, and Ogden Allied. The area occupied by DHL has been recently abated. The unoccupied warehouse space at the west end of the facility is controlled by Ogden Allied. Ex. 4

Asbestos containing materials identified in this facility include corrugated and wrapped cardboard pipe insulations and associated mudded joint packing, weatherproof coating on the corrugated steel walls, fireproofing on structural steel, breeching insulation, vinyl floor tile, mastic, and cementitious wall plaster. The pipe insulation materials are present on the domestic water, roof drain, and space heater exhaust piping systems.

Highly friable fireproofing in the west warehouse was damaged and has been classified as Priority Level I. The fireproofing is present on structural steel columns and joists. The fireproofing has contact and water damage, resulting in debris throughout the floor. Hall-Kimbrell recommends that the fireproofing and associated debris be removed as soon as possible using gross abatement procedures. The insulation materials on the space heater exhaust, domestic water, and roof drain piping systems should also be addressed during the abatement to ensure complete removal of all asbestos-containing materials from this area.

Damaged asbestos-containing pipe insulation on the roof drain, domestic water, and exhaust vent piping systems has been classified as Priority Level II. These materials are present in the DHL and N.Y.C.C. tenant spaces. These damaged materials should be repaired as needed until removal of the materials becomes feasible. The exterior walls of the west end warehouse are made of corrugated steel. The steel has been weatherproofed using an asbestos-containing material. A cementitious wall material was present within the exterior walls. These materials are relatively nonfriable and have been classified as Priority Level IV. Although the materials pose little potential for fiber release at this time, they should be addressed during the abatement of the unoccupied warehouse area.

Asbestos-containing floor tile and mastic were present in the office areas of the west warehouse. The floor tile was in poor condition, with areas of broken and missing tile. The floor tile and mastic are nonfriable despite this damage and have a low potential for fiber release unless drilled, sawn, or sanded. These materials have also been classified as Priority Level IV.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078768

COST ESTIMATE

BUILDING 81 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level I. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$151,393
10% Contingency	$15,139
Total Removal with Contingency	$166,532

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 9.4% of Total Construction Cost:

9.4% X $166,532	$15,654

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 39 8-hour shifts:

39 X $490	$19,110

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $166,532	$3,331

Total Project Estimate Including Professional Fees and Contingency	$204,627

PA 078769

COST ESTIMATE

BUILDING 81 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level II. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$32,204
10% Contingency	$3,220
Total Removal with Contingency	$35,424

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 17.0% of Total Construction Cost:	
17.0% X $35,424	$6,022
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $35,424	$708
Total Project Estimate Including Professional Fees and Contingency	$49,014

PA 078770

COST ESTIMATE

BUILDING 81 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$88,046
10% Contingency	$8,805
Total Removal with Contingency	$96,851

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 11.0% of Total Construction Cost:

11.0% X $96,851	$10,654

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 26 8-hour shifts:

26 X $490	$12,740

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $96,851	$1,937

Total Project Estimate Including Professional Fees and Contingency	$122,182

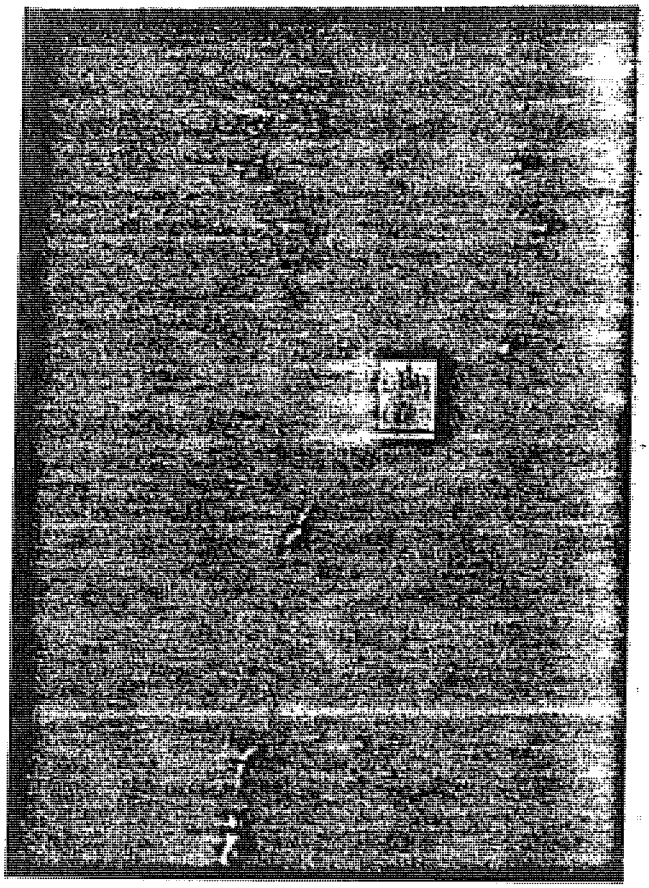
PA 078771

PHOTOGRAPH LOG

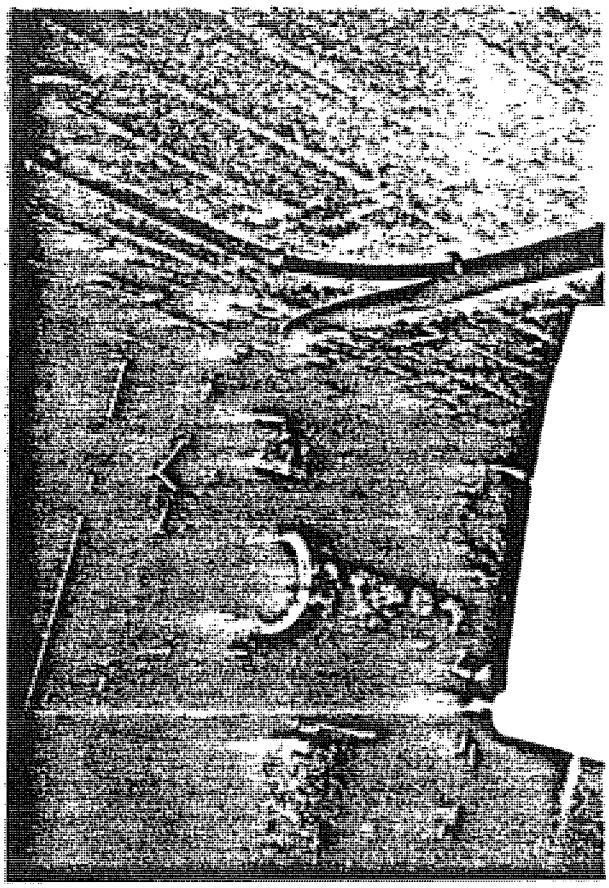
BUILDING 81 - CARGO BUILDING

Picture #	Description
1	West Warehouse, damaged wall material.
2	West Warehouse, space heater, exhaust pipe insulation.

PA 078772



1



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C-LINE #52584
35MM PRINTS

PA 078773

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 081

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER			TOTAL
0 -187212	N	N	0							10			30	10	GM	CAL 50	100
0 -187774	N	Y	2	2						90			8				100
1 -187775	Y	N	0										30	45	AH	SF 25	100
1 -187776	Y	N	0										25	45	AH	SF 30	100
1 -187777	Y	Y	5	5					10				15	45	AH	SF 25	100
0 -187778	N	N	0						30	35		15	20				100
0 -187779	N	Y	40	40									15	45	CAL		100
2 -187780	Y	Y	20	20						10	40		20	10	GM		100
2 -187781	Y	Y	18	18						10	40		20	12	GM		100
2 -187782	Y	Y	20	20							40		20	20	GM		100
2 -187783	Y	Y	15	15							45		10	10	SF	GM 20	100
2 -187784	Y	Y	10	10							45		20	10	SF	GM 15	100
2 -187785	Y	Y	4	4							35		50	11	GM		100
2 -187786	Y	Y	10	10							40		35	15	GM		100
0 -187787	N	Y	40	40									5	35	PT	TAR 20	100
3 -187789	Y	Y	6	4	2				24				10	30	SF	AH 30	100
3 -187790	Y	Y	20	18	2				45				25	10	AH		100
3 -187791	Y	Y	20	16	4				20				10	20	AH	SF 30	100
0 -187792	N	Y	15	15						65			5	15	COT		100
4 -221387	Y	Y	10	10					5		40		20	25	GM		100
4 -221388	Y	Y	10	10					5		40		20	25	GM		100
4 -221389	Y	Y	8	8					5		45		17	25	GM		100
0 -294388	N	N	0							13			32	30	CA	GM 25	100
0 -294389	N	N	0							15			21	64	CA		100
0 -379350	N	N	0							1			24	73	CA	TA 2	100
0 -379351	N	N	0										25	73	CA	TA 2	100
0 -379352	N	Y	4	4									26	67	CA	TA 3	100
0 -379353	N	Y	7	7						9			22	58	CA	TA 4	100
0 -379354	N	Y	9	9									21	68	CA	TA 2	100
0 -379355	N	Y	2	2						1			22	73	CA	TA 2	100
0 -379356	N	N	0										26	74	CA		100
4 -379357	Y	N	0						20				40	40	GM		100
4 -379358	Y	N	0								10		45	45	GM		100
4 -379359	Y	N	0								10		45	45	GM		100
5 -379360	Y	N	0							20			35	45	GM		100
5 -379361	Y	N	0							30	10		20	40	GM		100
5 -379362	Y	N	0							30	10		20	40	GM		100
0 -379363	Y	N	0						40	40		10	10				100
0 -379364	Y	N	0						40	40		10	10				100
0 -379365	Y	N	0						40	40		10	10				100
0 -379366	N	Y	2	2						87			11				100
6 -379367	Y	Y	40	40					40				20				100
6 -379368	Y	Y	40	40					40				20				100
6 -379369	Y	Y	40	40					40				20				100
0 -379370	N	Y	30	30						59			11				100
7 -379371	Y	Y	30	20	10				40	10			20				100
7 -379372	Y	Y	30	20	10				40	10			20				100
7 -379373	Y	Y	30	20	10				40	10			20				100
1 -379377	N	Y	10	10									20	15	GM	TA 55	100
0 -379396	N	N	0							20			20	21	CA	TA 39	100
0 -379397	N	N	0							20			34	36	CA	SF 10	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: Robert Couch

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	DHL	Ground Floor-Offices-Floor					AREA AVERAGE % ASB - 0%							
	throughout area		187212-0	vinyl floor tile	OMZ	4000	sq.ft.		0					$0
	break room area		379356-0	vinyl floor tile	OMZ	250	sq.ft.		0					$0
									AREA TOTAL			$0	$0	$0
02	DHL	Office Area-Ceiling					AREA AVERAGE % ASB - 0%							
	throughout area		187778-0	drop or lay-in panel	OMG	4074	sq.ft.		0					$0
									AREA TOTAL			$0	$0	$0
03	DHL	Warehouse & Vehicle Maintenance Garage					AREA AVERAGE % ASB - 15%							
	west ceiling area		187792-0	corrugated pipe covering	OMA	2 ft. 8 in. O.D.		DR	15	58	II	$38		$38
	west ceiling area		187789-3	mjp on corrugate pipe covering	OMA	2 8 in. O.D.		DR	6	58	II	$130		$130
			187790-3	mjp on corrugate pipe covering	OMA				20	58	II			$0
			187791-3	mjp on corrugate pipe covering	OMA				20	58	II			$0

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	The DHL cargo handling area has undergone an asbestos abatement. Most areas of the DHL occupied space, except the vehicle maintenance garage, have been abated. The remaining material suspected of containing asbestos is located in the vehicle maintenance garage and warehouse. A roof drain located near the ceiling area is insulated with suspect material and mudded joint packing. A small amount of damage was present in the garage area.								AREA TOTAL			$168	$0	$168
							TENANT - DHL		TOTAL			$168	$0	$168

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: Robert Couch

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	N.Y.C.C.	Office Area					AREA AVERAGE % ASB -		0%					
	ceiling area		187778-0	drop or lay-in panel	OMG	600	sq.ft.		0					$0
									AREA TOTAL			$0	$0	$0
							TENANT - N.Y.C.C.		TOTAL			$0	$0	$0

PA 078777

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
05	NYCC/OGDEN ALLID	Cargo Area-Space Heater Exhaust Vents					AREA AVERAGE % ASB - 40%							
		ceiling-where heaters were installed	187779-0	breecher/exhaust stack packing	OMB	30	sq.ft.		40	50	II	$1,712		$1,712
		The suspect material in this area is exhaust vent insulation. It is present on the vent piping of the ceiling mounted forced air gas space heaters. Localized water damage was observed during inspection.							AREA TOTAL			$1,712	$0	$1,712
06	NYCC/OGDEN ALLID	Cargo Area					AREA AVERAGE % ASB - 14%							
		throughout ceiling & north wall	187774-0	corrugated pipe covering	OMA	100	ft. 4 in. O.D.	DW	2	42	II	$1,200		$1,200
		throughout ceiling & north wall	187774-0	corrugated pipe covering	OMA	322	ft. 6 in. O.D.	HWS/R	2	42	II	$5,622		$5,622
		throughout at ceiling	187792-0	corrugated pipe covering	OMA	32	ft. 6 in. O.D.	DR	15	42	II	$559		$559
		throughout at ceiling	187792-0	corrugated pipe covering	OMA	72	ft. 8 in. O.D.	DR	15	42	II	$1,371		$1,371
		throughout ceiling & north wall	379370-0	wrapped cardboard/paper pipe	OMA	240	ft. 4 in. O.D.	DW	30	42	II	$2,880		$2,880
		throughout ceiling & north wall	187775-1	mjp on corrugate pipe covering	OMA	5	4 in. O.D.	DW	0	42	II	$189		$189
		throughout ceiling & north wall	187775-1	mjp on corrugate pipe covering	OMA	13	6 in. O.D.	HWS/R	0	42	II	$677		$677
			187776-1	mjp on corrugate pipe covering	OMA				0	42	II			$0
			187777-1	mjp on corrugate pipe covering	OMA				5	42	II			$0
		throughout at ceiling	187789-3	mjp on corrugate pipe covering	OMA	11	8 in. O.D.	DR	6	42	II	$712		$712
		throughout at ceiling	187789-3	mjp on corrugate pipe covering	OMA	2	6 in. O.D.	DR	6	42	II	$104		$104
			187790-3	mjp on corrugate pipe covering	OMA				20	42	II			$0
			187791-3	mjp on corrugate pipe covering	OMA				20	42	II			$0
		throughout ceiling & north wall	379371-7	mjp on wrapped cardboard/paper	OMA	16	4 in. O.D.	DW	30	42	II	$605		$605
			379372-7	mjp on wrapped cardboard/paper	OMA				30	42	II			$0
			379373-7	mjp on wrapped cardboard/paper	OMA				30	42	II			$0

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: Robert Couch

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The materials are in fair condition with minor contact and water damage. The materials are approximately 14' from the floor. At a minimum, it is recommended that the material be maintained and monitored. If removal is planned, extensive gross removal procedures recommended.												
												AREA TOTAL	$13,919	$0	$13,919
							TENANT - NYCC/OGDEN ALLI					TOTAL	$15,631	$0	$15,631

PA 078779

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: Robert Couch

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	U. S. CUSTOMS	Ground Floor-Ceiling Area					AREA AVERAGE % ASB -		0%					
	throughout		379363-0	drop or lay-in panel	OMG	600	sq.ft.		0					$0
									AREA TOTAL			$0	$0	$0
08	U. S. CUSTOMS	Ground Floor					AREA AVERAGE % ASB -		4%					
	throughout area-white		379350-0	vinyl floor tile	OMZ	5800	sq.ft.		0					$0
	throughout area-grey		379353-0	vinyl floor tile	OMZ	500	sq.ft.		7	7	IV	$2,270		$2,270
									AREA TOTAL			$2,270	$0	$2,270

The materials are in good condition very little contact or water damage. At a minimum, it is recommended that the mateiral be maintained and monitored. If removal is planned, extensive gross remvoal procedures are recommended.

TENANT - U. S. CUSTOMS TOTAL	$2,270	$0	$2,270

PA 078780

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: Robert Couch

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
09	OGDEN ALLIED	Southwest End Of the Building					AREA AVERAGE % ASB - 40%							
		ceiling-where heaters were installed	187779-0	breecher/exhaust stack packing	OMB	155	sq.ft.		40	54	II	$8,846		$8,846
		The suspect material in this area is exhaust vent insulation. It is present on the vent piping of the ceiling mounted forece air space heaters.. Localized water damage was observed during inspection.							AREA TOTAL			$8,846	$0	$8,846
10	OGDEN ALLIED	West Warehouse-Exterior Walls					AREA AVERAGE % ASB - 40%							
		throughout-on corrugated steel	187787-0	weatherproof coating on steel	OMZ	19440	sq.ft.		40	15	IV	$46,850		$46,850
		The material is located on the corrugated steel wall areas. It was located on both the interior and exterior wall areas. The material is not very friable.							AREA TOTAL			$46,850	$0	$46,850
11	OGDEN ALLIED	West Warehouse-Exterior Wall Areas					AREA AVERAGE % ASB - 9%							
		throughout-sandwiched between steel	221387-4	hard wall/ceiling plaster	OMD	5000	sq.ft.		10	15	IV	$12,050		$12,050
			221388-4	hard wall/ceiling plaster	OMD				10	15	IV			$0
			221389-4	hard wall/ceiling plaster	OMD				8	15	IV			$0
		The material is a hard cementitious spray-applied wall material. It is located within the exterior walls of the cargo bay. It was applied to a wire mesh screen with a paper backing. The exterior steel skin was installed after the material was applied.							AREA TOTAL			$12,050	$0	$12,050
12	OGDEN ALLIED	West Warehouse Area					AREA AVERAGE % ASB - 14%							
		on structural steel beams & columns	187780-2	fireproofing	OMC	6396	sq.ft.		20	108	I	$151,393		$151,393

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			187781-2	fireproofing	OMC				18	108	I			$0
			187782-2	fireproofing	OMC				20	108	I			$0
			187783-2	fireproofing	OMC				15	108	I			$0
			187784-2	fireproofing	OMC				10	108	I			$0
			187785-2	fireproofing	OMC				4	108	I			$0
			187786-2	fireproofing	OMC				10	108	I			$0
		The material located in this area is spray-applied fireproofing. It is located on the structural steel columns and beams. The material has severe contact and water damage. The material has been washed off and is delaminated from the substrate.							AREA TOTAL			$151,393	$0	$151,393
13	OGDEN ALLIED	West Warehouse-Cargo Area					AREA AVERAGE % ASB - 21%							
		north & central ceiling	187792-0	corrugated pipe covering	OMA	8	ft. 8 in. O.D.	DR	15	45	II	$152		$152
		at ceiling-in hallway between offices	379366-0	corrugated pipe covering	OMA	43	ft. 4 in. O.D.	DW	2	45	II	$516		$516
		above the center office areas	379366-0	corrugated pipe covering	OMA	100	ft. 4 in. O.D.	DW	2	45	II	$1,200		$1,200
		north center area of warehouse	379370-0	wrapped cardboard/paper pipe	OMA	77	ft. 4 in. O.D.	DW	30	45	II	$924		$924
		along the north wall-at ceiling	379370-0	wrapped cardboard/paper pipe	OMA	220	ft. 4 in. O.D.	DW	30	45	II	$2,640		$2,640
		north & central ceiling	187789-3	mjp on corrugate pipe covering	OMA	8	8 in. O.D.	DR	6	45	II	$518		$518
			187790-3	mjp on corrugate pipe covering	OMA				20	45	II			$0
			187791-3	mjp on corrugate pipe covering	OMA				20	45	II			$0
		at ceiling-in hallway between offices	379367-6	mjp on corrugate pipe covering	OMA	11	4 in. O.D.	DW	40	45	II	$416		$416
			379368-6	mjp on corrugate pipe covering	OMA				40	45	II			$0
			379369-6	mjp on corrugate pipe covering	OMA				40	45	II			$0
		along the north wall-at ceiling	379371-7	mjp on pipe covering	OMA	10	4 in. O.D.	DW	30	45	II	$378		$378
		north center area of warehouse	379371-7	mjp on pipe covering	OMA	5	4 in. O.D.	DW	30	45	II	$189		$189
			379372-7	mjp on pipe covering	OMA				30	45	II			$0
			379373-7	mjp on pipe covering	OMA				30	45	II			$0

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The pipe insulation in this area is in fair condition, with minor water damage and age deterioration.								AREA TOTAL		$6,933	$0	$6,933
14	OGDEN ALLIED	West Warehouse-Ceiling Areas					AREA AVERAGE % ASB - 0%							
	men's restroom		379363-0	drop or lay-in panel	OMG	85	sq.ft.		0					$0
	women's restroom		379363-0	drop or lay-in panel	OMG	90	sq.ft.		0					$0
	center office area		379364-0	drop or lay-in panel	OMG	2220	sq.ft.		0					$0
	north office area		379365-0	drop or lay-in panel	OMG	900	sq.ft.		0					$0
										AREA TOTAL		$0	$0	$0
15	OGDEN ALLIED	West Warehouse Area					AREA AVERAGE % ASB - 30%							
	janitors' closet		379370-0	wrapped cardboard/paper pipe	OMA	15	ft. 6 in. O.D.	DW	30	56	II	$262		$262
	janitors' closet		379371-7	mjp on wrapped cardboard/paper	OMA	7	6 in. O.D.	DW	30	56	II	$364		$364
			379372-7	mjp on wrapped cardboard/paper	OMA				30	56	II			$0
			379373-7	mjp on wrapped cardboard/paper	OMA				30	56	II			$0
		The materials are in fair condition, with minor contact and water damage. The material is approximately 14' from the floor. At a minimum, it is recommended that the material be repaired. If removal is planned, extensive gross removal procedures area recommended.								AREA TOTAL		$626	$0	$626
16	OGDEN ALLIED	West Warehouse Area-Wall Areas					AREA AVERAGE % ASB - 0%							
	northeast wall		379357-4	hard wall/ceiling plaster	OMD	2000	sq.ft.		0					$0
			379358-4	hard wall/ceiling plaster	OMD				0					$0

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			379359-4	hard wall/ceiling plaster	OMD				0					$0
		center office-wall area	379360-5	wall/ceiling board	OMZ	1800	sq.ft.		0					$0
			379361-5	wall/ceiling board	OMZ				0					$0
			379362-5	wall/ceiling board	OMZ				0					$0
									AREA TOTAL			$0	$0	$0
17	OGDEN ALLIED	Floor Areas							AREA AVERAGE % ASB - 4%					
		throughout cargo area offices-beige	379350-0	vinyl floor tile	OMZ	5400	sq.ft.		0					$0
		north of women's restroom-grey	379351-0	vinyl floor tile	OMZ	500	sq.ft.		0					$0
		west warehouse-west center office-blue	379352-0	vinyl floor tile	OMZ	900	sq.ft.		4	7	IV	$4,086		$4,086
		west warehouse-east center office-blue	379353-0	vinyl floor tile	OMZ	660	sq.ft.		7	7	IV	$2,996		$2,996
		west warehouse-east center office-white	379354-0	vinyl floor tile	OMZ	660	sq.ft.		9	7	IV	$2,996		$2,996
		west warehouse-north office-blue	379355-0	vinyl floor tile	OMZ	900	sq.ft.		2	7	IV	$4,086		$4,086
		Localized areas of contact damage were observed in each area. In the event of removal the material should undergo gross removal.							AREA TOTAL			$14,164	$0	$14,164
18	OGDEN ALLIED	Floor Areas-Beneath Floor Tile							AREA AVERAGE % ASB - 3%					
		cargo area offices	294388-0	mastic	OMZ	5900	sq.ft.		0					$0
		west warehouse-east center office	379377-0	mastic	OMZ	1320	sq.ft.		10	3	IV	$12,712		$12,712
		west warehouse-west center office	379396-0	mastic	OMZ	900	sq.ft.		0					$0
		west warehouse-north office	379397-0	mastic	OMZ	900	sq.ft.		0					$0

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: Robert Couch

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$12,712	$0	$12,712
							TENANT - OGDEN ALLIED			TOTAL		$253,574	$0	$253,574
								BUILDING TOTAL				$271,643	$0	$271,643

PA 078785

BUILDING 82
CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 82 - CARGO BUILDING

Building 82 is a one-story cargo warehouse. It was constructed in 1956 of concrete, cinder block, wood, and steel; and encompasses 68,700 square feet. The facility is used as a cargo warehouse with office space. The building is shared by several tenants including Aeromar Airlines, AeroMexico, Evergreen, Iceland Air, US Air, and the Port Authority.

Ex. 4

Asbestos-containing materials identified in this facility include wrapped cardboard and corrugated cardboard pipe insulation with associated mudded joint packing on the elbows, tees, and valves; vibration joint cloth; fireproofing; exterior duct insulation; and insulation on the space heater exhaust pipes. The pipe insulation materials are present on the domestic water and roof drain system.

Damaged friable fireproofing classified as Priority Level I is present in the AeroMexico cargo area. This material has been applied to the structural steel girders on the ceiling and to the walls of the loading dock. The material was in fair to poor condition with associated debris on the floor at the base of the south wall. Due to the amount of activity in the area and the potential for future damage to the material, Hall-Kimbrell recommends that this material be abated using gross removal procedures.

The exhaust pipe insulation associated with the ceiling level space heaters was damaged and in poor condition. Due to the condition of the material and the obsolescence of the space heater system, Hall-Kimbrell recommends that the material be removed as warranted on a unit-by-unit basis using glove bag procedures. The exhaust pipe insulation has also been classified as Priority Level I.

All other asbestos-containing materials present within this facility were in good condition and have been classified as Priority Level III and IV. These materials should be incorporated in an operations and maintenance program to periodically monitor the materials for any future damage until the complete removal of all asbestos-containing materials from this facility becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078789

COST ESTIMATE

BUILDING 82 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Levels I and II. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$358,263
10% Contingency	$35,826
Total Removal with Contingency	$394,089

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 7.7% of Total Construction Cost:	
7.7% X $394,089	$30,345
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 78 8-hour shifts:	
78 X $490	$38,220
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $394,089	$7,882
Total Project Estimate Including Professional Fees and Contingency	$470,536

PA 078790

BUILDING 82 - CARGO BUILDING

Removal of all asbestos-containing materials in all Priority Levels III and IV. (This facility is scheduled for demolition; therefore, the cost estimate reflects costs associated with removal of the materials only.)

Total Removal	$49,417
10% Contingency	$4,942
Total Removal with Contingency	$54,359

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 13.6 of Total Construction Cost:	
13.6% X $54,359	$7,393
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 17 8-hour shifts:	
17 X $490	$8,330
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $54,359	$1,087
Total Project Estimate Including Professional Fees and Contingency	$71,169

PA 078791

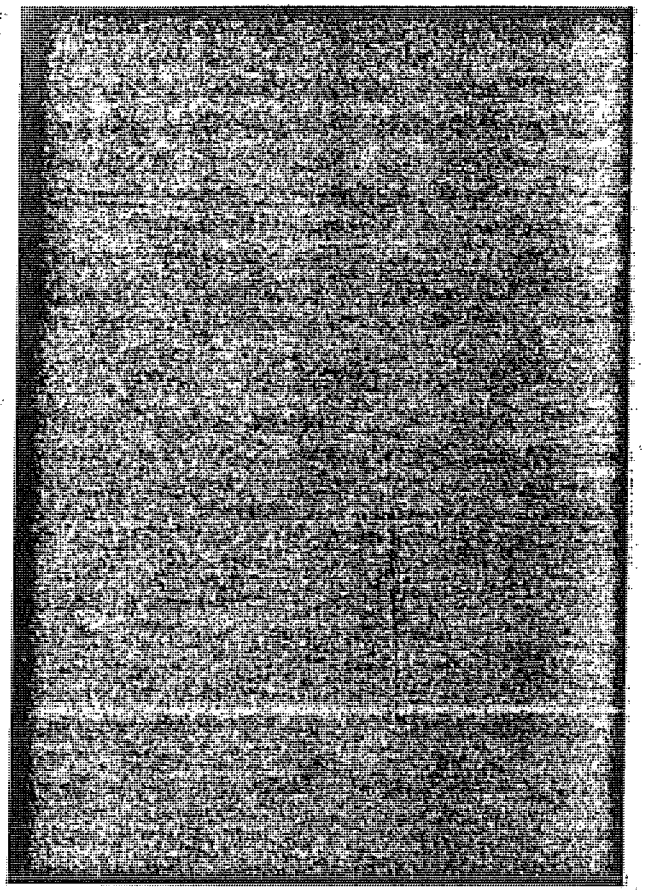
PHOTOGRAPH LOG

BUILDING 82 - CARGO BUILDING

Picture #	Description
1	Evergreen Airlines, fireproofing.
2	Aeromar Airlines, exhaust stack.
3	Aeromar Airlines, restroom, water lines.
4	U. S. Air, water heater lines.

PA 078792

92



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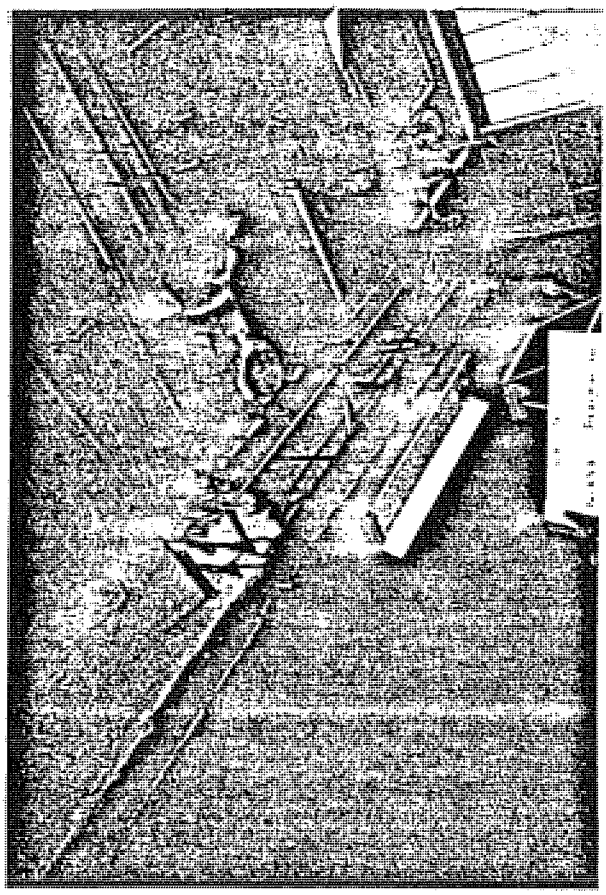

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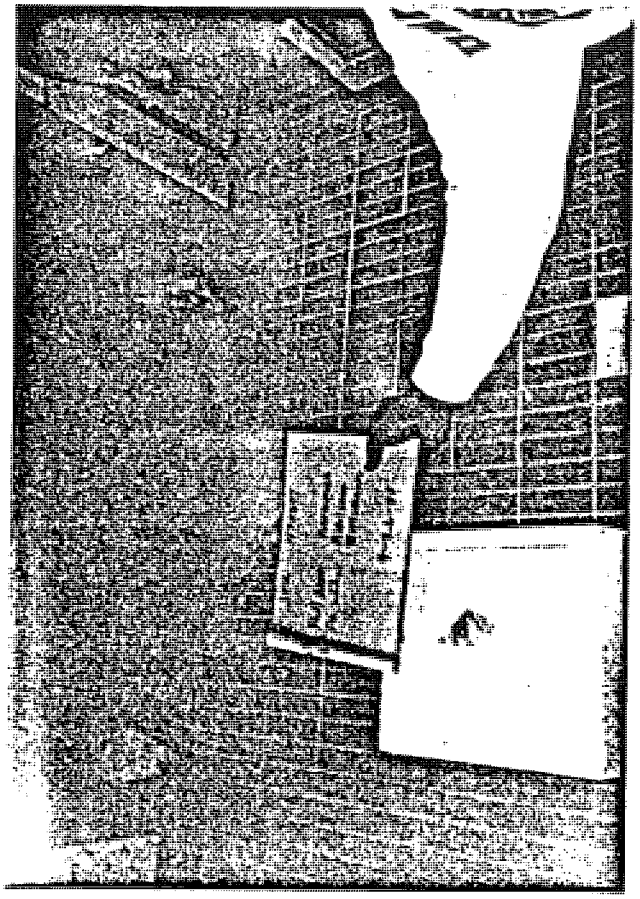

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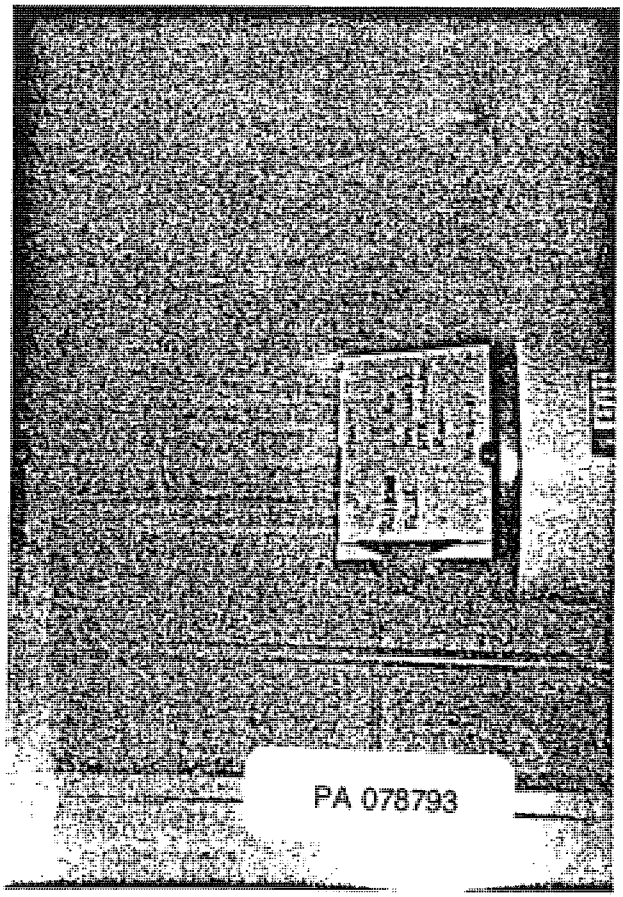

PA 078793

C-LINE #52584
35MM PRINTS

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 082

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -187901	Y	Y	25	15	10				50				25		100
1 -187902	Y	Y	35	25	10				45				20		100
1 -187903	Y	Y	30	25	5				50				20		100
0 -187904	N	Y	65	65						25			10		100
0 -187905	N	Y	70	70						20			10		100
2 -187906	Y	Y	40	25	15				35				25		100
2 -187907	Y	Y	40	30	10				40				20		100
2 -187908	Y	Y	35	25	10				40				25		100
0 -187909	N	N	0						45	30		20	5		100
0 -187910	N	N	0						75	15			10		100
3 -187911	Y	Y	25	20	5				40				25	10 D	100
3 -187912	Y	Y	30	25	5				40				20	10 D	100
3 -187913	Y	Y	30	25	5				40				20	10 D	100
0 -187914	N	Y	20	20						65			10	5 AH	100
4 -187915	Y	Y	6	6							49			45 GYP	100
4 -187916	Y	Y	6	6							44			50 GYP	100
4 -187917	N	N	0								45			55 PL	100
4 -187918	Y	Y	6	6							54			40 GYP	100
4 -187919	Y	Y	6	6							49			45 GYP	100
4 -187920	Y	Y	6	6							54			40 GYP	100
4 -187921	N	Y	6	6							54			40 GYP	100
5 -187922	Y	Y	25	20	5				45				20	10 D	100
5 -187923	Y	Y	40	30	10				30				20	10 D	100
5 -187924	Y	Y	35	25	10				35				20	10 D	100
0 -187925	N	Y	2	2						90			8		100
6 -187926	Y	Y	65	65										35 PL	100
6 -187927	Y	Y	60	60										40 PL	100
6 -187928	Y	Y	65	65										35 PL	100
0 -187929	N	Y	40	40						45			15		100
0 -187930	N	Y	15	15						70			15		100
7 -187931	Y	Y	30	20	10				40				20	10 D	100
7 -187932	Y	Y	35	30	5				35				20	10 D	100
7 -187933	Y	Y	30	25	5				40				20	10 D	100
8 -187934	Y	Y	40	30	10				30				20	10 D	100
8 -187935	Y	Y	25	22	3				45				20	10 D	100
8 -187936	Y	Y	27	25	2				40				23	10 D	100
0 -187937	N	Y	5	2	3				3	82			10		100
0 -187938	N	Y	10	10						80			10		100
0 -187939	N	Y	60	60									25	15 SF	100
9 -187940	Y	Y	55	40	15								45		100
9 -187941	Y	Y	55	30	25								45		100
9 -187942	Y	Y	60	25	35								40		100
2 -221390	Y	Y	60	60									25	15 GM	100
2 -221391	Y	Y	55	55									30	15 GM	100
2 -221392	Y	Y	60	60									25	15 GM	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AEROMAR AIR	Ground Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 51%							
		offices-throughout	187904-0	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DCW	65	54	II	$480		$480
		offices-throughout	187905-0	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DHW	70	54	II	$480		$480
		offices-throughout	187901-1	mjp on wrapped cardboard/paper	OMA	20	4 in. O.D.	DCW	25	54	II	$756		$756
			187902-1	mjp on wrapped cardboard/paper	OMA				35	54	II			
			187903-1	mjp on wrapped cardboard/paper	OMA				30	54	II			
		offices-throughout	187906-2	mjp on wrapped cardboard/paper	OMA	20	4 in. O.D.	DHW	40	54	II	$756		$756
			187907-2	mjp on wrapped cardboard/paper	OMA				40	54	II			
			187908-2	mjp on wrapped cardboard/paper	OMA				35	54	II			
									AREA TOTAL			$2,472	$0	$2,472

This area is undergoing renovation at this time. Damaged pipe insulation and mudded joint packings were observed throughout this area. In the event of removal, the pipe insulation can be glove bagged after the drop ceiling is removed.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	AEROMAR AIR	Warehouse Area					AREA AVERAGE % ASB - 18%							
		throughout-along ceiling area	187925-0	corrugated pipe covering	OMA	75	ft. 6 in. O.D.	DR	2	24	III	$1,309		$1,309
		throughout-along ceiling area	187922-5	mjp on corrugate pipe covering	OMA	8	6 in. O.D.	DR	25	24	III	$416		$416
			187923-5	mjp on corrugate pipe covering	OMA				40	24	III			
			187924-5	mjp on corrugate pipe covering	OMA				35	24	III			
									AREA TOTAL			$1,725	$0	$1,725

The pipe insulation is encased in a metal jacket and in good condition.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	AEROMAR AIR	Ground Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 0%							
		men's rest room	187909-0	drop or lay-in panel	OMG	120	sq.ft.		0					
		office & women's rest room	187910-0	drop or lay-in panel	OMG	2584	sq.ft.		0					
									AREA TOTAL			$0	$0	$0

PA 078795

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							TENANT - AEROMAR AIR			TOTAL		$4,197	$0	$4,197

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	AREOMEXICO	Warehouse					AREA AVERAGE % ASB - 20%							
		offices & rest rooms	187937-0	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DCW	5	24	III	$480		$480
		offices & rest rooms	187938-0	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DHW	10	24	III	$480		$480
		offices & rest rooms	187931-7	mjp on wrapped cardboard/paper	OMA	31	4 in. O.D.	DCW	30	24	III	$1,172		$1,172
			187932-7	mjp on wrapped cardboard/paper	OMA				35	24	III			
			187933-7	mjp on wrapped cardboard/paper	OMA				30	24	III			
		offices & rest rooms	187934-8	mjp on wrapped cardboard/paper	OMA	33	4 in. O.D.	DHW	40	24	III	$1,247		$1,247
			187935-8	mjp on wrapped cardboard/paper	OMA				25	24	III			
			187936-8	mjp on wrapped cardboard/paper	OMA				27	24	III			
		There are holes and frayed portions evident in the vibration joint cloth. The exterior duct insulation is in good condition.							AREA TOTAL			$3,379	$0	$3,379
05	AREOMEXICO	Ground Floor-Ceiling					AREA AVERAGE % ASB - 38%							
		down middle of whse-next to ceiling	187925-0	corrugated pipe covering	OMA	220	ft. 6 in. O.D.	DCW	2	24	III	$3,841		$3,841
		west side of warehouse-heater duct	187939-0	vibration joint cloth	OMZ	2	sq.ft.		60	24	III	$36		$36
		above hallway door	221390-10	exterior duct insulation	OMB	164	sq.ft.		60	24	III	$5,278		$5,278
			221391-10	exterior duct insulation	OMB				55	24	III			
			221392-10	exterior duct insulation	OMB				60	24	III			
		down middle of whse-next to ceiling	187922-5	mjp on corrugate pipe covering	OMA	9	6 in. O.D.	DCW	25	24	III	$468		$468
			187923-5	mjp on corrugate pipe covering	OMA				40	24	III			
			187924-5	mjp on corrugate pipe covering	OMA				35	24	III			
		The ceiling tiles in this area are in good condition. At this time, the area is undergoing renovation. Some of the ceiling is missing and should be replaced.							AREA TOTAL			$9,623	$0	$9,623
06	AREOMEXICO	Ground Floor-Ceiling					AREA AVERAGE % ASB - 0%							
		office & rest room	187910-0	drop or lay-in panel	OMG	2700	sq.ft.		0					
									AREA TOTAL			$0	$0	$0

PA 078797

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							TENANT - AREOMEXICO			TOTAL		$13,002	$0	$13,002

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	EVERGREEN	Office Area-Including Rest Rooms					AREA AVERAGE % ASB - 0%							
	throughout		187909-0	drop or lay-in panel	OMG	1230	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
08	EVERGREEN	Warehouse Area					AREA AVERAGE % ASB - 33%							
	east to west-down middle of warehouse		187925-0	corrugated pipe covering	OMA	150	ft. 6 in. O.D.	DCW	2	22	III	$2,619		$2,619
	east to west-down middle of warehouse		187922-5	mjp on corrugate pipe covering	OMA	8	6 in. O.D.	DCW	25	22	III	$416		$416
			187923-5	mjp on corrugate pipe covering	OMA				40	22	III			
			187924-5	mjp on corrugate pipe covering	OMA				35	22	III			
	east to west-down middle of warehouse		187926-6	mjp on non-suspect pipe cover	OMA	7	4 in. O.D.	DCW	65	22	III	$265		$265
	east to west-down middle of warehouse		187926-6	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	DCW	65	22	III	$312		$312
			187927-6	mjp on non-suspect pipe cover	OMA				60	22	III			
			187928-6	mjp on non-suspect pipe cover	OMA				65	22	III			
	The material condition is good, except for the exposed ends on the 6" line insulation (corrugated paper).								AREA TOTAL			$3,612	$0	$3,612
09	EVERGREEN	Warehouse Area-Loading Area					AREA AVERAGE % ASB - 5%							
	south-east-west walls		187915-4	fireproofing	OMC	9608	sq.ft.		6	64	I	$346,945		$346,945
			187916-4	fireproofing	OMC				6	64	I			
			187917-4	fireproofing	OMC				0	64	I			
			187918-4	fireproofing	OMC				6	64	I			
			187919-4	fireproofing	OMC				6	64	I			
			187920-4	fireproofing	OMC				6	64	I			
			187921-4	fireproofing	OMC				6	64	I			
	This fireproofing is located in the cargo shipping/receiving area and is subject to a regular air flow. The material condition is varied, with the poorest condition being on the south wall (debris, broken chunks, etc.).								AREA TOTAL			$346,945	$0	$346,945

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
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JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							TENANT - EVERGREEN			TOTAL		$350,557	$0	$350,557

PA 078800

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
10	ICELAND AIR	Office & Rest Rooms					AREA AVERAGE % ASB - 20%							
		above drop ceiling-throughout	187937-0	wrapped cardboard/paper pipe	OMA	164	ft. 4 in. O.D.	DCW	5	25	III	$1,968		$1,968
		above drop ceiling-throughout	187938-0	wrapped cardboard/paper pipe	OMA	100	ft. 4 in. O.D.	DHW	10	25	III	$1,200		$1,200
		above drop ceiling-throughout	187931-7	mjp on wrapped cardboard/paper	OMA	25	4 in. O.D.	DCW	30	25	III	$945		$945
			187932-7	mjp on wrapped cardboard/paper	OMA				35	25	III			
			187933-7	mjp on wrapped cardboard/paper	OMA				30	25	III			
		above drop ceiling-throughout	187934-8	mjp on wrapped cardboard/paper	OMA	16	4 in. O.D.	DHW	40	25	III	$605		$605
			187935-8	mjp on wrapped cardboard/paper	OMA				25	25	III			
			187936-8	mjp on wrapped cardboard/paper	OMA				27	25	III			
		The pipe insulation is enclosed in a corrugated metal jacket.									AREA TOTAL	$4,718	$0	$4,718
11	ICELAND AIR	Warehouse-Ceiling					AREA AVERAGE % ASB - 19%							
		throughout	187937-0	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DCW	5	22	III	$438		$438
		throughout	187931-7	mjp on wrapped cardboard/paper	OMA	16	4 in. O.D.	DCW	30	22	III	$605		$605
			187932-7	mjp on wrapped cardboard/paper	OMA				35	22	III			
			187933-7	mjp on wrapped cardboard/paper	OMA				30	22	III			
		The pipe insulation is encased in a corrugated metal jacket.									AREA TOTAL	$1,043	$0	$1,043
12	ICELAND AIR	Ground Floor-Ceiling					AREA AVERAGE % ASB - 0%							
		rest room & office	187910-0	drop or lay-in panel	OMG	3522	sq.ft.		0					
											AREA TOTAL	$0	$0	$0
							TENANT - ICELAND AIR		TOTAL			$5,761	$0	$5,761

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

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Constructed: 1956
Inspected: 04/20/88
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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
13	U.S. AIR	Warehouse					AREA AVERAGE % ASB - 24%							
		rear of middle in warehouse	187925-0	corrugated pipe covering	OMA	40	ft. 4 in. O.D.	DCW	2	27	III	$480		$480
		rear of middle in warehouse	187925-0	corrugated pipe covering	OMA	200	ft. 6 in. O.D.	DCW	2	27	III	$3,492		$3,492
		throughout locker room	187929-0	wrapped cardboard/paper pipe	OMA	60	ft. 4 in. O.D.	DCW	40	27	III	$658		$658
		rear of middle in warehouse	187929-0	wrapped cardboard/paper pipe	OMA	65	ft. 6 in. O.D.	DCW	40	27	III	$1,037		$1,037
		throughout locker room	187930-0	wrapped cardboard/paper pipe	OMA	20	ft. 4 in. O.D.	DHW	15	27	III	$240		$240
		rear of middle in warehouse	187906-2	mjp on wrapped cardboard/paper	OMA	3	4 in. O.D.	DCW	40	27	III	$113		$113
			187907-2	mjp on wrapped cardboard/paper	OMA				40	27	III			
			187908-2	mjp on wrapped cardboard/paper	OMA				35	27	III			
		rear of middle in warehouse	187922-5	mjp on corrugate pipe covering	OMA	25	4 in. O.D.	DCW	25	27	III	$945		$945
			187923-5	mjp on corrugate pipe covering	OMA				40	27	III			
			187924-5	mjp on corrugate pipe covering	OMA				35	27	III			
		All the pipe insulation, with the exception of the hot water heater lines, is encased in a corrugated metal jacket.							AREA TOTAL			$6,965	$0	$6,965
14	U.S. AIR	Office Area					AREA AVERAGE % ASB - 0%							
		throughout	187910-0	drop or lay-in panel	OMG	320	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - U.S. AIR		TOTAL			$6,965	$0	$6,965

PA 078802

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 19

Building Number: 082
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 04/20/88
Inspector: BOB DAVIS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
15	PORT AUTHORITY	Throughout Building-Roof Drains-Ceiling					AREA AVERAGE % ASB - 24%							
	throughout		187914-0	corrugated pipe covering	OMA	150	ft. 8 in. O.D.	DR	20	28	III	$2,856		$2,856
	throughout		187911-3	mjp on corrugate pipe covering	OMA	56	8 in. O.D.	DR	25	28	III	$3,626		$3,626
			187912-3	mjp on corrugate pipe covering	OMA				30	28	III			
			187913-3	mjp on corrugate pipe covering	OMA				30	28	III			
		These drain lines are located in the warehouse area (south half) of the building, therefore, they receive a good deal of air flow from bay doors being opened and shut and from forced air heaters, which hang from the ceiling. The suspect corrugated paper is wrapped in a corrugated steel jacket. The material condition is varied from one area to the next, but overall, it is in good condition.							AREA TOTAL			$6,482	$0	$6,482
16	PORT AUTHORITY	Ceiling Area-Space Heaters					AREA AVERAGE % ASB - 57%							
	forced air space heater		187940-9	breecher/exhaust stack packing	OMB	155	sq.ft.		55	109	I	$8,846		$8,846
			187941-9	breecher/exhaust stack packing	OMB				55	109	I			
			187942-9	breecher/exhaust stack packing	OMB				60	109	I			
		These exhaust stacks hang approximately 3' down from the ceiling and are connected to forced air space heaters. In some instances, the heaters have been removed, causing damage to the stack insulation and leaving open ends. There is a good deal of air flow through this area from bay doors being opened and shut and from the heaters.							AREA TOTAL			$8,846	$0	$8,846
17	PORT AUTHORITY	Throughout Building					AREA AVERAGE % ASB - 14%							
	next to ceiling		187937-0	wrapped cardboard/paper pipe	OMA	300	ft. 6 in. O.D.	DCW	5	12	IV	$5,238		$5,238
	next to ceiling		187937-0	wrapped cardboard/paper pipe	OMA	276	ft. 4 in. O.D.	DCW	5	12	IV	$3,312		$3,312
	next to ceiling		187931-7	mjp on wrapped cardboard/paper	OMA	42	6 in. O.D.	DCW	30	12	IV	$2,186		$2,186
	next to ceiling		187931-7	mjp on wrapped cardboard/paper	OMA	30	4 in. O.D.	DCW	30	12	IV	$1,134		$1,134
			187932-7	mjp on wrapped cardboard/paper	OMA				35	12	IV			
			187933-7	mjp on wrapped cardboard/paper	OMA				30	12	IV			
		As with the exposed piping, the insulation is encased in a corrugated metal jacket. The material condition is good, except for isolated areas where open ends and/or contact damage exists.							AREA TOTAL			$11,870	$0	$11,870

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							TENANT - PORT AUTHORITY			TOTAL		$27,198	$0	$27,198
								BUILDING TOTAL				$407,680	$0	$407,680

BUILDING 83
AIR FRANCE CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 83 - AIR FRANCE CARGO BUILDING

Building 83 is a two-story concrete and cinder block structure. It was constructed in 1956 and encompasses 137,883 square feet. Ex. 4 Tenants in this building include Air France, which occupies over 80 percent of the cargo and office space; Federal Express; and El Al Airlines.

Asbestos-containing materials found in this building were spray-applied fireproofing, metal wrap magnesia and corrugated pipe covering with mudded joint packings, tank insulation, mudded joint packing on fiberglass and wrapped cardboard pipe covering, and vinyl floor tiles.

Asbestos-containing spray-applied fireproofing was observed in the first floor cargo area and the second floor office area. The material was in fair condition, with evidence of debris on the top of ceiling panels in the office area. These areas have been classified as Priority Level I. Hall-Kimbrell recommends the materials in these areas be removed as soon as possible.

Asbestos-containing magnesia pipe covering has been identified on the first floor ventilation piping. The material was in relatively good condition at the time of the inspection. This area has been classified as Priority Level II. Hall-Kimbrell recommends the material be repaired as needed and included in an operations and maintenance program until it is removed during a phased abatement.

Asbestos-containing metal wrap magnesia and corrugated pipe coverings, mudded joint packings on fiberglass and wrapped cardboard pipe coverings, tank insulation, and vinyl floor tiles are present throughout the building. The materials were in relatively good condition at the time of the inspection. Nonfriable materials such as vinyl floor tiles present little health hazard unless cut, sawn, sanded, drilled, torn, or altered. The areas containing these materials have been classified as either Priority Level III or IV. Hall-Kimbrell recommends the materials be repaired as needed and included in an operations and maintenance program until removal becomes feasible.

Materials in this building which were determined not to contain asbestos were other types of vinyl floor tiles, spray-applied fireproofing, and drop ceiling panels.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078807

COST ESTIMATE

BUILDING 83 - AIR FRANCE CARGO BUILDING

Removal of all asbestos-containing materials in Priority Levels I and II and replacement with nonasbestos-containing materials. (Priority Level II materials insulate obsolete systems and are in close proximity to Priority Level I materials; therefore, Priority Level I and II materials have been combined in this cost estimate.)

Total Removal/Replacement	$1,789,923
10% Contingency	$178,992
Total Removal/Replacement with Contingency	$1,968,915

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 6.5% of Total Construction Cost:	
6.5% X $1,968,915	$127,979
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 342 8-hour shifts:	
342 X $490	$167,580
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $1,968,915	$39,378
Total Project Estimate Including Professional Fees and Contingency	$2,303,852

PA 078808

COST ESTIMATE

BUILDING 83 - AIR FRANCE CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$39,583
10% Contingency	$3,958
Total Removal/Replacement with Contingency	$43,541

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 15.1% of Total Construction Cost:

15.1% X $43,541	$6,575

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 15 8-hour shifts:

15 X $490	$7,350

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $43,541	$871

Total Project Estimate Including Professional Fees and Contingency	$58,337

PA 078809

COST ESTIMATE

BUILDING 83 - AIR FRANCE CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$123,165
10% Contingency	$12,317
Total Removal/Replacement with Contingency	$135,482

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 10.0% of Total Construction Cost:	
10.0% X $135,482	$13,548
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 33 8-hour shifts:	
33 X $490	$16,170
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $135,482	$2,710
Total Project Estimate Including Professional Fees and Contingency	$167,910

PA 078810

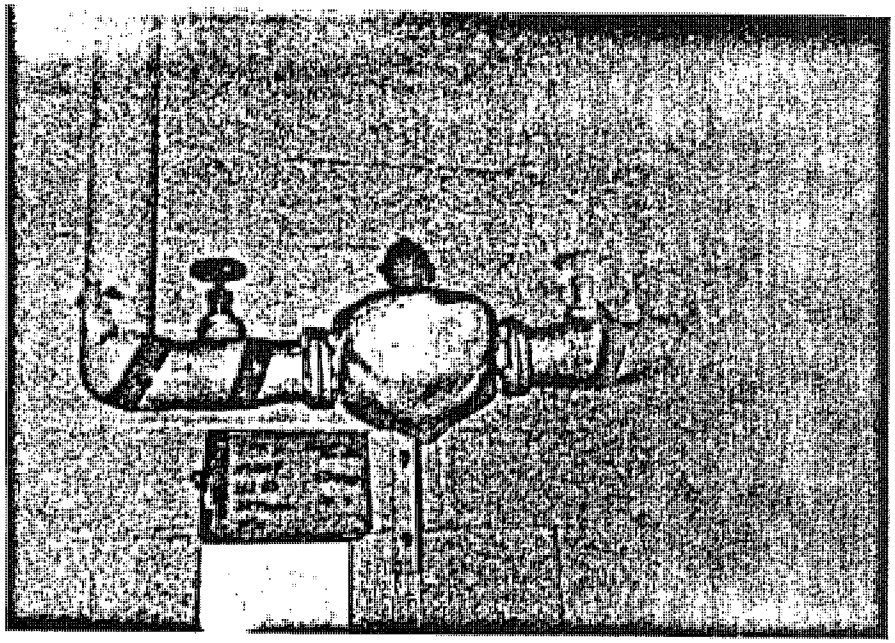
PHOTOGRAPH LOG

BUILDING 83 - EL AL CARGO BUILDING

Picture #	Description
1	Air France tenant space, fireproofing on structural steel with overspray.
2	Air France tenant space, fireproofing on structural steel with overspray.
3	Air France tenant space, exposed pipe insulation.
4	Federal Express tenant space, exposed piping, at ceiling level.
5	Air France tenant space, damaged pipe insulation.

PA 078811

C-LINE #52584
35MM PRINTS



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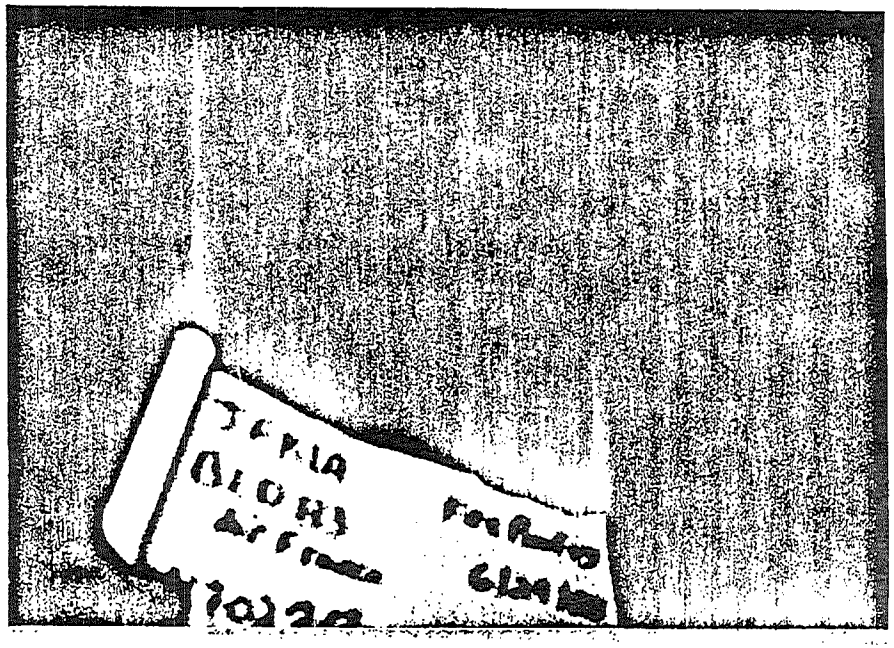
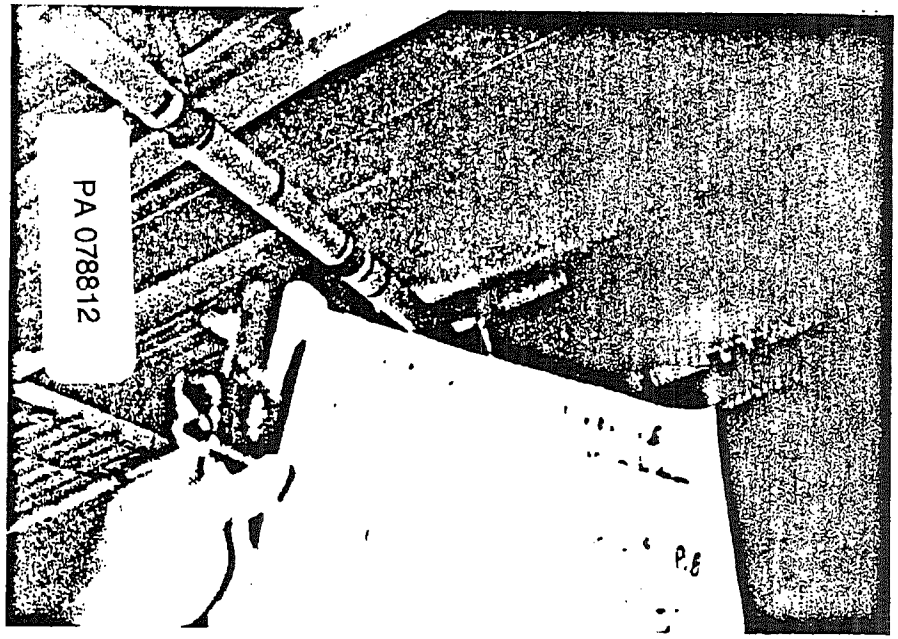
3





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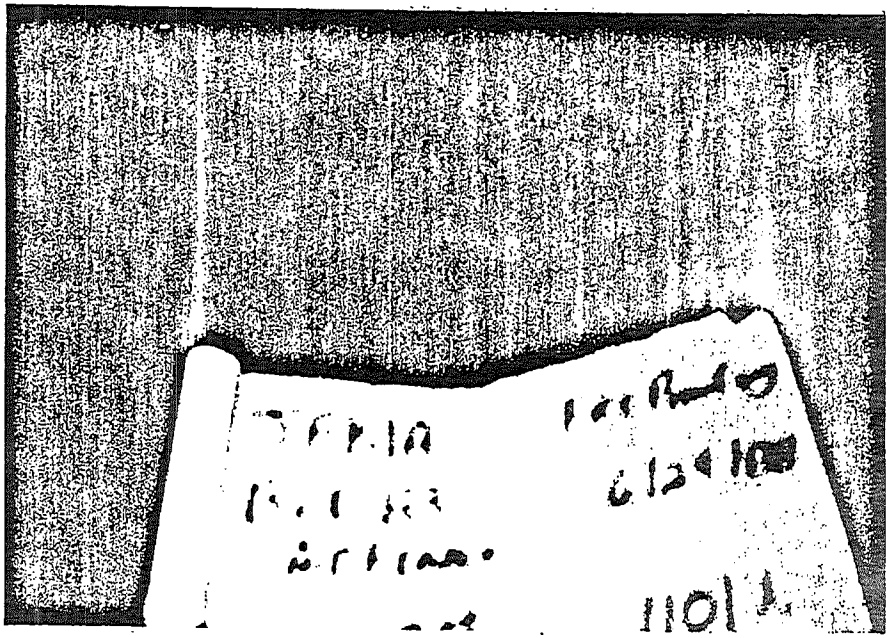

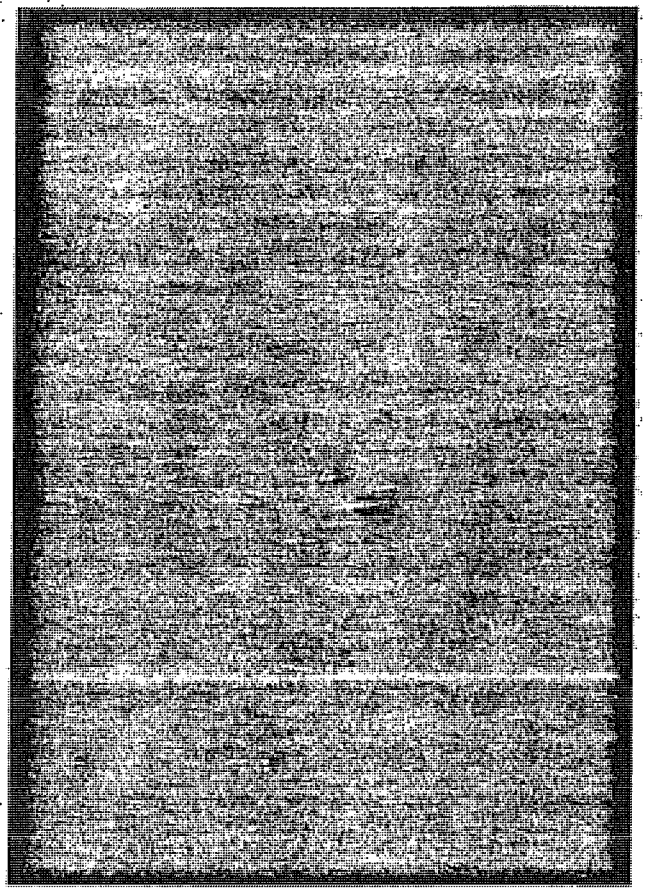

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C-LINE #52584
35MM PRINTS

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 083

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -224467	Y	N	0							30	30		40		100
1 -224468	Y	N	0							30	30		40		100
1 -224469	Y	N	0							30	30		40		100
1 -224470	Y	N	0							30	30		40		100
1 -224471	Y	N	0							20	40		40		100
1 -224472	Y	N	0							20	40		40		100
1 -224473	Y	N	0							20	40		40		100
1 -224474	Y	N	0							20	40		40		100
1 -224475	Y	N	0							30	30		40		100
2 -224476	Y	Y	20	20					10				70		100
2 -224477	Y	Y	20	20					10				70		100
2 -224478	Y	Y	20	20					10				70		100
0 -224479	N	N	0						80				20		100
0 -224480	N	N	0						40	40			20		100
0 -224481	N	Y	2	2									10	68 CAL GM 20	100
3 -224482	Y	N	0							80			20		100
3 -224483	Y	N	0							80			20		100
3 -224484	Y	N	0							80			20		100
4 -224485	Y	Y	10	10					50	10			30		100
4 -224486	Y	Y	20	20					50				30		100
4 -224487	Y	Y	20	20					50				30		100
5 -224488	Y	Y	30	30						60			10		100
5 -224489	Y	Y	40	40						50			10		100
5 -224490	Y	Y	40	40						50			10		100
6 -224491	Y	Y	25	20	5				45				30		100
6 -224492	Y	Y	25	20	5				35				40		100
6 -224493	Y	Y	20	10	10				50				30		100
7 -224494	Y	Y	30	20	10								70		100
7 -224495	Y	Y	40	20	20								60		100
7 -224496	Y	Y	40	20	20								60		100
8 -224497	Y	N	0							20	30		50		100
8 -224498	Y	N	0							20	30		50		100
8 -224499	Y	N	0							20	30		50		100
0 -224500	N	Y	3	3									10	67 CAL GM 20	100
0 -226277	N	Y	85	85									5	10 COT	100
11 -226278	Y	N	0							80			10	10 TAR	100
11 -226279	Y	N	0							78			12	10 TAR	100
11 -226280	Y	Y	2	2						80			8	10 TAR	100
9 -226281	Y	Y	6	6							60		24	10 GM	100
9 -226282	Y	Y	5	5							60		25	10 GM	100
9 -226283	Y	Y	5	5							65		20	10 GM	100
9 -226284	Y	Y	6	6							64		20	10 GM	100
9 -226285	Y	Y	6	6							60		24	10 GM	100
10 -226286	Y	Y	40	20	20				15				25	20 D	100
10 -226287	Y	Y	40	25	15				15				25	20 D	100
10 -226288	Y	Y	40	20	20				15				25	20 D	100
0 -226289	N	N	0						33	33		24	10		100
0 -226290	N	N	0						30	40		20	10		100
0 -226291	N	N	0										34	10 GM CAL 56	100
9 -226292	Y	Y	10	10							60		30		100
9 -226293	Y	Y	6	6							64		30		100
9 -226294	Y	Y	10	10							60		30		100
9 -226295	Y	Y	10	10							60		30		100
9 -226296	Y	Y	6	6							64		30		100
9 -226297	Y	Y	10	10							65		25		100
9 -226298	Y	Y	10	10							65		25		100
9 -226299	Y	Y	10	10							65		25		100
9 -226300	Y	Y	10	10							65		25		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 54

Building Number: 083
Building Name: AIR FRANCE CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/28/88
Inspector: D. Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AIR FRANCE	1st Floor-Office Area-Floor					AREA AVERAGE % ASB -		0%					
	throughout		226291-0	vinyl floor tile	OMZ	2360	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
02	AIR FRANCE	1st Floor-Cargo Area					AREA AVERAGE % ASB -		0%					
	central-I beam support		224497-8	fireproofing	OMC	460	sq.ft.		0					
			224498-8	fireproofing	OMC				0					
			224499-8	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
03	AIR FRANCE	1st Floor-Cargo Area					AREA AVERAGE % ASB -		8%					
	south cargo area-west ceiling		226281-9	fireproofing	OMC	38196	sq.ft.		6	69	I	1,300,574	$255,149	1,555,723
			226282-9	fireproofing	OMC				5	69	I			
			226283-9	fireproofing	OMC				5	69	I			
			226284-9	fireproofing	OMC				6	69	I			
			226285-9	fireproofing	OMC				6	69	I			
			226292-9	fireproofing	OMC				10	69	I			
			226293-9	fireproofing	OMC				6	69	I			
			226294-9	fireproofing	OMC				10	69	I			
			226295-9	fireproofing	OMC				10	69	I			
			226296-9	fireproofing	OMC				6	69	I			
			226297-9	fireproofing	OMC				10	69	I			
			226298-9	fireproofing	OMC				10	69	I			
			226299-9	fireproofing	OMC				10	69	I			
			226300-9	fireproofing	OMC				10	69	I			
									AREA TOTAL			1,300,574	$255,149	1,555,723

The material is sprayed-on I-beams and corrugated decking throughout the south and west cargo area ceiling. Due to the ceiling height above 40', very little contact damage is found.

PA 078815

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 54

Building Number: 083
Building Name: AIR FRANCE CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/28/88
Inspector: D. Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	AIR FRANCE	1st Floor-Cargo Area					AREA AVERAGE % ASB - 30%							
		office area-above ceiling	224488-5	metal wrapped pipe insulation	OMZ	40	ft. 6 in. O.D.	DCW	30	16	IV	$638	$520	$1,158
			224489-5	metal wrapped pipe insulation	OMZ				40	16	IV			
			224490-5	metal wrapped pipe insulation	OMZ				40	16	IV			
		office area-above ceiling tiles	224491-6	mjp on wrapped cardboard/paper	OMA	6	6 in. O.D.	DCW	25	16	IV	$312	$183	$495
			224492-6	mjp on wrapped cardboard/paper	OMA				25	16	IV			
			224493-6	mjp on wrapped cardboard/paper	OMA				20	16	IV			
		The pipe insulation shows no apparent damage. Accessibility is hampered by the location above the ceiling tiles.							AREA TOTAL			$950	$703	$1,653
05	AIR FRANCE	1st Floor					AREA AVERAGE % ASB - 24%							
		mechanical room-east wall	226286-10	mjp on wrapped cardboard/paper	OMA	8	4 in. O.D.	DCW	40	23	III	$302	$168	$470
			226287-10	mjp on wrapped cardboard/paper	OMA				40	23	III			
			226288-10	mjp on wrapped cardboard/paper	OMA				40	23	III			
		mechanical room-east wall	226278-11	metal wrapped pipe insulation	OMZ	60	ft. 4 in. O.D.	DCW	0	23	III	$658	$535	$1,193
			226279-11	metal wrapped pipe insulation	OMZ				0	23	III			
			226280-11	metal wrapped pipe insulation	OMZ				2	23	III			
		center of room	224488-5	metal wrapped pipe insulation	OMZ	440	ft. 6 in. O.D.	DCW	30	23	III	$7,018	$5,716	$12,734
		mechanical room-ceiling area	224488-5	metal wrapped pipe insulation	OMZ	30	ft. 4 in. O.D.	DCW	30	23	III	$329	$268	$597
		mechanical room-restroom	224488-5	metal wrapped pipe insulation	OMZ	80	ft. 6 in. O.D.	DCW	30	23	III	$1,276	$1,039	$2,315
			224489-5	metal wrapped pipe insulation	OMZ				40	23	III			
			224490-5	metal wrapped pipe insulation	OMZ				40	23	III			
		east area-expansion loop	224491-6	mjp on wrapped cardboard/paper	OMA	4	6 in. O.D.	DCW	25	23	III	$208	$122	$330
		exp loop	224491-6	mjp on wrapped cardboard/paper	OMA	4	6 in. O.D.	DCW	25	23	III	$208	$122	$330
			224492-6	mjp on wrapped cardboard/paper	OMA				25	23	III			
			224493-6	mjp on wrapped cardboard/paper	OMA				20	23	III			
		The majority of pipe insulation shows no apparent damage. A very large section of pipe insulation is wrapped in a steel jacket. Activity is high in all areas, but contact damage is rare due to the height of the pipes, approximately 12'.							AREA TOTAL			$9,999	$7,970	$17,969
06	AIR FRANCE	1st Floor-Ventilation Pipes					AREA AVERAGE % ASB - 37%							

PA 078816

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

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Building Name: AIR FRANCE CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/28/88
Inspector: D. Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		throughout ceiling vent pipes	224494-7	pipe covering	OMA	39	ft. 14 in. O.D.		30	50	II	$1,320	$1,044	$2,364
			224495-7	pipe covering	OMA				40	50	II			
			224496-7	pipe covering	OMA				40	50	II			
		The material is located on discontinued ventilation pipes leading to the roof. The insulation has a moderate friability.							AREA TOTAL			$1,320	$1,044	$2,364
07	AIR FRANCE	1st Floor-Office Area Ceiling							AREA AVERAGE % ASB - 0%					
		throughout office ceiling	226289-0	drop or lay-in panel	OMG	2860	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
08	AIR FRANCE	1st Floor-Southwest Corner							AREA AVERAGE % ASB - 85%					
		at the ceiling	226277-0	boiler/tank insulation	OMB	100	sq.ft.		85	38	III	$4,782	$3,830	$8,612
		The tank insulation material was in good condition during the inspection, without visible damage.							AREA TOTAL			$4,782	$3,830	$8,612
09	AIR FRANCE	2nd Floor-Office Area-Floors							AREA AVERAGE % ASB - 3%					
		throughout office	224500-0	vinyl floor tile	OMZ	14437	sq.ft.		3	6	IV	$65,544	$49,663	$115,207
		The material is found throughout the office area with no visible damage.							AREA TOTAL			$65,544	$49,663	$115,207
10	AIR FRANCE	2nd Floor-Offices							AREA AVERAGE % ASB - 8%					
		throughout I-beams-above ceiling	226281-9	fireproofing	OMC	5692	sq.ft.		6	69	I	$193,813	$38,023	$231,836
			226282-9	fireproofing	OMC				5	69	I			
			226283-9	fireproofing	OMC				5	69	I			
			226284-9	fireproofing	OMC				6	69	I			
			226285-9	fireproofing	OMC				6	69	I			
			226292-9	fireproofing	OMC				10	69	I			
			226293-9	fireproofing	OMC				6	69	I			

PA 078817

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			226294-9	fireproofing	OMC				10	69	I			
			226295-9	fireproofing	OMC				10	69	I			
			226296-9	fireproofing	OMC				6	69	I			
			226297-9	fireproofing	OMC				10	69	I			
			226298-9	fireproofing	OMC				10	69	I			
			226299-9	fireproofing	OMC				10	69	I			
			226300-9	fireproofing	OMC				10	69	I			
		The material is sprayed-on I-beams throughout the ceiling area with very little overspray seen. Some evidence of debris is seen on the top side of the ceiling panels. The debris, coupled with the moderate activity makes the office area a top priority.							AREA TOTAL			$193,813	$38,023	$231,836
11	AIR FRANCE	2nd Floor-Office Area-Ceiling							AREA AVERAGE % ASB -		0%			
		throughout office ceiling	226290-0	drop or lay-in panel	OMG	13725	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
									TENANT - AIR FRANCE		TOTAL	1,576,982	$356,382	1,933,364

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 54

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JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/28/88
Inspector: D. Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
12	EL AL	1st Floor-Ceiling					AREA AVERAGE % ASB - 0%							
		throughout office ceiling	224480-0	drop or lay-in panel	OMG	840	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
13	EL AL	1st Floor					AREA AVERAGE % ASB - 20%							
		south hallway, ceiling area	224476-2	mjp on non-suspect pipe cover	OMA	4	6 in. O.D.	DCW	20	20	III	$208	$122	$330
		south hallway, ceiling area	224476-2	mjp on non-suspect pipe cover	OMA	13	4 in. O.D.	DCW	20	20	III	$491	$273	$764
			224477-2	mjp on non-suspect pipe cover	OMA				20	20	III			
			224478-2	mjp on non-suspect pipe cover	OMA				20	20	III			
		The pipe insulation is in good condition. No water or contact damage is apparent.							AREA TOTAL			$699	$395	$1,094
14	EL AL	1st Floor					AREA AVERAGE % ASB - 0%							
		west wall ceilings & I-beams	224467-1	fireproofing	OMC	8914	sq.ft.		0					
			224468-1	fireproofing	OMC				0					
			224469-1	fireproofing	OMC				0					
			224470-1	fireproofing	OMC				0					
			224471-1	fireproofing	OMC				0					
			224472-1	fireproofing	OMC				0					
			224473-1	fireproofing	OMC				0					
			224474-1	fireproofing	OMC				0					
			224475-1	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
15	EL AL	1st Floor-Office-Floor					AREA AVERAGE % ASB - 2%							
		throughout	224481-0	vinyl floor tile	OMZ	790	sq.ft.		2	7	IV	$3,587	$2,718	$6,305

PA 078819

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The floor material is in good condition and is located throughout the office area.							AREA TOTAL			$3,587	$2,718	$6,305
16	EL AL	1st Floor					AREA AVERAGE % ASB - 37%							
		center of room-ceiling	224488-5	metal wrapped pipe insulation	OMZ	80 ft. 6 in. O.D.		DCW	30	23	III	$1,276	$1,039	$2,315
			224489-5	metal wrapped pipe insulation	OMZ				40	23	III			
			224490-5	metal wrapped pipe insulation	OMZ				40	23	III			
		The pipe insulation shows no apparent damage. The majority of pipe is wrapped in a steel jacket. Activity is high in this area, but contact is rare due to the height of the pipes, approximately 12'.							AREA TOTAL			$1,276	$1,039	$2,315
17	EL AL	2nd Floor-Office-Ceiling Area					AREA AVERAGE % ASB - 0%							
		throughout office ceiling	224480-0	drop or lay-in panel	OMG	3560 sq.ft.			0					
									AREA TOTAL			$0	$0	$0
18	EL AL	2nd Floor-Janitor's Room					AREA AVERAGE % ASB - 20%							
		along west wall	224476-2	mjp on non-suspect pipe cover	OMA	6 4 in. O.D.		DCW	20	21	III	$227	$126	$353
			224477-2	mjp on non-suspect pipe cover	OMA				20	21	III			
			224478-2	mjp on non-suspect pipe cover	OMA				20	21	III			
		The material shows no damage.							AREA TOTAL			$227	$126	$353
19	EL AL	2nd Floor					AREA AVERAGE % ASB - 0%							
		throughout ceiling-above tiles	224467-1	fireproofing	OMC	2850 sq.ft.			0					
			224468-1	fireproofing	OMC				0					
			224469-1	fireproofing	OMC				0					
			224470-1	fireproofing	OMC				0					
			224471-1	fireproofing	OMC				0					
			224472-1	fireproofing	OMC				0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			224473-1	fireproofing	OMC				0					
			224474-1	fireproofing	OMC				0					
			224475-1	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
20	EL AL	3rd Floor-Storage Room					AREA AVERAGE % ASB - 20%							
		above stairway & hall	224476-2	mjp on non-suspect pipe cover	OMA		6 4 in. O.D.	DCW	20	38	III	$227	$126	$353
			224477-2	mjp on non-suspect pipe cover	OMA				20	38	III			
			224478-2	mjp on non-suspect pipe cover	OMA				20	38	III			
		The material is in good condition.							AREA TOTAL			$227	$126	$353
21	EL AL	3rd Floor-Storage Room					AREA AVERAGE % ASB - 0%							
		throughout ceiling area	224467-1	fireproofing	OMC		2805 sq.ft.		0					
			224468-1	fireproofing	OMC				0					
			224469-1	fireproofing	OMC				0					
			224470-1	fireproofing	OMC				0					
			224471-1	fireproofing	OMC				0					
			224472-1	fireproofing	OMC				0					
			224473-1	fireproofing	OMC				0					
			224474-1	fireproofing	OMC				0					
			224475-1	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
22	EL AL	3rd Floor-Storage Room					AREA AVERAGE % ASB - 0%							
		storage room-air handler	224479-0	vibration joint cloth	OMZ		3 sq.ft.		0					
									AREA TOTAL			$0	$0	$0

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							TENANT - EL AL			TOTAL		$6,016	$4,404	$10,420

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 54

Building Number: 083 Page 9
Building Name: AIR FRANCE CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/28/88
Inspector: D. Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
23	FED EXPRESS	1st Floor					AREA AVERAGE % ASB - 18%							
	west cargo ceiling area		224482-3	corrugated pipe covering	OMA	40	ft. 6 in. O.D.	DR	0					
			224483-3	corrugated pipe covering	OMA				0					
			224484-3	corrugated pipe covering	OMA				0					
	west cargo ceiling area		224485-4	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	DR	10	23	III	$312	$183	$495
			224486-4	mjp on non-suspect pipe cover	OMA				20	23	III			
			224487-4	mjp on non-suspect pipe cover	OMA				20	23	III			
	center of room-ceiling		224488-5	metal wrapped pipe insulation	OMZ	290	ft. 6 in. O.D.	DCW	30	23	III	$4,625	$3,767	$8,392
			224489-5	metal wrapped pipe insulation	OMZ				40	23	III			
			224490-5	metal wrapped pipe insulation	OMZ				40	23	III			
									AREA TOTAL			$4,937	$3,950	$8,887

The pipe insulation shows no apparent damage. Access to pipes is slightly hampered by material height of 15'.
Activity in the area is extremely high due to its' use as a cargo staging area.

TENANT - FED EXPRESS TOTAL	$4,937	$3,950	$8,887
BUILDING TOTAL	1,587,935	$364,736	1,952,671

PA 078823

BUILDING 84
CARGO BUILDING

COST ESTIMATE

BUILDING 84 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$18,961
10% Contingency	$1,896
Total Removal/Replacement with Contingency	$20,857

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at Minimum Fee:	$6,000
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $20,857	$417
Total Project Estimate Including Professional Fees and Contingency	$34,134

PA 078828

COST ESTIMATE

BUILDING 84 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$62,728
10% Contingency	$6,273
Total Removal/Replacement with Contingency	$69,001

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 12.4% of Total Construction Cost:	
12.4% X $69,001	$8,556
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 20 8-hour shifts:	
20 X $490	$9,800
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $69,001	$1,380
Total Project Estimate Including Professional Fees and Contingency	$88,737

PA 078829

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 084

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -221201	Y	Y	65	65									35		100
1 -221202	Y	Y	70	70									30		100
1 -221203	Y	Y	45	45						20			35		100
1 -221204	Y	Y	70	70									30		100
1 -221205	Y	Y	65	63	2								35		100
1 -221206	Y	Y	65	65									35		100
2 -221207	Y	Y	45	45						45			10		100
2 -221208	Y	Y	10	10						80			10		100
2 -221209	Y	Y	6	6						84			10		100
3 -221210	Y	Y	25	25					55				10	10 D	100
3 -221211	Y	Y	15	15					60				15	10 D	100
3 -221212	Y	Y	25	25					50				15	10 D	100
4 -221213	Y	Y	15	15										75 SFM TAR 10	100
4 -221214	Y	Y	10	10										80 SFM TAR 10	100
4 -221215	Y	Y	10	10										70 SFM TAR 20	100
5 -221216	Y	Y	40	40					50				10		100
5 -221217	Y	Y	30	30					50				20		100
5 -221218	Y	Y	35	35					45				20		100
0 -221219	N	Y	10	10									10	80 GM	100
0 -221220	N	N	0										10	90 CAL	100
0 -221221	N	N	0						35	40		15	10		100
6 -221222	Y	N	0							70			10	20 TAR	100
6 -221223	Y	N	0							65			15	20 TAR	100
6 -221224	Y	N	0							75			15	10 TAR	100
7 -221225	Y	Y	20	20					55				15	10 D	100
7 -221226	Y	Y	25	25					45	10			10	10 D	100
7 -221227	Y	Y	20	20					50				15	15 D	100
8 -221228	Y	Y	15	15						75			10		100
8 -221229	Y	Y	10	10						80			10		100
8 -221230	Y	Y	10	10						75			15		100
9 -221231	Y	N	0						45				20	35 GM	100
9 -221232	Y	N	0						45				20	35 GM	100
9 -221233	Y	N	0						50				25	25 GM	100
0 -221234	N	Y	2	2									10	88 GM	100
0 -221235	N	N	0						40	40		10	10		100
10 -221236	Y	N	0								30		30	40 GM	100
10 -221237	Y	N	0								30		30	40 GM	100
10 -221238	Y	N	0								35		25	40 GM	100
10 -221239	Y	N	0								35		30	35 GM	100
10 -221240	Y	N	0								40		20	40 GM	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 44

Building Number: 084
Building Name: CARGO BUILDING JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/27/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AER CARGO	Cargo Area					AREA AVERAGE % ASB - 35%							
		center of area near ceiling	221216-5	mjp on non-suspect pipe cover	OMA	8 8 in. O.D.		DR	40	23	III	$518	$305	$823
			221217-5	mjp on non-suspect pipe cover	OMA				30	23	III			
			221218-5	mjp on non-suspect pipe cover	OMA				35	23	III			
		This material is in good condition. The material has no apparent water damage and only minor contact damage, which should be repaired as soon as possible, removal is recommended.							AREA TOTAL			$518	$305	$823
02	AER CARGO	Cargo Area					AREA AVERAGE % ASB - 63%							
		at ceiling-near east & west walls	221201-1	breecher/exhaust stack packing	OMB	15 sq.ft.			65	80	I	$856	$690	$1,546
			221202-1	breecher/exhaust stack packing	OMB				70	80	I			
			221203-1	breecher/exhaust stack packing	OMB				45	80	I			
			221204-1	breecher/exhaust stack packing	OMB				70	80	I			
			221205-1	breecher/exhaust stack packing	OMB				65	80	I			
			221206-1	breecher/exhaust stack packing	OMB				65	80	I			
		This material is in fair condition. The material is located on exhaust pipes which have had the space heater units removed. The material is intact, but if it delaminates it will fall to the floor. Since the system is abandoned, removal is recommended.							AREA TOTAL			$856	$690	$1,546
03	AER CARGO	Cargo Area					AREA AVERAGE % ASB - 20%							
		along east wall near ceiling	221207-2	metal wrapped pipe insulation	OMZ	125 ft. 4 in. O.D.		DW	45	18	IV	$1,370	$1,115	$2,485
			221208-2	metal wrapped pipe insulation	OMZ				10	18	IV			
			221209-2	metal wrapped pipe insulation	OMZ				6	18	IV			
		This material is in very good condition. The material is encapsulated in a metal wrap which has prevented contact or water damage.							AREA TOTAL			$1,370	$1,115	$2,485

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	AER CARGO	Cargo Area					AREA AVERAGE % ASB - 22%							
		at ceiling-near northeast corner	221210-3	mjp on corrugate pipe covering	OMA	8	4 in. O.D.	DW	25	23	III	$302	$168	$470
			221211-3	mjp on corrugate pipe covering	OMA				15	23	III			
			221212-3	mjp on corrugate pipe covering	OMA				25	23	III			
		This material is in good condition. The material appears to be slightly water damaged. This should be repaired to prevent extensive damage, removal is recommended.							AREA TOTAL			$302	$168	$470
05	AER CARGO	Office Area					AREA AVERAGE % ASB - 21%							
		in rest room walls	221207-2	metal wrapped pipe insulation	OMZ	50	ft. 4 in. O.D.	DW	45	5	IV	$548	$446	$994
			221208-2	metal wrapped pipe insulation	OMZ				10	5	IV			
			221209-2	metal wrapped pipe insulation	OMZ				6	5	IV			
		in rest room walls	221210-3	mjp on corrugate pipe covering	OMA	30	4 in. O.D.	DW	25	5	IV	$1,134	$630	$1,764
			221211-3	mjp on corrugate pipe covering	OMA				15	5	IV			
			221212-3	mjp on corrugate pipe covering	OMA				25	5	IV			
		This material could not be accessed to be inspected. The quantities for this material were estimated, since available blueprints were incomplete.							AREA TOTAL			$1,682	$1,076	$2,758
06	AER CARGO	Cargo Area-Floor					AREA AVERAGE % ASB - 10%							
		near southwest corner	221219-0	vinyl floor tile	OMZ	350	sq.ft.		10	7	IV	$1,589	$1,204	$2,793
		This material is in bad condition. It has undergone severe contact damage from fork truck traffic. The material is badly decomposed and can be seen as debris. This material should be repaired as soon as possible, removal is recommended.							AREA TOTAL			$1,589	$1,204	$2,793
07	AER CARGO	Cargo Area-Ceiling					AREA AVERAGE % ASB - 0%							
		near north walls	221236-10	fireproofing	OMC	800	sq.ft.		0					
			221237-10	fireproofing	OMC				0					
			221238-10	fireproofing	OMC				0					

PA 078832

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 44

Building Number: 084
Building Name: CARGO BUILDING
JFK AIRPORT
Building Type: CARGO
Constructed: 1956
Inspected: 06/27/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			221239-10	fireproofing	OMC				0					
			221240-10	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
08	AER CARGO	Office Area-Floor					AREA AVERAGE % ASB -		0%					
	throughout		221220-0	vinyl floor tile	OMZ	2700 sq.ft.			0					
								AREA TOTAL				$0	$0	$0
09	AER CARGO	Office Area-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		221221-0	drop or lay-in panel	OMG	2700 sq.ft.			0					
								AREA TOTAL				$0	$0	$0
							TENANT - AER CARGO		TOTAL			$6,317	$4,558	$10,875

PA 078833

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
10	DELTA CARGO	Cargo Area-Ceiling					AREA AVERAGE % ASB - 0%							
		north of office area	221236-10	fireproofing	OMC	600	sq.ft.		0					
			221237-10	fireproofing	OMC				0					
			221238-10	fireproofing	OMC				0					
			221239-10	fireproofing	OMC				0					
			221240-10	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
11	DELTA CARGO	Cargo Area					AREA AVERAGE % ASB - 0%							
		north of office area near ceiling	221222-6	wrapped cardboard/paper pipe	OMA	15	ft. 8 in. O.D.	DR	0					
			221223-6	wrapped cardboard/paper pipe	OMA				0					
			221224-6	wrapped cardboard/paper pipe	OMA				0					
									AREA TOTAL			$0	$0	$0
12	DELTA CARGO	Cargo Area					AREA AVERAGE % ASB - 22%							
		north of office near ceiling	221225-7	mjp on wrapped cardboard/paper	OMA	4	8 in. O.D.	DR	20	84	I	$259	$152	$411
			221226-7	mjp on wrapped cardboard/paper	OMA				25	84	I			
			221227-7	mjp on wrapped cardboard/paper	OMA				20	84	I			
		This material is in poor condition. The material has severe contact damage and is degraded and falling off the substrate; removal is recommended.							AREA TOTAL			$259	$152	$411
13	DELTA CARGO	Cargo Area					AREA AVERAGE % ASB - 35%							
		far north & far south near ceiling	221216-5	mjp on non-suspect pipe cover	OMA	6	8 in. O.D.	DR	40	22	III	$389	$228	$617
			221217-5	mjp on non-suspect pipe cover	OMA				30	22	III			
			221218-5	mjp on non-suspect pipe cover	OMA				35	22	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in good condition. There is only minimal contact and water damage.							AREA TOTAL			$389	$228	$617
14	DELTA CARGO	Cargo Area					AREA AVERAGE % ASB - 12%							
		along east wall near ceiling	221228-8	metal wrapped pipe insulation	OMZ	160 ft. 4 in. O.D.		DW	15	18	IV	$1,754	$1,427	$3,181
			221229-8	metal wrapped pipe insulation	OMZ				10	18	IV			
			221230-8	metal wrapped pipe insulation	OMZ				10	18	IV			
		This material is in very good condition. The metal wrap encapsulation has protected the material from contact and water damage.							AREA TOTAL			$1,754	$1,427	$3,181
15	DELTA CARGO	Office Area-Floor					AREA AVERAGE % ASB - 2%							
		throughout	221234-0	vinyl floor tile	OMZ	3100 sq.ft.			2	6	IV	$14,074	$10,664	$24,738
		This material is in good condition. The material does show some minor wear. This area is frequently accessed.							AREA TOTAL			$14,074	$10,664	$24,738
16	DELTA CARGO	Office Area-Ceiling					AREA AVERAGE % ASB - 0%							
		throughout	221235-0	drop or lay-in panel	OMG	3100 sq.ft.			0					
									AREA TOTAL			$0	$0	$0
7	DELTA CARGO	Office Area-Men's Rest Room					AREA AVERAGE % ASB - 12%							
		in northwest corner	221228-8	metal wrapped pipe insulation	OMZ	25 ft. 4 in. O.D.		DW	15	18	IV	$274	$223	$497
			221229-8	metal wrapped pipe insulation	OMZ				10	18	IV			
			221230-8	metal wrapped pipe insulation	OMZ				10	18	IV			
		This material is in very good condition. The encapsulant has minimized any contact or water damage.							AREA TOTAL			$274	$223	$497

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
18	DELTA CARGO	Office Area-Men's Rest Room					AREA AVERAGE % ASB - 0%							
		in northwest corner	221231-9	mjp on corrugate pipe covering	OMA	25	4 in. O.D.	DW	0					
			221232-9	mjp on corrugate pipe covering	OMA				0					
			221233-9	mjp on corrugate pipe covering	OMA									
									AREA TOTAL			$0	$0	$0
19	DELTA CARGO	Office Area					AREA AVERAGE % ASB - 6%							
		in rest room walls	221228-8	metal wrapped pipe insulation	OMZ	50	ft. 4 in. O.D.	DW	15	5	IV	$548	$446	$994
			221229-8	metal wrapped pipe insulation	OMZ				10	5	IV			
			221230-8	metal wrapped pipe insulation	OMZ				10	5	IV			
		in rest room walls	221231-9	mjp on corrugate pipe covering	OMA	30	4 in. O.D.	DW	0					
			221232-9	mjp on corrugate pipe covering	OMA				0					
			221233-9	mjp on corrugate pipe covering	OMA									
									AREA TOTAL			$548	$446	$994

This material could not be accessed for inspection. The available blueprints were incomplete, so quantities were estimated.

	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
TENANT - DELTA CARGO TOTAL	$17,298	$13,140	$30,438

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
20	EL AL CARGO	Cargo Area-Cage-Floor					AREA AVERAGE % ASB - 10%							
		southwest corner	221219-0	vinyl floor tile	OMZ	600	sq.ft.		10	7	IV	$2,724	$2,064	$4,788
		This material is in bad condition. The material has suffered severe contact damage. The area is frequently accessed by fork trucks which are causing the damage.							AREA TOTAL			$2,724	$2,064	$4,788
21	EL AL CARGO	Cargo Area-Ceiling					AREA AVERAGE % ASB - 0%							
		north of office area	221236-10	fireproofing	OMC	1250	sq.ft.		0					
			221237-10	fireproofing	OMC				0					
			221238-10	fireproofing	OMC				0					
			221239-10	fireproofing	OMC				0					
			221240-10	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
22	EL AL CARGO	Cargo Area					AREA AVERAGE % ASB - 35%							
		center of building-throughout	221216-5	mjp on non-suspect pipe cover	OMA	20 8	in. O.D.	DR	40	28	III	$1,295	$761	$2,056
			221217-5	mjp on non-suspect pipe cover	OMA				30	28	III			
			221218-5	mjp on non-suspect pipe cover	OMA				35	28	III			
		This material is in fair condition. The material has sustained contact damage from the movement of cargo; removal is recommended.							AREA TOTAL			$1,295	$761	$2,056
23	EL AL CARGO	Cargo Area					AREA AVERAGE % ASB - 20%							
		running N to S along E wall near ceiling	221207-2	metal wrapped pipe insulation	OMZ	400 ft. 4	in. O.D.	DW	45	19	IV	$4,384	$3,568	$7,952
			221208-2	metal wrapped pipe insulation	OMZ				10	19	IV			
			221209-2	metal wrapped pipe insulation	OMZ				6	19	IV			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in very good condition. The material is encapsulated in a metal wrap. This has kept the material free of damage.							AREA TOTAL			$4,384	$3,568	$7,952
24	EL AL CARGO	Cargo Area					AREA AVERAGE % ASB - 22%							
		south of office along E wall-at ceiling	221210-3	mjp on corrugate pipe covering	OMA	30 4 in. O.D.		DW	25	23	III	$1,134	$630	$1,764
			221211-3	mjp on corrugate pipe covering	OMA				15	23	III			
			221212-3	mjp on corrugate pipe covering	OMA				25	23	III			
		This material is in good condition. The amount of contact and water damage to the material is minor. This material should be maintained and monitored.							AREA TOTAL			$1,134	$630	$1,764
25	EL AL CARGO	Cargo Area-Cage					AREA AVERAGE % ASB - 12%							
		center of area at ceiling	221213-4	metal wrapped pipe insulation	OMZ	10 ft. 4 in. O.D.		DW	15	26	III	$110	$89	$199
			221214-4	metal wrapped pipe insulation	OMZ				10	26	III			
			221215-4	metal wrapped pipe insulation	OMZ				10	26	III			
		This material is in fair condition. The material is wound onto the pipe, but is beginning to unravel in places; removal is recommended.							AREA TOTAL			$110	$89	$199
26	EL AL CARGO	Cargo Area-Space Heaters					AREA AVERAGE % ASB - 63%							
		on pipe going through ceiling-throughout	221201-1	breecher/exhaust stack packing	OMB	165 sq.ft.			65	80	I	$9,417	$7,587	$17,004
			221202-1	breecher/exhaust stack packing	OMB				70	80	I			
			221203-1	breecher/exhaust stack packing	OMB				45	80	I			
			221204-1	breecher/exhaust stack packing	OMB				70	80	I			
			221205-1	breecher/exhaust stack packing	OMB				65	80	I			
			221206-1	breecher/exhaust stack packing	OMB				65	80	I			
		This material is in poor condition. The material is found on the space heater exhaust. Some of the heating units have been removed, but the exhaust pipe and insulation remain. The suspect material on these abandoned units should be removed. Others have been damaged and need to be repaired.							AREA TOTAL			$9,417	$7,587	$17,004

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
27	EL AL CARGO	Office Area-Floor					AREA AVERAGE % ASB - 0%							
	throughout		221220-0	vinyl floor tile	OMZ	2500	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
28	EL AL CARGO	Office Area-Ceiling					AREA AVERAGE % ASB - 0%							
	throughout		221221-0	drop or lay-in panel	OMG	2500	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
29	EL AL CARGO	Office Area					AREA AVERAGE % ASB - 21%							
	in rest room walls		221207-2	metal wrapped pipe insulation	OMZ	50	ft. 4 in. O.D.	DW	45	5	IV	$548	$446	$994
			221208-2	metal wrapped pipe insulation	OMZ				10	5	IV			
			221209-2	metal wrapped pipe insulation	OMZ				6	5	IV			
	in rest room walls		221210-3	mjp on corrugate pipe covering	OMA	30	4 in. O.D.	DW	25	5	IV	$1,134	$630	$1,764
			221211-3	mjp on corrugate pipe covering	OMA				15	5	IV			
			221212-3	mjp on corrugate pipe covering	OMA				25	5	IV			
	This material could not be accessed to be inspected. The available blueprints were incomplete, so the quantities were estimated.								AREA TOTAL			$1,682	$1,076	$2,758
30	EL AL CARGO	Supply Room					AREA AVERAGE % ASB - 20%							
	north walls & ceiling		221207-2	metal wrapped pipe insulation	OMZ	75	ft. 4 in. O.D.	DW	45	21	III	$822	$669	$1,491
			221208-2	metal wrapped pipe insulation	OMZ				10	21	III			
			221209-2	metal wrapped pipe insulation	OMZ				6	21	III			
	This material is in good condition. A few ends of the material are exposed and slightly damaged. This should be repaired as soon as possible to prevent further damage, removal is recommended.								AREA TOTAL			$822	$669	$1,491

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
31	EL AL CARGO	Supply Room					AREA AVERAGE % ASB - 22%							
		north wall & ceiling	221210-3	mjp on corrugate pipe covering	OMA	15	4 in. O.D.	DW	25	23	III	$567	$315	$882
			221211-3	mjp on corrugate pipe covering	OMA				15	23	III			
			221212-3	mjp on corrugate pipe covering	OMA				25	23	III			
		This material is in good condition. Minimal contact and water damage are present.							AREA TOTAL			$567	$315	$882
32	EL AL CARGO	Vault Room					AREA AVERAGE % ASB - 20%							
		at ceiling-along south wall	221207-2	metal wrapped pipe insulation	OMZ	45	ft. 4 in. O.D.	DW	45	16	IV	$493	$401	$894
			221208-2	metal wrapped pipe insulation	OMZ				10	16	IV			
			221209-2	metal wrapped pipe insulation	OMZ				6	16	IV			
		This material is undamaged and in very good condition. The material is encapsulated in a metal wrap.							AREA TOTAL			$493	$401	$894
33	EL AL CARGO	Vault Room					AREA AVERAGE % ASB - 22%							
		at ceiling-along south wall	221210-3	mjp on corrugate pipe covering	OMA	10	4 in. O.D.	DW	25	22	III	$378	$210	$588
			221211-3	mjp on corrugate pipe covering	OMA				15	22	III			
			221212-3	mjp on corrugate pipe covering	OMA				25	22	III			
		This material is in good condition. The material has very minor contact and water damage.							AREA TOTAL			$378	$210	$588
							TENANT - EL AL CARGO		TOTAL			$23,006	$17,370	$40,376
									BUILDING TOTAL			$46,621	$35,068	$81,689

BUILDING 86
CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 86 - CARGO BUILDING

Cargo Building 86 is a one-story, cargo warehouse which was constructed in 1961. The facility is occupied by Air India and Pakistan International Airlines. Ex. 4 The building was constructed with concrete blocks and structural steel.

Building materials confirmed by laboratory analysis to contain asbestos were mudded joint packing on fiberglass-insulated piping, vinyl floor tiles, and roofing tar.

Asbestos-containing mudded joint packing on fiberglass-insulated piping was found throughout Air India's cargo area and janitor's closet. The packing was in poor condition and had numerous areas of contact and water damage. This area is classified as Priority Level I. It is recommended the packing be removed as soon as possible.

Mudded joint packing on nonsuspect pipe insulation was found in the Pakistan Airlines cargo area and lunch room. The material was in fair condition and had localized areas of contact and water damage. These areas are classified as Priority Level II. It is recommended the damaged areas be repaired as needed and the material included in an operations and maintenance program until it can be removed during a phased abatement.

Asbestos-containing mudded joint packing, vinyl floor tiles, and roofing tar were observed throughout the structure, as listed in the spreadsheets. These materials were in fair to good overall condition and were generally less accessible than the other materials found. These areas are classified Priority Levels III and IV. The vinyl floor tiles and roofing tar are nonfriable and present little health hazard unless sawn, sanded, drilled, or disturbed in any way which would cause fibers to become airborne. It is recommended these materials be included in an operations and maintenance program until they can be removed during a phased abatement.

Materials which were sampled and determined not to contain asbestos were acoustical ceiling tiles, lay-in ceiling panels, fireproofing, and specific vinyl floor tiles.

Please consult the spreadsheets for material locations and quantities, and specific area comments.

PA 078844

COST ESTIMATE

BUILDING 86 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Levels I and II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$5,010
10% Contingency	$501
Total Removal/Replacement with Contingency	$5,511

The total construction cost for materials in these Priority Levels was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 078845

COST ESTIMATE

BUILDING 86 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$441,320
10% Contingency	$44,132
Total Removal/Replacement with Contingency	$485,452

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 7.3% of Total Construction Cost:

7.3% X $485,452	$35,438

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 92 8-hour shifts:

92 X $490	$45,080

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $485,452	$9,709

Total Project Estimate Including Professional Fees and Contingency	$575,679

PA 078846

COST ESTIMATE

BUILDING 86 - CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$115,660
10% Contingency	$11,566
Total Removal/Replacement with Contingency	$127,226

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 10.2% of Total Construction Cost:	
10.2% X $127,226	$12,977
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 32 8-hour shifts:	
32 X $490	$15,680
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $127,226	$2,545
Total Project Estimate Including Professional Fees and Contingency	$158,428

PA 078847

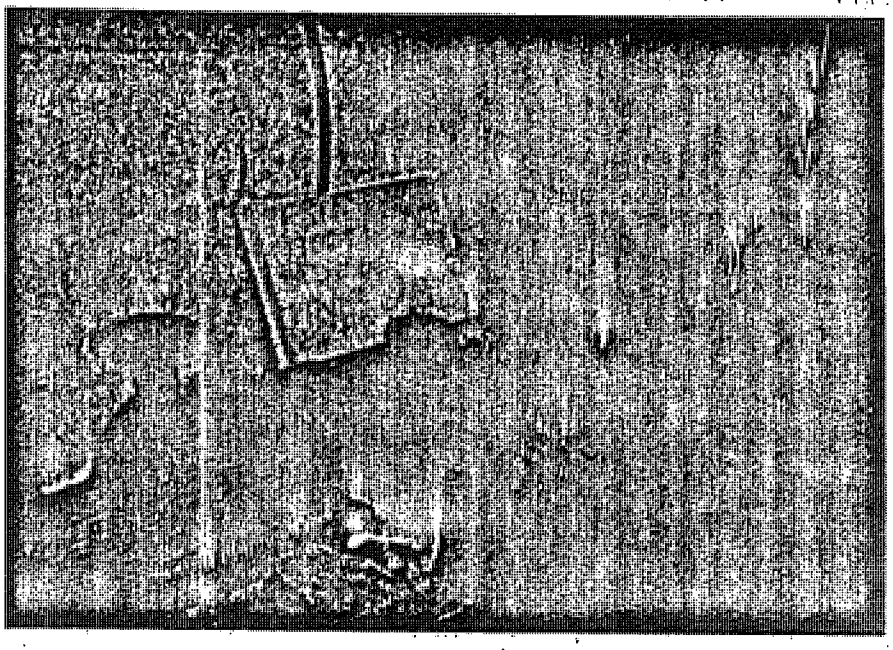
PHOTOGRAPH LOG

BUILDING 86 - CARGO BUILDING

Picture #	Description
1	Ground Floor, Mechanical Room, exposed pipe insulation.

PA 078848

C-LINE #52584
35MM PRINTS



PA 078849

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 086

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER			TOTAL
0 -221301	N	N	0						30	40			10	20	CAL		100
0 -221302	Y	N	6	6									14	70	CAL GM	10	100
0 -221303	N	N	0						30	40		20	10				100
0 -221304	N	N	0						30	40		20	10				100
0 -221305	N	Y	6	6									24	60	CAL GM	10	100
0 -221306	N	N	0										20	70	CAL GM	10	100
1 -221307	Y	Y	20	20					40				30	10	GM		100
1 -221308	Y	Y	20	20					40				30	10	GM		100
1 -221309	Y	Y	20	20					40				30	10	GM		100
2 -221310	Y	Y	10	10					40				40	10	GM		100
2 -221311	Y	Y	10	10					50				30	10	GM		100
2 -221312	Y	Y	10	10					50				30	10	GM		100
3 -221313	Y	N	0							40			40	20	GM		100
3 -221314	Y	N	0							20			40	40	GM		100
3 -221315	Y	N	0							20			40	40	GM		100
4 -221316	Y	Y	10	10									10	80	TAR		100
4 -221317	Y	N	0										20	80	TAR		100
4 -221318	Y	N	0										20	80	TAR		100

PA 078850

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 57

Building Number: 086
Building Name: CARGO BUILDING #86
JFK AIRPORT
Building Type: CARGO
Constructed: 1961
Inspected: 07/06/88
Inspector: L. GIDEON

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AIR INDIA	Flooring					AREA AVERAGE % ASB - 4%							
		customers services office-throughout	221302-0	vinyl floor tile	OMZ	672	sq.ft.		6	6	IV	$3,051	$2,312	$5,363
		lunch room-throughout	221302-0	vinyl floor tile	OMZ	450	sq.ft.		6	6	IV	$2,043	$1,548	$3,591
		sales department-throughout	221302-0	vinyl floor tile	OMZ	1120	sq.ft.		6	6	IV	$5,085	$3,853	$8,938
		front offices-throughout	221306-0	vinyl floor tile	OMZ	1700	sq.ft.		0					
		security office-throughout	221306-0	vinyl floor tile	OMZ	225	sq.ft.		0					
		These tiles are in fair condition, with some cracked areas present.							AREA TOTAL			$10,179	$7,713	$17,892
02	AIR INDIA	Ceiling					AREA AVERAGE % ASB - 0%							
		sales department office-throughout	221301-0	acoustical tile	OMG	1120	sq.ft.		0					
		customer service office-throughout	221301-0	acoustical tile	OMG	672	sq.ft.		0					
		lunch room-throughout	221301-0	acoustical tile	OMG	450	sq.ft.		0					
		front entrance-office area-throughout	221304-0	drop or lay-in panel	OMG	1700	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
03	AIR INDIA	Cargo Area					AREA AVERAGE % ASB - 15%							
		at south wall	221307-1	mjp on non-suspect pipe cover	OMA	2	4 in. O.D.	DW	20	63	I	$76	$42	$118
		janitor's closet	221307-1	mjp on non-suspect pipe cover	OMA	3	4 in. O.D.	DW	20	63	I	$113	$63	$176
			221308-1	mjp on non-suspect pipe cover	OMA				20	63	I			
			221309-1	mjp on non-suspect pipe cover	OMA				20	63	I			
		near ceiling	221310-2	mjp on non-suspect pipe cover	OMA	10	10 in. O.D.	DR	10	63	I	$842	$526	$1,368
			221311-2	mjp on non-suspect pipe cover	OMA				10	63	I			
			221312-2	mjp on non-suspect pipe cover	OMA				10	63	I			
		The exposed piping in this area is in poor condition with damage present due to contact and water exposure. Piping is present near ceiling level.							AREA TOTAL			$1,031	$631	$1,662

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	AIR INDIA	Mechanical Room					AREA AVERAGE % ASB - 20%							
		near s wall from water main-throughout	221307-1	mjp on non-suspect pipe cover	OMA		17 4 in. O.D.	DW	20	24	III	$643	$357	$1,000
			221308-1	mjp on non-suspect pipe cover	OMA				20	24	III			
			221309-1	mjp on non-suspect pipe cover	OMA				20	24	III			
									AREA TOTAL			$643	$357	$1,000

Exposed mudded pipe packings are in good condition with no notable damage visible. Piping begins from domestic water main, which enters the room in the southwest corner and extends up near the ceiling and out of the room through the wall.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
05	AIR INDIA	Rest Rooms					AREA AVERAGE % ASB - 20%							
		inside walls-leading to restroom fixture	221307-1	mjp on non-suspect pipe cover	OMA		25 4 in. O.D.	DW	20	5	IV	$945	$525	$1,470
			221308-1	mjp on non-suspect pipe cover	OMA				20	5	IV			
			221309-1	mjp on non-suspect pipe cover	OMA				20	5	IV			
									AREA TOTAL			$945	$525	$1,470

The piping runs inside of concrete block walls and was inaccessible The quantities given are estimates due to the unavailability of 'as built' drawings.

TENANT - AIR INDIA	TOTAL	$12,798	$9,226	$22,024

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 57

Building Number: 086
Building Name: CARGO BUILDING #86
JFK AIRPORT
Building Type: CARGO
Constructed: 1961
Inspected: 07/06/88
Inspector: L. GIDEON

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
06	PIA	North Cargo Bay					AREA AVERAGE % ASB - 0%							
		on large I-beam	221313-3	fireproofing	OMC	375	sq.ft.		0					
			221314-3	fireproofing	OMC				0					
			221315-3	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
07	PIA	North Cargo Bay-Flooring					AREA AVERAGE % ASB - 6%							
		behind lean to area	221305-0	vinyl floor tile	OMZ	1000	sq.ft.		6	7	IV	$4,540	$3,440	$7,980
		This area is used as a trafficway for forklifts, which have caused much damage to the vinyl floor tiles.						AREA TOTAL				$4,540	$3,440	$7,980
08	PIA	Cargo Bays					AREA AVERAGE % ASB - 15%							
		lunch room- at wall	221307-1	mjp on non-suspect pipe cover	OMA	5	4 in. O.D.	DW	20	53	II	$189	$105	$294
		along ceiling-throughout	221307-1	mjp on non-suspect pipe cover	OMA	24	4 in. O.D.	DW	20	53	II	$907	$504	$1,411
			221308-1	mjp on non-suspect pipe cover	OMA				20	53	II			
			221309-1	mjp on non-suspect pipe cover	OMA				20	53	II			
		near ceiling-throughout	221310-2	mjp on non-suspect pipe cover	OMA	12	10 in. O.D.	DR	10	53	II	$1,011	$632	$1,643
			221311-2	mjp on non-suspect pipe cover	OMA				10	53	II			
			221312-2	mjp on non-suspect pipe cover	OMA				10	53	II			
		The piping is in fair condition, with localized areas of contact and water damage present.						AREA TOTAL				$2,107	$1,241	$3,348
09	PIA	North Office Rest Rooms					AREA AVERAGE % ASB - 20%							
		above semi-permanent ceiling	221307-1	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	DW	20	8	IV	$454	$252	$706
			221308-1	mjp on non-suspect pipe cover	OMA				20	8	IV			
			221309-1	mjp on non-suspect pipe cover	OMA				20	8	IV			
		Piping enters the rooms from the west wall and goes into the walls and to fixtures. Quantities given are estimates based on inspection, due to unavailibility of 'as built' drawings.						AREA TOTAL				$454	$252	$706

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
10	PIA	North Office Area-Flooring					AREA AVERAGE % ASB -		6%					
		throughout	221302-0	vinyl floor tile	OMZ	4800	sq.ft.		6	6	IV	$21,792	$16,512	$38,304
		This area is not in use at this time and much dust and trash is present on the floor.							AREA TOTAL			$21,792	$16,512	$38,304
11	PIA	North Office Area-Ceiling					AREA AVERAGE % ASB -		0%					
		southwest corner	221301-0	acoustical tile	OMG	196	sq.ft.		0					
		offices-throughout	221303-0	drop or lay-in panel	OMG	1932	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
12	PIA	South Office Area-Flooring					AREA AVERAGE % ASB -		6%					
		office areas-throughout	221302-0	vinyl floor tile	OMZ	4860	sq.ft.		6	6	IV	$22,064	$16,718	$38,782
		inspection area & various offices	221305-0	vinyl floor tile	OMZ	840	sq.ft.		6	6	IV	$3,814	$2,890	$6,704
		This area is not in use at this time, with significant damage present to many panels.							AREA TOTAL			$25,878	$19,608	$45,486
13	PIA	South Office Area-Ceiling					AREA AVERAGE % ASB -		0%					
		throughout	221303-0	drop or lay-in panel	OMG	5700	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
14	PIA	Office Lean-to					AREA AVERAGE % ASB -		20%					
		inside walls-leading to fixtures	221307-1	mjp on non-suspect pipe cover	OMA	65	4 in. O.D.	DW	20	6	IV	$2,457	$1,365	$3,822
			221308-1	mjp on non-suspect pipe cover	OMA				20	6	IV			
			221309-1	mjp on non-suspect pipe cover	OMA				20	6	IV			

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 57

Building Number: 086
Building Name: CARGO BUILDING #86
JFK AIRPORT
Building Type: CARGO
Constructed: 1961
Inspected: 07/06/88
Inspector: L. GIDEON

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		Piping runs inside concrete block walls to fixtures. No access could be gained to these areas and quantities given are estimates based on inspection, with no 'as built' drawings available.							AREA TOTAL			$2,457	$1,365	$3,822
							TENANT - PIA		TOTAL			$57,228	$42,418	$99,646

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 57

Building Number: 086
Building Name: CARGO BUILDING #86
JFK AIRPORT
Building Type: CARGO
Constructed: 1961
Inspected: 07/06/88
Inspector: L. GIDEON

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
15	AIR INDIA/PIA	Roof					AREA AVERAGE % ASB - 3%							
		throughout	221316-4	roofing tar paper/roofing felt	OMZ	64000	sq.ft.		10	23	III	$264,320	$176,000	$440,320
			221317-4	roofing tar paper/roofing felt	OMZ				0	23	III			
			221318-4	roofing tar paper/roofing felt	OMZ				0	23	III			
		The roofing material is in fair condition with no extensive or significant damage present.									AREA TOTAL	$264,320	$176,000	$440,320
							TENANT - AIR INDIA/PIA				TOTAL	$264,320	$176,000	$440,320
											BUILDING TOTAL	$334,346	$227,644	$561,990

PA 078854

BUILDING 87
KLM-AER LINGUS CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 87 - KLM-AER LINGUS CARGO BUILDING

The KLM-Aer Lingus Cargo Building was constructed in 1962. The facility was constructed with concrete block and structural steel, and has a built-up tar and gravel roof. It [illegible] Ex. 4 [illegible]

Aer Lingus, Air Jamaica, Ewatoriana, Olympic, El Al, and KLM Cargo lease areas in this building.

Building materials determined by laboratory analysis to contain asbestos include mudded joint packing on fiberglass-insulated piping systems, exterior duct insulation, vinyl floor tiles, and corrugated pipe covering.

Asbestos-containing mudded joint packing on nonsuspect drain pipe insulation was found in the Aer Lingus cargo area. The packing was severely damaged and debris was observed atop cargo stored below the material. Damaged exterior duct insulation was observed in the Aer Lingus furnace room. The material was delaminating from the duct work and resulted in debris. These areas are classified as Priority Level I. It is recommended the materials be removed as soon as possible.

Asbestos-containing mudded joint packing was observed in KLM's first floor sprinkler valve room. The material was extensively damaged with debris resulting. This area has been classified as Priority Level II. It is recommended the debris be removed and the damaged areas repaired. The material should then be included in an operations and maintenance program until removal during a phased abatement.

Asbestos-containing mudded joint packing on nonsuspect domestic water pipe insulation was found in the Aer Lingus cargo area. Corrugated pipe covering was observed in KLM's second floor south fan room. These areas were in good condition and have been classified as Priority Level III. It is recommended the materials be included in an operations and maintenance program until they are removed during a phased abatement.

Asbestos-containing mudded joint packing on fiberglass-insulated piping systems was observed in a pipe chase in the Aer Lingus area. The material could be partially accessed, but the majority of the material was inaccessible. Due to lack of accessibility, the quantities were estimated. Vinyl asbestos floor tiles were observed in several office areas, as listed in the spreadsheets. These present little health hazard unless sawn, sanded, drilled, or disturbed in a way which would cause fibers to become airborne. All these areas are classified as Priority Level IV. It is recommended the materials be monitored under an operations and maintenance program until they can be removed during a phased abatement.

Mudded joint packing on fiberglass-insulated domestic water piping is thought to exist in the KLM Cargo pipe chase. The area was inaccessible and the material could not be sampled. However, it should be treated as asbestos-containing until it can be analyzed prior to demolition or renovation.

Materials which were sampled and determined not to contain asbestos were lay-in ceiling panels, roofing tar, various vinyl floor tiles, fireproofing, and mudded joint packing on nonsuspect pipe insulation.

Please consult the spreadsheets for material locations and quantities, and specific area comments.

PA 078858

COST ESTIMATE

BUILDING 87 - KLM-AER LINGUS CARGO BUILDING

Removal of all asbestos-containing materials in Priority Levels I and II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$32,648
10% Contingency	$3,265
Total Removal/Replacement with Contingency	$35,913

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 17.1% of Total Construction Cost:	
17.1% X $35,913	$6,141
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $35,913	$718
Total Project Estimate Including Professional Fees and Contingency	$49,632

PA 078859

COST ESTIMATE

BUILDING 87 - KLM-AER LINGUS CARGO BUILDING

Removal of all asbestos-containing materials in Priority Levels III and IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$122,301
10% Contingency	$12,230
Total Removal/Replacement with Contingency	$134,531

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 10.0% of Total Construction Cost:	
10.0% X $134,531	$13,453
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 33 8-hour shifts:	
33 X $490	$16,170
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $134,531	$2,691
Total Project Estimate Including Professional Fees and Contingency	$166,845

PA 078860

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 087

				ASBESTOS					OTHER MATERIALS							
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER		TOTAL
15 -221168	Y	N	0							40			20	40 GM		100
15 -221169	Y	N	0							40			20	40 GM		100
15 -221170	Y	N	0							40			20	40 GM		100
15 -221171	Y	N	0							40			20	40 GM		100
15 -221172	Y	N	0							40			20	40 GM		100
15 -221173	Y	N	0							40			20	40 GM		100
15 -221174	Y	N	0							40			20	40 GM		100
15 -221175	Y	N	0							50			10	40 GM		100
15 -221176	Y	N	0							50			10	40 GM		100
15 -221177	Y	N	0							50			10	40 GM		100
15 -221178	Y	N	0							50			10	40 GM		100
15 -221179	Y	N	0							40			20	40 GM		100
16 -221180	Y	Y	20	20									70	10 GM		100
16 -221181	Y	Y	20	20									70	10 GM		100
16 -221182	Y	Y	40	40									50	10 GM		100
0 -221183	N	Y	5	5									65	30 CAL		100
0 -221184	N	N	0							90			10			100
17 -221185	Y	Y	40	40									50	10 GM		100
17 -221186	Y	Y	40	40									50	10 GM		100
17 -221187	Y	Y	40	40									50	10 GM		100
18 -221188	Y	Y	40	40									50	10 GM		100
18 -221189	Y	Y	40	40									50	10 GM		100
18 -221190	Y	Y	40	40									50	10 GM		100
12 -226184	Y	N	0						60				40			100
12 -226185	Y	N	0						60				40			100
12 -226186	Y	N	0						60				40			100
13 -226187	Y	N	0							35	40		25			100
13 -226188	Y	N	0							40	30		30			100
13 -226189	Y	N	0							30	40		30			100
13 -226190	Y	N	0							40	40		20			100
13 -226191	Y	N	0							40	35		25			100
13 -226192	Y	N	0							30	40		30			100
13 -226193	Y	N	0							40	35		25			100
13 -226194	Y	N	0							30	40		30			100
13 -226195	Y	N	0							35	40		25			100
13 -226196	Y	N	0							35	40		25			100
14 -226197	Y	N	0							30	35		35			100
14 -226198	Y	N	0							40	40		20			100
14 -226199	Y	N	0							30	40		30			100
0 -226200	N	N	0										30	70 CAL		100
1 -226340	Y	N	0						40				40	20 GM		100
1 -226341	Y	N	0						40				40	20 GM		100
1 -226342	Y	N	0						40				40	20 GM		100
2 -226343	Y	N	0						40				40	20 GM		100
2 -226344	Y	N	0						40				40	20 GM		100
2 -226345	Y	N	0						40				40	20 GM		100
3 -226346	Y	N	0							50			30	20 GM		100
3 -226347	Y	N	0							50			30	20 GM		100
3 -226348	Y	N	0							50			30	20 GM		100
3 -226349	Y	N	0							50			30	20 GM		100
3 -226350	Y	N	0							50			30	20 GM		100
4 -226351	Y	N	0							50			30	20 GM		100
4 -226352	Y	N	0							50			30	20 GM		100
4 -226353	Y	N	0							50			30	20 GM		100
4 -226354	Y	N	0							50			30	20 GM		100
4 -226355	Y	N	0							50			30	20 GM		100
4 -226356	Y	N	0							50			30	20 GM		100
4 -226357	Y	N	0							50			40	10 GM		100
4 -226358	Y	N	0							50			30	20 GM		100
4 -226359	Y	N	0							50			30	20 GM		100
0 -226360	N	N	0						40	20		20	20			100
0 -226361	N	N	0						40	30		20	10			100
0 -226362	N	Y	2	2									18	70 CAL GM	10	100
0 -226363	N	N	0						30	40		20	10			100
0 -226364	N	N	0						30	40		20	10			100
0 -226365	N	Y	3	3									17	70 CAL GM	10	100
0 -226366	N	N	0										20	70 CAL GM	10	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 087

				ASBESTOS					OTHER MATERIALS							
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER		TOTAL
0 -226367	N	N	0						30	40		20	10			100
0 -226368	N	Y	6	6									14	70 CAL GM	10	100
0 -226369	N	N	0						30	40		20	10			100
5 -226370	Y	N	0						30				50	20 GM		100
5 -226371	Y	N	0						30				50	20 GM		100
5 -226372	Y	N	0						30				40	30 GM		100
6 -226373	Y	N	0							90			10			100
6 -226374	Y	Y	20	20						70			10			100
6 -226375	Y	N	0							80			20			100
7 -226376	Y	N	0						30				40	30 GM		100
7 -226377	Y	N	0						30				40	30 GM		100
7 -226378	Y	N	0						30				40	30 GM		100
0 -226379	N	N	0						30	40		20	10			100
8 -226380	Y	N	0							40			40	20 GM		100
8 -226381	Y	N	0							40			40	20 GM		100
8 -226382	Y	N	0							40			40	20 GM		100
8 -226383	Y	N	0							40			40	20 GM		100
8 -226384	Y	N	0							40			40	20 GM		100
8 -226385	Y	N	0							40			40	20 GM		100
8 -226386	Y	N	0							40			40	20 GM		100
8 -226387	Y	N	0							40			40	20 GM		100
8 -226388	Y	N	0							40			40	20 GM		100
8 -226389	Y	N	0							40			40	20 GM		100
9 -226390	Y	Y	20	20					30				40	10 GM		100
9 -226391	Y	Y	20	20					30				40	10 GM		100
9 -226392	Y	Y	20	20					40				30	10 GM		100
10 -226393	Y	N	0						40	20			40			100
10 -226394	Y	N	0						40	10			40	10 GM		100
10 -226395	Y	N	0						50				40	10 GM		100
11 -226396	Y	N	0						50				40	10 GM		100
11 -226397	Y	N	0						50				40	10 GM		100
11 -226398	Y	N	0						40				50	10 GM		100
0 -226399	N	N	0						30	40		20	10			100
0 -226400	N	N	0						30	40		20	10			100

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 49

Building Number: 087
Building Name: KLM-AER LINGUS CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1962
Inspected: 06/23/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AER LINGUS	Cargo Area-Drain Pipe					AREA AVERAGE % ASB - 40%							
		near ceiling-center of building-N to S	221185-17	mjp on non-suspect pipe cover	OMA	15 8 in. O.D.		DR	40	60	I	$971	$571	$1,542
			221186-17	mjp on non-suspect pipe cover	OMA				40	60	I			
			221187-17	mjp on non-suspect pipe cover	OMA				40	60	I			
		This material was found to be in bad condition. The material has sustained severe contact damage and debris was found on top of stored cargo. This material needs to be repaired and the debris cleaned up.							AREA TOTAL			$971	$571	$1,542
02	AER LINGUS	Cargo Area					AREA AVERAGE % ASB - 40%							
		near ceiling-throughout	221188-18	mjp on non-suspect pipe cover	OMA	40 4 in. O.D.		DW	40	24	III	$1,512	$840	$2,352
			221189-18	mjp on non-suspect pipe cover	OMA				40	24	III			
			221190-18	mjp on non-suspect pipe cover	OMA				40	24	III			
		This material was found to be in good condition. The contact and water damage to this material was minimal.							AREA TOTAL			$1,512	$840	$2,352
03	AER LINGUS	Furnace Room					AREA AVERAGE % ASB - 33%							
		near ceiling & north wall	221180-16	exterior duct insulation	OMB	500 sq.ft.			40	60	I	$16,090	$12,960	$29,050
			221181-16	exterior duct insulation	OMB				20	60	I			
			221182-16	exterior duct insulation	OMB				40	60	I			
		This material was found to be in poor condition. The material has degraded and is falling off the substrate. The material is creating debris. This material needs to be cleaned up and repaired. This area of the building is seldom accessed.							AREA TOTAL			$16,090	$12,960	$29,050
04	AER LINGUS	North End-Office Area					AREA AVERAGE % ASB - 0%							
		floor-throughout	226200-0	vinyl floor tile	OMZ	1750 sq.ft.			0					

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$0	$0	$0
05	AER LINGUS	North End-Office-Ceiling					AREA AVERAGE % ASB - 0%							
		throughout	226399-0	drop or lay-in panel	OMG	800 sq.ft.			0					
		maintenance manager's office-throughout	226400-0	drop or lay-in panel	OMG	400 sq.ft.			0					
									AREA TOTAL			$0	$0	$0
06	AER LINGUS	South End-Offices					AREA AVERAGE % ASB - 0%							
		on north wall	221184-0	roofing tar paper/roofing felt	OMZ	10 ft. 4 in. O.D.		DW	0					
									AREA TOTAL			$0	$0	$0
07	AER LINGUS	Pipe Chase					AREA AVERAGE % ASB - 40%							
		in chases	221188-18	mjp on non-suspect pipe cover	OMA	120 4 in. O.D.		DW	40	12	IV	$4,536	$2,520	$7,056
			221189-18	mjp on non-suspect pipe cover	OMA				40	12	IV			
			221190-18	mjp on non-suspect pipe cover	OMA				40	12	IV			
		This material was inaccessible at the time of the inspection. The quantity of this material is an estimate.							AREA TOTAL			$4,536	$2,520	$7,056
							TENANT - AER LINGUS		TOTAL			$23,109	$16,891	$40,000

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 49

Building Number: 087
Building Name: KLM-AER LINGUS CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1962
Inspected: 06/23/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
08	AIR JAMAICA	Office Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		226399-0	drop or lay-in panel	OMG	250	sq.ft.			0				
									AREA TOTAL			$0	$0	$0
09	AIR JAMAICA	Office					AREA AVERAGE % ASB -		0%					
	floor-throughout		226200-0	vinyl floor tile	OMZ	250	sq.ft.			0				
									AREA TOTAL			$0	$0	$0
							TENANT - AIR JAMAICA			TOTAL		$0	$0	$0

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

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Constructed: 1962
Inspected: 06/23/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
10	ECUATORIANA	Jet Cargo-Office-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		226399-0	drop or lay-in panel	OMG	500	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
11	ECUATORIANA	Jet Cargo-Office					AREA AVERAGE % ASB -		0%					
	floor throughout		226200-0	vinyl floor tile	OMZ	500	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - ECUATORIANA		TOTAL			$0	$0	$0

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

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Inspected: 06/23/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
12	OLYMPIC	Office												
							AREA AVERAGE % ASB -		0%					
	floor throughout		226200-0	vinyl floor tile	OMZ	450	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - OLYMPIC		TOTAL			$0	$0	$0

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

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Building Number: 087
Building Name: KLM-AER LINGUS CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1962
Inspected: 06/23/88
Inspector: J. S. Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
13	EL AL	Warehouse Area					AREA AVERAGE % ASB - 0%							
		west walls-15' above floor-at ceiling	226393-10	mjp on non-suspect pipe cover	OMA	100	4 in. O.D.	HWS/R	0					
			226394-10	mjp on non-suspect pipe cover	OMA				0					
			226395-10	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
							TENANT - EL AL		TOTAL			$0	$0	$0

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 49

Building Number: 087
Building Name: KLM-AER LINGUS CARGO JFK AIRPORT
Building Type: CARGO
Constructed: 1962
Inspected: 06/23/88
Inspector: J. S. Larsen

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
14	KLM CARGO	Warehouse-S End Storage Room-Ceiling					AREA AVERAGE % ASB - 0%							
		on steel-throughout	221168-15	fireproofing	OMC	11700	sq.ft.		0					
			221169-15	fireproofing	OMC				0					
			221170-15	fireproofing	OMC				0					
			221171-15	fireproofing	OMC				0					
			221172-15	fireproofing	OMC				0					
			221173-15	fireproofing	OMC				0					
			221174-15	fireproofing	OMC				0					
			221175-15	fireproofing	OMC				0					
			221176-15	fireproofing	OMC				0					
			221177-15	fireproofing	OMC				0					
			221178-15	fireproofing	OMC				0					
			221179-15	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
15	KLM CARGO	Warehouse Area-Ceiling					AREA AVERAGE % ASB - 0%							
		northwest corner on steel throughout	226187-13	fireproofing	OMC	23300	sq.ft.		0					
			226188-13	fireproofing	OMC				0					
			226189-13	fireproofing	OMC				0					
			226190-13	fireproofing	OMC				0					
			226191-13	fireproofing	OMC				0					
			226192-13	fireproofing	OMC				0					
			226193-13	fireproofing	OMC				0					
			226194-13	fireproofing	OMC				0					
			226195-13	fireproofing	OMC				0					
			226196-13	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
16	KLM CARGO	1st Floor-Sprinkler Valve Room					AREA AVERAGE % ASB - 20%							
		along south wall	226390-9	mjp on non-suspect pipe cover	OMA	20	8 in. O.D.	DW	20	56	II	$1,295	$761	$2,056

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			226391-9	mjp on non-suspect pipe cover	OMA				20	56	II			
			226392-9	mjp on non-suspect pipe cover	OMA				20	56	II			
		This material was found to be in poor condition. Damage to the material is extensive and debris is common. This material needs to be repaired as soon as possible. This area is accessed occasionally.							AREA TOTAL			$1,295	$761	$2,056
17	KLM CARGO	1st Floor-North End-Offices					AREA AVERAGE % ASB -		3%					
		floor-throughout	226365-0	vinyl floor tile	OMZ	2200 sq.ft.			3	6	IV	$9,988	$7,568	$17,556
		This material was found to be in good condition. Some of the material is beginning to show wear from traffic patterns. This area is frequently accessed.							AREA TOTAL			$9,988	$7,568	$17,556
18	KLM CARGO	South Offices					AREA AVERAGE % ASB -		5%					
		northeast corner floor-throughout	221183-0	vinyl floor tile	OMZ	500 sq.ft.			5	6	IV	$2,270	$1,720	$3,990
		This material is in good condition with some wear damage apparent. The area is frequently accessed.							AREA TOTAL			$2,270	$1,720	$3,990
19	KLM CARGO	1st Floor-North End-Hallway-Ceiling					AREA AVERAGE % ASB -		0%					
		throughout	226364-0	drop or lay-in panel	OMG	600 sq.ft.			0					
									AREA TOTAL			$0	$0	$0
20	KLM CARGO	1st Floor-North End-Office-Ceiling					AREA AVERAGE % ASB -		0%					
		rest rooms, foyer & offices-throughout	226363-0	drop or lay-in panel	OMG	3000 sq.ft.			0					
									AREA TOTAL			$0	$0	$0

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
21	KLM CARGO	1st Floor-North End					AREA AVERAGE % ASB -		0%					
	at ceiling on steel I-beams		226197-14	fireproofing	OMC	1000	sq.ft.		0					
			226198-14	fireproofing	OMC				0					
			226199-14	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
22	KLM CARGO	1st Floor-North End					AREA AVERAGE % ASB -		0%					
	pipe chase		99999-0	mjp on non-suspect pipe cover	OMA	60	4 in. O.D.	DW				$2,268	$1,260	$3,528
								AREA TOTAL				$2,268	$1,260	$3,528
23	KLM CARGO	1st Floor-South End-Offices Area					AREA AVERAGE % ASB -		0%					
	floor-throughout		226366-0	vinyl floor tile	OMZ	5500	sq.ft.		0					
								AREA TOTAL				$0	$0	$0
24	KLM CARGO	1st Floor-South End-Office-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		226367-0	drop or lay-in panel	OMG	5500	sq.ft.		0					
								AREA TOTAL				$0	$0	$0
25	KLM CARGO	1st Floor-South End					AREA AVERAGE % ASB -		0%					
	above drop ceiling-throughout		226396-11	mjp on non-suspect pipe cover	OMA	30	4 in. O.D.	HWS/R	0					
			226397-11	mjp on non-suspect pipe cover	OMA				0					
			226398-11	mjp on non-suspect pipe cover	OMA				0					
	above drop ceiling & pipe chase		226184-12	mjp on non-suspect pipe cover	OMA	60	4 in. O.D.	DW	0					
			226185-12	mjp on non-suspect pipe cover	OMA				0					

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			226186-12	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
26	KLM CARGO	2nd Floor-North End-Boiler Room					AREA AVERAGE % ASB - 0%							
		south half of room	226340-1	mjp on non-suspect pipe cover	OMA	45	4 in. O.D.	HWS/R	0					
			226341-1	mjp on non-suspect pipe cover	OMA				0					
			226342-1	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
27	KLM CARGO	2nd Floor-North End-Boiler Room					AREA AVERAGE % ASB - 0%							
		throughout	226343-2	mjp on non-suspect pipe cover	OMA	20	4 in. O.D.	DW	0					
			226344-2	mjp on non-suspect pipe cover	OMA				0					
			226345-2	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
28	KLM CARGO	2nd Floor-North End-Boiler Room					AREA AVERAGE % ASB - 0%							
		on steel ceiling & I-beams throughout	226346-3	fireproofing	OMC	3500	sq.ft.	DW	0					
			226347-3	fireproofing	OMC				0					
			226348-3	fireproofing	OMC				0					
			226349-3	fireproofing	OMC				0					
			226350-3	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
29	KLM CARGO	2nd Floor-North End					AREA AVERAGE % ASB - 2%							
		offices & hallway floor	226362-0	vinyl floor tile	OMZ	7000	sq.ft.		2	6	IV	$31,780	$24,080	$55,860

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material was found to be in good condition. Some areas are showing wear. This part of the building is frequently accessed.							AREA TOTAL			$31,780	$24,080	$55,860
30	KLM CARGO	2nd Floor-North End-Ceiling					AREA AVERAGE % ASB -		0%					
		all offices throughout	226360-0	drop or lay-in panel	OMG	9000 sq.ft.			0					
									AREA TOTAL			$0	$0	$0
31	KLM CARGO	2nd Floor-North End-Hallway					AREA AVERAGE % ASB -		0%					
		ceilings throughout	266361-0	drop or lay-in panel	OMG	1000 sq.ft.								
									AREA TOTAL			$0	$0	$0
32	KLM CARGO	2nd Floor-North End					AREA AVERAGE % ASB -		0%					
		on steel ceiling & I-beams	226351-4	fireproofing	OMC	18000 sq.ft.			0					
			226352-4	fireproofing	OMC				0					
			226353-4	fireproofing	OMC				0					
			226354-4	fireproofing	OMC				0					
			226355-4	fireproofing	OMC				0					
			226356-4	fireproofing	OMC				0					
			226357-4	fireproofing	OMC				0					
			226358-4	fireproofing	OMC				0					
			226359-4	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
33	KLM CARGO	2nd Floor-North End					AREA AVERAGE % ASB -		0%					
		ceiling & pipe chase	226343-2	mjp on non-suspect pipe cover	OMA	80 4 in. O.D.		DW	0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			226391-9	mjp on non-suspect pipe cover	OMA				20	56	II			
			226392-9	mjp on non-suspect pipe cover	OMA				20	56	II			
		This material was found to be in poor condition. Damage to the material is extensive and debris is common. This material needs to be repaired as soon as possible. This area is accessed occasionally.						AREA TOTAL				$1,295	$761	$2,056
17	KLM CARGO	1st Floor-North End-Offices					AREA AVERAGE % ASB -	3%						
		floor-throughout	226365-0	vinyl floor tile	OMZ	2200 sq.ft.			3	6	IV	$9,988	$7,568	$17,556
		This material was found to be in good condition. Some of the material is beginning to show wear from traffic patterns. This area is frequently accessed.						AREA TOTAL				$9,988	$7,568	$17,556
18	KLM CARGO	South Offices					AREA AVERAGE % ASB -	5%						
		northeast corner floor-throughout	221183-0	vinyl floor tile	OMZ	500 sq.ft.			5	6	IV	$2,270	$1,720	$3,990
		This material is in good condition with some wear damage apparent. The area is frequently accessed.						AREA TOTAL				$2,270	$1,720	$3,990
19	KLM CARGO	1st Floor-North End-Hallway-Ceiling					AREA AVERAGE % ASB -	0%						
		throughout	226364-0	drop or lay-in panel	OMG	600 sq.ft.			0					
								AREA TOTAL				$0	$0	$0
20	KLM CARGO	1st Floor-North End-Office-Ceiling					AREA AVERAGE % ASB -	0%						
		rest rooms, foyer & offices-throughout	226363-0	drop or lay-in panel	OMG	3000 sq.ft.			0					
								AREA TOTAL				$0	$0	$0

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	This material was found to be undamaged and in very good condition. This area is occasionally accessed.								AREA TOTAL			$18,160	$13,760	$31,920
38	KLM CARGO	2nd Floor-South End-Ceiling					AREA AVERAGE % ASB -		0%					
	offices-thoughout		226369-0	drop or lay-in panel	OMG	5000	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
39	KLM CARGO	2nd Floor-Fan Room					AREA AVERAGE % ASB -		0%					
	throughout ceiling area		226380-8	fireproofing	OMC	1000	sq.ft.		0					
			226381-8	fireproofing	OMC				0					
			226382-8	fireproofing	OMC				0					
			226383-8	fireproofing	OMC				0					
			226384-8	fireproofing	OMC				0					
			226385-8	fireproofing	OMC				0					
			226386-8	fireproofing	OMC				0					
			226387-8	fireproofing	OMC				0					
			226388-8	fireproofing	OMC				0					
			226389-8	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
40	KLM CARGO	2nd Fl-S End-Hallway & Shower Ceilings					AREA AVERAGE % ASB -		0%					
	throughout		226379-0	drop or lay-in panel	OMG	900	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
41	KLM CARGO	2nd Floor-South End					AREA AVERAGE % ASB -		0%					
	on steel ceilings & I-beams		226380-8	fireproofing	OMC	9000	sq.ft.		0					

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			226186-12	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
26	KLM CARGO	2nd Floor-North End-Boiler Room					AREA AVERAGE % ASB -		0%					
		south half of room	226340-1	mjp on non-suspect pipe cover	OMA	45	4 in. O.D.	HWS/R	0					
			226341-1	mjp on non-suspect pipe cover	OMA				0					
			226342-1	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
27	KLM CARGO	2nd Floor-North End-Boiler Room					AREA AVERAGE % ASB -		0%					
		throughout	226343-2	mjp on non-suspect pipe cover	OMA	20	4 in. O.D.	DW	0					
			226344-2	mjp on non-suspect pipe cover	OMA				0					
			226345-2	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
28	KLM CARGO	2nd Floor-North End-Boiler Room					AREA AVERAGE % ASB -		0%					
		on steel ceiling & I-beams throughout	226346-3	fireproofing	OMC	3500	sq.ft.	DW	0					
			226347-3	fireproofing	OMC				0					
			226348-3	fireproofing	OMC				0					
			226349-3	fireproofing	OMC				0					
			226350-3	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
29	KLM CARGO	2nd Floor-North End					AREA AVERAGE % ASB -		2%					
		offices & hallway floor	226362-0	vinyl floor tile	OMZ	7000	sq.ft.		2	6	IV	$31,780	$24,080	$55,860

PA 078876

L-KIMBRELL ENVIRONMENTAL SERVICES, INC.

estos Assessment Survey

K Building #: 49

Building Number: 087
Building Name: KLM-AER LINGUS CARGO
JFK AIRPORT
Building Type: CARGO
Constructed: 1962
Inspected: 06/23/88
Inspector: J. S. Lanan

EA	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			226381-8	fireproofing	OMC				0					
			226382-8	fireproofing	OMC				0					
			226383-8	fireproofing	OMC				0					
			226384-8	fireproofing	OMC				0					
			226385-8	fireproofing	OMC				0					
			226387-8	fireproofing	OMC				0					
			226388-8	fireproofing	OMC				0					
			226389-8	fireproofing	OMC				0					
									AREA TOTAL			$0	$0	$0
							AREA AVERAGE % ASB - 0%							
42	KLM CARGO	2nd Floor-South End							0					
		rest room & shower walls	226370-5	mjp on non-suspect pipe cover	OMA	100	4 in. O.D.	DW						
									AREA TOTAL			$0	$0	$0
							TENANT - KLM CARGO		TOTAL			$65,785	$49,164	$114,949
									BUILDING TOTAL			$88,894	$66,055	$154,949

PA 078878

BUILDING 88-88A
HUDSON GENERAL CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 88-88A - HUDSON GENERAL CARGO BUILDING

The Hudson General Cargo Building is a two-story, concrete block and structural steel facility which was built in 1963. The facility is occupied by the U.S. Customs Service. The first floor contains offices and document storage. The second floor was unoccupied at the time of the inspection. 1

Ex. 4

Building materials which were confirmed by laboratory analysis to contain asbestos were sprayed fireproofing, mudded joint packing on fiberglass-insulated piping systems, breeching insulation, lay-in ceiling panels, and vinyl floor tiles.

Asbestos-containing fireproofing was present on structural steel and wire mesh above the second floor suspended ceiling and women's restroom wall. The material was very friable and exhibited contact damage with associated debris. The area has been classified as Priority Level I and it is recommended the fireproofing be removed as soon as possible.

Asbestos-containing mudded joint packing on fiberglass-insulated piping systems was found in the first floor mechanical room and above the second floor drop ceilings. The material had isolated areas of contact and water damage. Asbestos-containing drop ceiling panels were found throughout the first floor. These areas have been classified as Priority Level III. It is recommended the damaged areas be repaired as needed and the materials included in an operations and maintenance program until they can be removed during a phased abatement.

Priority Level IV materials include vinyl asbestos floor tiles throughout the first floor office areas and asbestos-containing roofing tar on the center roof section. These materials present little health hazard unless sawn, sanded, drilled, or altered in any way which would cause fibers to become airborne. It is recommended these materials be maintained until they can be removed during a phased abatement.

Please consult the spreadsheets for material locations and quantities, and specific area comments.

PA 078881

COST ESTIMATE

BUILDING 88-88A - HUDSON GENERAL CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$30,401
10% Contingency	$3,040
Total Removal/Replacement with Contingency	$33,441

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at Minimum Fee:	$6,000

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 14 8-hour shifts:

14 X $490	$6,860

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $33,441	$669

Total Project Estimate Including Professional Fees and Contingency	$46,970

PA 078882

COST ESTIMATE

BUILDINGS 88-88A - HUDSON GENERAL CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$24,759
10% Contingency	$2,476
Total Removal/Replacement with Contingency	$27,235

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at Minimum Fee:	$6,000
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $27,235	$545
Total Project Estimate Including Professional Fees and Contingency	$40,640

PA 078883

COST ESTIMATE

BUILDING 88-88A - HUDSON GENERAL CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$32,117
10% Contingency	$3,212
Total Removal/Replacement with Contingency	$35,329

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 17.25% of Total Construction Cost:

17.25% X $35,329 — $6,094

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 14 8-hour shifts:

14 X $490 — $6,860

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $35,329 — $707

Total Project Estimate Including Professional Fees and Contingency — $48,990

PA 078884

COST ESTIMATE

BUILDING 88-88A - HUDSON GENERAL CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$69,215
10% Contingency	$6,922
Total Removal/Replacement with Contingency	$76,137

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 12.0% of Total Construction Cost:

12.0% X $76,137 — $9,136

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 22 8-hour shifts:

22 X $490 — $10,780

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $76,137 — $1,523

Total Project Estimate Including Professional Fees and Contingency — $97,576

PA 078885

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 88-88a

			ASBESTOS					OTHER MATERIALS							
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
2 -251643	Y	Y	10	10					50				40		100
3 -251644	Y	Y	10	10					50				40		100
3 -251645	Y	Y	20	20					50				30		100
3 -251646	Y	Y	10	10					50				40		100
0 -251647	N	Y	6	6									14	60 CAL GM 20	100
4 -251648	Y	Y	40	40									50	10 GM	100
4 -251649	Y	Y	50	50									40	10 GM	100
4 -251650	Y	Y	50	50									40	10 GM	100
5 -251651	Y	Y	40	40									50	10 GM	100
5 -251652	Y	Y	50	50									40	10 GM	100
5 -251653	Y	Y	50	50									40	10 GM	100
6 -251654	Y	Y	40		40								50	10 GM	100
6 -251655	Y	Y	40		40								50	10 GM	100
6 -251656	Y	Y	40		40								50	10 GM	100
0 -251657	N	Y	5	5						25			20	50 TAR	100
0 -251658	N	Y	6	6									4	70 CAL GM 20	100
7 -251659	Y	Y	60	20	40								40		100
7 -251660	Y	Y	70	30	40								30		100
7 -251661	Y	Y	60	20	40								40		100
0 -251662	N	Y	22	2	20				40	20			18		100
0 -251663	N	Y	12	2	10				40	20			28		100
1 -251796	Y	Y	40	40					5	15			40		100
1 -251797	Y	Y	35	35						20			45		100
1 -251798	Y	Y	40	40					5	20			35		100
2 -251799	Y	Y	10	10					35	10			45		100
2 -251800	Y	Y	10	10					40				50		100

PA 078886

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 86

Building Number: 88-88a
Building Name: HUDSON CARGO/US CUSTOMS JFK AIRPORT
Building Type: OFFICE
Constructed: 1963
Inspected: 08/08/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	U.S. CUSTOMS	1st Floor-Boiler Room					AREA AVERAGE % ASB - 51%							
		above hot water heater	251796-1	mjp on non-suspect pipe cover	OMA	18	4 in. O.D.	DW	40	41	II	$680	$378	$1,058
			251797-1	mjp on non-suspect pipe cover	OMA				35	41	II			
			251798-1	mjp on non-suspect pipe cover	OMA				40	41	II			
		above boiler	251659-7	breecher/exhaust stack packing	OMB	230	sq.ft.		60	41	II	$13,126	$10,575	$23,701
			251660-7	breecher/exhaust stack packing	OMB				70	41	II			
			251661-7	breecher/exhaust stack packing	OMB				60	41	II			
		The pipe insulation is located throughout the domestic lines as well as on the boiler vent breecher. Very little damage is apparent. Removal, if needed, will not be hampered.							AREA TOTAL			$13,806	$10,953	$24,759
02	U.S. CUSTOMS	1st Floor-Mechanical Room					AREA AVERAGE % ASB - 12%							
		above air handler	251643-2	mjp on non-suspect pipe cover	OMA	16	6 in. O.D.	CWS/R	10	27	III	$833	$489	$1,322
			251799-2	mjp on non-suspect pipe cover	OMA				10	27	III			
			251800-2	mjp on non-suspect pipe cover	OMA				10	27	III			
		mezzanine	251644-3	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	FA	10	27	III	$454	$252	$706
			251645-3	mjp on non-suspect pipe cover	OMA				20	27	III			
			251646-3	mjp on non-suspect pipe cover	OMA				10	27	III			
		ıe material is found on two different levels of the mechanical room. The material is in moderate condition ıth the second level accessible by way of a permanent ladder with approximately 3' of clearance.							AREA TOTAL			$1,287	$741	$2,028
02A	U.S. CUSTOMS	1st Floor-Lounge					AREA AVERAGE % ASB - 6%							
		throughout	251658-0	vinyl floor tile	OMZ	600	sq.ft.		6	6	IV	$2,724	$2,064	$4,788
		The material is in good condition with no damage apparent. At a minimum, it is recommended that the material be included in an Operations and Maintenance Plan.							AREA TOTAL			$2,724	$2,064	$4,788

PA 078887

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 86

Building Number: 88-88a
Building Name: HUDSON CARGO/US CUSTOMS JFK AIRPORT
Building Type: OFFICE
Constructed: 1963
Inspected: 08/08/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	U.S. CUSTOMS	2nd Floor-General Office					AREA AVERAGE % ASB - 40%							
		above ceiling-south & west perimeter	251654-6	fireproofing	OMC	660	sq.ft.		40	63	I	$23,833	$4,409	$28,242
			251655-6	fireproofing	OMC				40	63	I			
			251656-6	fireproofing	OMC				40	63	I			
		The material is sprayed-on I-beams and wire mesh over half of the second floor perimeter. The material shows moderate damage and debris. Removal, if needed, will be hampered by the tight working conditions above the ceiling panels.							AREA TOTAL			$23,833	$4,409	$28,242
07A	U.S. CUSTOMS	2nd Floor-Office Area-Ceiling					AREA AVERAGE % ASB - 12%							
		throughout	251663-0	drop or lay-in panel	OMG	2850	sq.ft.		12	24	IV	$21,546	$7,838	$29,384
		The material is in good condition with no damage apparent. The material is approximately 10' from the floor. At a minimum, it is recommended that the material be included in an Operations and Maintenance Plan.							AREA TOTAL			$21,546	$7,838	$29,384
08	U.S. CUSTOMS	Outside Roof					AREA AVERAGE % ASB - 5%							
		center building	251657-0	roofing tar paper/roofing felt	OMZ	2310	sq.ft.		5	9	IV	$9,540	$6,353	$15,893
		The roofing tar is found in fair condition.							AREA TOTAL			$9,540	$6,353	$15,893
							TENANT - U.S. CUSTOMS		TOTAL			$107,406	$49,088	$156,494
									BUILDING TOTAL			$107,406	$49,088	$156,494

PA 078888

BUILDING 89
TRIANGLE AVIATION CARGO BUILDING

PA 078891

FINDINGS AND OBSERVATIONS

BUILDING 89 - TRIANGLE AVIATION CARGO BUILDING

Building 89 is a two-level, concrete cinder block and structural steel facility. It was constructed in 1963 and encompasses 25,988 square feet. The primary occupant of the building is Triangle Aviation, which occupies the entire first floor. Other tenants include ALIA; Aloyd Forwarding International; Soller Singler, Attorneys-at-Law; and James C. Trombetta, a customs broker. Ex. 4

Asbestos-containing fireproofing in the first floor mechanical room was in relatively good condition at the time of the inspection. The material is very friable and has a propensity for fiber fallout. The area has been classified as Priority Level I due to the accessibility and condition of the material. Hall-Kimbrell recommends the materials be abated as soon as funding becomes available.

Asbestos-containing mudded joint packings on nonsuspect pipe covering on domestic, chilled, and hot water piping were located on the first floor cargo area. The packings had localized areas of contact damage. This area has been classified as Priority Level II. Hall-Kimbrell recommends repairing the damaged areas and including the material in an operations and maintenance program until removal becomes feasible.

Asbestos-containing mudded joint packings on fiberglass-insulated piping, corrugated pipe covering, breeching insulation, and vinyl floor tiles were found in relatively good condition. These areas have been classified as Priority Levels III and IV. Any damaged areas should be repaired as needed and the materials included in an operations and maintenance program until they are removed as part of a phased abatement.

Materials which were sampled and determined not to contain asbestos include roofing tar and lay-in ceiling panels.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078892

COST ESTIMATE

BUILDING 89 - TRIANGLE AVIATION CARGO BUILDING

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$49,813
10% Contingency	$4,981
Total Removal/Replacement with Contingency	$54,794

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 13.7% of Total Construction Cost:

13.7% X $54,794	$7,507

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 18 8-hour shifts:

18 X $490	$8,820

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $54,794	$1,096

Total Project Estimate Including Professional Fees and Contingency	$72,217

PA 078893

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 089

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	ANO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER		TOTAL
1 -251664	Y	Y	30	30					20				50			100
1 -251665	Y	Y	20	20					20				60			100
1 -251666	Y	Y	10	10					40				50			100
2 -251667	Y	Y	6	6					50				34	10 GM		100
2 -251668	Y	Y	6	6					40				44	10 GM		100
2 -251669	Y	Y	6	6					30				54	10 GM		100
3 -251670	Y	Y	40		40				30				30			100
3 -251671	Y	Y	40		40				40				20			100
3 -251672	Y	Y	40		40				40				20			100
4 -251673	Y	Y	20	20									60	20 GM		100
4 -251674	Y	Y	20	20									70	10 GM		100
4 -251675	Y	Y	20	20						10			60	10 GM		100
0 -251676	N	Y	6	6									14	60 CAL GM	20	100
0 -251677	N	N	0						60				30	10 GM		100
0 -251678	N	N	0							30			10	60 TAR		100
5 -251679	Y	Y	50	50						40			10			100
5 -251680	Y	Y	60	60						30			10			100
5 -251681	Y	Y	50	50						40			10			100
6 -251682	Y	Y	60	60									30	10 GM		100
6 -251683	Y	Y	60	50	10								30	10 GM		100
6 -251684	Y	Y	60	60									30	10 GM		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 72

Building Number: 089
Building Name: TRIANGLE AVIATION CARGO
JFK AIRPORT
Building Type: CARGO
Constructed: 1963
Inspected: 08/08/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TRIANGLE AVIATN	1st Floor-Boiler Room					AREA AVERAGE % ASB - 35%							
		on & above boiler	251667-2	mjp on non-suspect pipe cover	OMA	16	4 in. O.D.	HWS/R	6	24	III	$605	$336	$941
		on & above boiler	251667-2	mjp on non-suspect pipe cover	OMA	12	6 in. O.D.	HWS/R	6	24	III	$624	$367	$991
			251668-2	mjp on non-suspect pipe cover	OMA				6	24	III			
			251669-2	mjp on non-suspect pipe cover	OMA				6	24	III			
		east wall	251673-4	mjp on non-suspect pipe cover	OMA	8	4 in. O.D.	DW	20	24	III	$302	$168	$470
			251674-4	mjp on non-suspect pipe cover	OMA				20	24	III			
			251675-4	mjp on non-suspect pipe cover	OMA				20	24	III			
		above boiler	251679-5	corrugated pipe covering	OMA	20	ft. 4 in. O.D.	DW	50	24	III	$240	$150	$390
			251680-5	corrugated pipe covering	OMA				60	24	III			
			251681-5	corrugated pipe covering	OMA				50	24	III			
		on boiler	251682-6	breecher/exhaust stack packing	OMB	110	sq.ft.		60	24	III	$5,260	$4,213	$9,473
			251683-6	breecher/exhaust stack packing	OMB				60	24	III			
			251684-6	breecher/exhaust stack packing	OMB				60	24	III			
		The materials are mudded joints and tank packings found throughout the boiler room. No major damage is apparent.							AREA TOTAL			$7,031	$5,234	$12,265
02	TRIANGLE AVIATN	1st Floor-Mechanical Room					AREA AVERAGE % ASB - 15%							
		on & above air handler	251664-1	mjp on non-suspect pipe cover	OMA	26	4 in. O.D.	CWS/R	30	24	III	$983	$546	$1,529
		on & above air handler	251664-1	mjp on non-suspect pipe cover	OMA	24	6 in. O.D.	CWS/R	30	24	III	$1,249	$734	$1,983
			251665-1	mjp on non-suspect pipe cover	OMA				20	24	III			
			251666-1	mjp on non-suspect pipe cover	OMA				10	24	III			
		along south wall	251667-2	mjp on non-suspect pipe cover	OMA	16	4 in. O.D.	HWS/R	6	24	III	$605	$336	$941
			251668-2	mjp on non-suspect pipe cover	OMA				6	24	III			
			251669-2	mjp on non-suspect pipe cover	OMA				6	24	III			
		The material is in good condition. Localized areas of minor contact and water damage were observed during the inspection. Confined space would impair removal procedures.							AREA TOTAL			$2,837	$1,616	$4,453

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	TRIANGLE AVIATN	1st Floor-Mechanical Room					AREA AVERAGE % ASB - 40%							
	throughout		251670-3	fireproofing	OMC	800	sq.ft.		40	66	I	$17,464	$4,096	$21,560
			251671-3	fireproofing	OMC				40	66	I			
			251672-3	fireproofing	OMC				40	66	I			
	The material is sprayed-on the I-beams and corrugated decking throughout ceiling area. Very little damage is apparent. Removal, if needed, will be lightly hampered by the air handler and the 15' high ceiling.							AREA TOTAL				$17,464	$4,096	$21,560
04	TRIANGLE AVIATN	1st Floor-South Office-Floor					AREA AVERAGE % ASB - 6%							
	throughout		251676-0	vinyl floor tile	OMZ	237	sq.ft.		6	6	IV	$1,076	$815	$1,891
	The material is found in good condition without visible damage.							AREA TOTAL				$1,076	$815	$1,891
05	TRIANGLE AVIATN	1st Floor-Cargo Area					AREA AVERAGE % ASB - 15%							
	south end-at ceiling		251664-1	mjp on non-suspect pipe cover	OMA	42	4 in. O.D.	CWS/R	30	48	II	$1,588	$882	$2,470
			251665-1	mjp on non-suspect pipe cover	OMA				20	48	II			
			251666-1	mjp on non-suspect pipe cover	OMA				10	48	II			
	south end-at ceiling		251667-2	mjp on non-suspect pipe cover	OMA	38	4 in. O.D.	HWS/R	6	48	II	$1,436	$798	$2,234
	north end-at ceiling		251667-2	mjp on non-suspect pipe cover	OMA	72	4 in. O.D.	HWS/R	6	48	II	$2,722	$1,512	$4,234
			251668-2	mjp on non-suspect pipe cover	OMA				6	48	II			
			251669-2	mjp on non-suspect pipe cover	OMA				6	48	II			
	south end-at ceiling		251673-3	mjp on non-suspect pipe cover	OMA	12	4 in. O.D.	DW	20	48	II	$454	$252	$706
			251674-3	mjp on non-suspect pipe cover	OMA				20	48	II			
			251675-3	mjp on non-suspect pipe cover	OMA				20	48	II			
	The mudded joint packings are [illegible]d throughout the ceiling of the cargo area. Damage is very minor and found only in localized areas.							AREA TOTAL				$6,200	$3,444	$9,644
06	TRIANGLE AVIATN	2nd Floor-Office-Ceiling Area					AREA AVERAGE % ASB - 0%							
	throughout		251677-0	drop or lay-in panel	OMG	2700	sq.ft.		0					

PA 078896

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

N-K Building #: 72

Building Number: 089
Building Name: TRIANGLE AVIATION CARGO
JFK AIRPORT
Building Type: CARGO
Constructed: 1963
Inspected: 08/08/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$0	$0	$0
07	TRIANGLE AVIATN	Roof Area					AREA AVERAGE % ASB -		0%					
	throughout		251678-0	roofing tar paper/roofing felt	OMZ	11880	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - TRIANGLE AVIATN TOTAL					$34,608	$15,205	$49,813
								BUILDING TOTAL				$34,608	$15,205	$49,813

PA 078897

BUILDING 90
ALLIED FUEL DISTRIBUTION MAINTENANCE GARAGE

FINDINGS AND OBSERVATIONS

BUILDING 90 - ALLIED FUEL DISTRIBUTION MAINTENANCE GARAGE

The Allied Fuel Distribution Maintenance Garage is a one-story, brick and structural steel building that was constructed in 1956. The garage area was added in 1960. The building is heated with forced-air gas and cooled with refrigerant gas units. Building materials confirmed by laboratory analysis to contain asbestos include tank insulation, breeching insulation, wrapped cardboard and corrugated pipe insulations with mudded joint packing, and vinyl floor tiles.

Asbestos-containing tank insulation was present in the southwest boiler room. The material had contact and water damage, and was susceptible to further deterioration. The material had a high asbestos content and this area has been classified as Priority Level I. It is recommended the material be removed as soon as possible.

Asbestos-containing breeching insulation was observed in the southwest boiler room. The material was friable and had considerable contact and water damage, and small quantities of debris were observed. The area has been classified as Priority Level II. It is recommended the damaged areas be repaired and the debris removed. The material should then be maintained in an operations and maintenance program until it can be removed during a phased abatement.

Asbestos-containing corrugated and wrapped cardboard pipe insulations with mudded joint packing were present throughout the southwest boiler room, locker room, parts room, shop area, and office areas above the drop ceilings. These materials had isolated areas of contact and water damage. The areas are classified as Priority Level III and it is recommended the damaged areas be repaired as needed, and the materials be included in an operations and maintenance program until they can be removed during a phased abatement.

Asbestos-containing vinyl floor tiles were found in the offices on the south end of the building and by the garage. The floor tiles present little health hazard unless sawn, sanded, drilled, or altered in a way that will cause fibers to become airborne. These areas are classified as Priority Level IV. It is recommended the tiles be maintained until they are removed during a phased abatement.

PA 078901

COST ESTIMATE

BUILDING 90 - ALLIED FUEL DISTRIBUTION MAINTENANCE GARAGE

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$62,572
10% Contingency	$6,257
Total Removal/Replacement with Contingency	$68,829

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 12.4% of Total Construction Cost:	
12.4% X $68,829	$8,535
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 20 8-hour shifts:	
20 X $490	$9,800
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $68,829	$1,377
Total Project Estimate Including Professional Fees and Contingency	$88,541

PA 078902

HALL-KINBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 090

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251826	Y	Y	70	70									30		100
1 -251827	Y	Y	75	75									25		100
1 -251828	Y	Y	65	65									35		100
2 -251829	Y	Y	30	30					20				40	10 GM	100
2 -251830	Y	Y	35	35					25				30	10 GM	100
2 -251831	Y	Y	40	40					30				30		100
3 -251832	Y	Y	15	15									20	10 GM CAL 55	100
3 -251833	Y	Y	30	30									20	10 GM CAL 40	100
3 -251834	Y	Y	15	15									5	15 GM CAL 65	100
4 -251835	Y	Y	15	15									20	15 GM CAL 50	100
4 -251836	Y	Y	25	25						10			15	10 GM CAL 40	100
4 -251837	Y	Y	15	15						10			20	10 GM CAL 45	100
5 -251838	Y	Y	50	50						25				25 CAL	100
5 -251839	Y	Y	40	40						30				30 CAL	100
5 -251840	Y	Y	45	45						30				25 CAL	100
6 -251841	Y	Y	70	70					15				15		100
6 -251842	Y	Y	50	50					25				25		100
6 -251843	Y	Y	60	60					20				20		100
7 -251844	Y	Y	75	75						10			15		100
7 -251845	Y	Y	80	80						10			10		100
7 -251846	Y	Y	80	80						10			10		100
0 -251847	N	N	0						75				25		100
0 -251848	N	Y	2	2									28	70 CAL	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 87

Building Number: 090
Building Name: ALLIED FUEL DIST/MAINT GARAGE
JFK AIRPORT
Building Type: GARAGE
Constructed: 1956
Inspected: 08/02/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	ALLIED FUEL	Southwest Boiler Room					AREA AVERAGE % ASB - 70%							
		hot water tank on north wall	251826-1	boiler/tank insulation	OMB	80	sq.ft.		70	65	I	$3,826	$3,064	$6,890
			251827-1	boiler/tank insulation	OMB				75	65	I			
			251828-1	boiler/tank insulation	OMB				65	65	I			
		This material is in fair condition. The material has only minor water damage, but contact damage is easily evident. The material has been painted, but that has not prevented the contact damage from exposing the material.							AREA TOTAL			$3,826	$3,064	$6,890
02	ALLIED FUEL	Southwest Boiler Room					AREA AVERAGE % ASB - 24%							
		farthest west	251829-2	breecher/exhaust stack packing	OMB	15	sq.ft.		30	58	II	$856	$690	$1,546
			251830-2	breecher/exhaust stack packing	OMB				35	58	II			
			251831-2	breecher/exhaust stack packing	OMB				40	58	II			
		near northeast corner	251832-3	breecher/exhaust stack packing	OMB	45	sq.ft.		15	58	II	$2,568	$2,069	$4,637
			251833-3	breecher/exhaust stack packing	OMB				30	58	II			
			251834-3	breecher/exhaust stack packing	OMB				15	58	II			
		near southeast corner	251835-4	breecher/exhaust stack packing	OMB	45	sq.ft.		15	58	II	$2,568	$2,069	$4,637
			251836-4	breecher/exhaust stack packing	OMB				25	58	II			
			251837-4	breecher/exhaust stack packing	OMB				15	58	II			
		This material is in fair condition. The material is very friable and is beginning to crumble. The material can be found as debris in small quantities. There is considerable contact and water damage to the material.							AREA TOTAL			$5,992	$4,828	$10,820
03	ALLIED FUEL	Southwest Boiler Room					AREA AVERAGE % ASB - 53%							
		mostly in northwest corner	251838-5	wrapped cardboard/paper pipe	OMA	90	ft. 4 in. O.D.	DW	50	39	III	$1,080	$676	$1,756
			251839-5	wrapped cardboard/paper pipe	OMA				40	39	III			
			251840-5	wrapped cardboard/paper pipe	OMA				45	39	III			
		mostly in northwest corner	251841-6	mjp on wrapped cardboard/paper	OMA	25	4 in. O.D.	DW	70	39	III	$945	$525	$1,470
			251842-6	mjp on wrapped cardboard/paper	OMA				50	39	III			
			251843-6	mjp on wrapped cardboard/paper	OMA				60	39	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in good condition. The material has very little water damage and the contact damage is only minor.							AREA TOTAL			$2,025	$1,201	$3,226
04	ALLIED FUEL	Southwest Boiler Room-Near Ceiling					AREA AVERAGE % ASB - 78%							
		on top of west boiler	251844-7	corrugated pipe covering	OMA	20	ft. 4 in. O.D.	DW	75	36	III	$240	$150	$390
			251845-7	corrugated pipe covering	OMA				80	36	III			
			251846-7	corrugated pipe covering	OMA				80	36	III			
		This material is in good condition. The material has only minor contact or water damage.							AREA TOTAL			$240	$150	$390
05	ALLIED FUEL	Locker Room & Parts Room					AREA AVERAGE % ASB - 53%							
		center of rooms	251838-5	wrapped cardboard/paper pipe	OMA	110	ft. 4 in. O.D.	DW	50	38	III	$1,320	$826	$2,146
			251839-5	wrapped cardboard/paper pipe	OMA				40	38	III			
			251840-5	wrapped cardboard/paper pipe	OMA				45	38	III			
		center of rooms	251841-6	mjp on wrapped cardboard/paper	OMA	25	4 in. O.D.	DW	70	38	III	$945	$525	$1,470
			251842-6	mjp on wrapped cardboard/paper	OMA				50	38	III			
			251843-6	mjp on wrapped cardboard/paper	OMA				60	38	III			
		The material is in good condition, with most of the material being 10' off the floor.							AREA TOTAL			$2,265	$1,351	$3,616
06	ALLIED FUEL	Shop Area-Pump Room					AREA AVERAGE % ASB - 53%							
		north garage-truck bay-south garage	251838-5	wrapped cardboard/paper pipe	OMA	250	ft. 4 in. O.D.	DW	50	36	III	$3,000	$1,878	$4,878
			251839-5	wrapped cardboard/paper pipe	OMA				40	36	III			
			251840-5	wrapped cardboard/paper pipe	OMA				45	36	III			
		north garage-truck bay-south garage	251841-6	mjp on wrapped cardboard/paper	OMA	100	4 in. O.D.	DW	70	36	III	$3,780	$2,100	$5,880
			251842-6	mjp on wrapped cardboard/paper	OMA				50	36	III			
			251843-6	mjp on wrapped cardboard/paper	OMA				60	36	III			

PA 078905

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 87

Building Number: 090 Page 3
Building Name: ALLIED FUEL DIST/MAINT GARAGE
JFK AIRPORT
Building Type: GARAGE
Constructed: 1956
Inspected: 08/02/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in good condition. The material has only minor contact and water damage. The material's location helps prevent extensive damage.							AREA TOTAL			$6,780	$3,978	$10,758
07	ALLIED FUEL	Office Space					AREA AVERAGE % ASB - 53%							
		above drop ceiling	251838-5	wrapped cardboard/paper pipe	OMA	90 ft. 4 in. O.D.		DW	50	24	III	$1,080	$676	$1,756
			251839-5	wrapped cardboard/paper pipe	OMA				40	24	III			
			251840-5	wrapped cardboard/paper pipe	OMA				45	24	III			
		above drop ceiling	251841-6	mjp on wrapped cardboard/paper	OMA	20 4 in. O.D.		DW	70	24	III	$756	$420	$1,176
			251842-6	mjp on wrapped cardboard/paper	OMA				50	24	III			
			251843-6	mjp on wrapped cardboard/paper	OMA				60	24	III			
		This material is in good condition. The material has only minor contact and water damage.							AREA TOTAL			$1,836	$1,096	$2,932
08	ALLIED FUEL	Office Space-Floors					AREA AVERAGE % ASB - 2%							
		offices on south end & office by garage	251848-0	vinyl floor tile	OMZ	3000 sq.ft.			2	6	IV	$13,620	$10,320	$23,940
		This material is worn, but in good condition. The material has only minor contact and water damage. This area is frequently accessed.							AREA TOTAL			$13,620	$10,320	$23,940
09	ALLIED FUEL	Office Space-Ceiling					AREA AVERAGE % ASB - 0%							
		offices on south end	251847-0	acoustical tile	OMG	3000 sq.ft.			0					
									AREA TOTAL			$0	$0	$0
							TENANT - ALLIED FUEL		TOTAL			$36,584	$25,988	$62,572

PA 078906

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 87

Building Number: 090
Building Name: ALLIED FUEL DIST/MAINT GARAGE
JFK AIRPORT
Building Type: GARAGE
Constructed: 1956
Inspected: 08/02/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								BUILDING TOTAL				$36,584	$25,988	$62,572

BUILDING 93
EASTERN AIRLINES STORAGE BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 93 - EASTERN AIRLINES STORAGE BUILDING

This building is a one-story storage facility. It was built in 1956 by Eastern Airlines of cinder block and has a flat built up roof. It is used to store bottled gasses. The building is heated using electric space heaters.

No asbestos-containing materials were identified within the building; however, the roofing material was determined to contain asbestos. The roofing material was in fair condition at the time of inspection with localized areas of weather damage apparent. The roofing material should be incorporated in an operations and maintenance program to periodically monitor the material for any future damage prior to removal when the facility is reroofed. Any damage should be repaired as needed.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078911

COST ESTIMATE

BUILDING 93 - EASTERN AIRLINES STORAGE BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$6,537
10% Contingency	$654
Total Removal/Replacement with Contingency	$7,191

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 078912

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 093

				ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
0 -216334	N	Y	15	15					30					55 TAR	100

PA 078913

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 33

Building Number: 093
Building Name: EASTERN AIRLINES STORAGE BLDG #93
JFK AIRPORT
Building Type: STORAGE
Constructed: 1956
Inspected: 05/31/88
Inspector: D.L. STEPHENS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	EASTERN AIR	Roof Area												
							AREA AVERAGE % ASB - 15%							
		throughout	216334-0	roofing tar paper/roofing felt	OHZ	950	sq.ft.		15	25	III	$3,924	$2,613	$6,537
		The material is a roofing felt/tar paper and is in fair condition, with some areas of weather deterioration.												
								AREA TOTAL				$3,924	$2,613	$6,537
							TENANT - EASTERN AIR			TOTAL		$3,924	$2,613	$6,537
								BUILDING TOTAL				$3,924	$2,613	$6,537

PA 078914

BUILDING 94
TWA HANGAR 12/FLAMMABLE STORAGE BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 94 - TWA HANGAR 12/FLAMMABLE STORAGE BUILDING

The TWA Flammable Storage Building is a small (50 feet by 25 feet) cinder block structure with concrete floors and corrugated steel roofing. The building has two main rooms - the south room, which is used for general storage, and the north room or triturator room, which is used for airplane waste disposal.

Asbestos-containing materials identified in the building were pipe insulation and associated mudded joint packings on steam and condensate lines. The steam lines are mainly insulated with corrugated pipe covering, although small areas of preformed magnesia insulation were observed. All condensate lines were insulated with preformed magnesia lagging.

The pipe insulations in the north room were in poor condition. Extensive repair is recommended as an interim control method until removal becomes feasible. The material in the south room is in much better condition with only minor areas of contact and water damage. These small areas of damage should be repaired as needed until removal becomes feasible.

All asbestos-containing materials should be incorporated in an operations and maintenance program to periodically monitor the materials for future damage until total removal becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078918

COST ESTIMATE

BUILDING 94 - TWA HANGAR 12/FLAMMABLE STORAGE BUILDING

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$11,817
10% Contingency	$1,182
Total Removal/Replacement with Contingency	$12,999

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 078919

PHOTOGRAPH LOG

BUILDING 94 - TWA HANGAR 12/FLAMMABLE STORAGE BUILDING

Picture #	Description
1	Damaged pipe insulation.

PA 078920

1

C-LINE #52584
35MM PRINTS

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 094

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251286	Y	Y	35	35						50			15		100
1 -251287	Y	Y	25	25						55			20		100
1 -251288	Y	Y	25	25						55			20		100
2 -251289	Y	Y	5	5					50				45		100
2 -251290	Y	Y	3	3					42				55		100
2 -251291	Y	Y	10	10					50				30	10 GM	100
3 -251292	Y	Y	40	10	30								60		100
3 -251293	Y	Y	40	10	30								60		100
3 -251294	Y	Y	40	10	30								60		100
4 -251295	Y	Y	95	90	5								5		100
4 -251296	Y	Y	90	90					5				5		100
4 -251297	Y	Y	90	85	5								10		100
5 -251298	Y	Y	80	40	40								20		100
5 -251299	Y	Y	75	35	40								25		100
5 -251300	Y	Y	75	40	35								25		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 79

Building Number: 094
Building Name: TWA FLAMMABLE STORAGE JFK AIRPORT
Building Type: SHED
Constructed: 1958
Inspected: 07/28/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TWA	North & South Rooms					AREA AVERAGE % ASB - 38%							
		south room-west half-at ceiling	251286-1	corrugated pipe covering	OMA	125	ft. 4 in. O.D.	LPS	35	21	III	$1,500	$939	$2,439
			251287-1	corrugated pipe covering	OMA				25	21	III			
			251288-1	corrugated pipe covering	OMA				25	21	III			
		south room-west half-at ceiling	251289-2	mjp on corrugate pipe covering	OMA	20	4 in. O.D.	LPS	5	21	III	$756	$420	$1,176
			251290-2	mjp on corrugate pipe covering	OMA				3	21	III			
			251291-2	mjp on corrugate pipe covering	OMA				10	21	III			
		both rooms-at ceiling	251292-3	pipe covering	OMA	175	ft. 4 in. O.D.	CON	40	21	III	$2,100	$1,314	$3,414
			251294-3	pipe covering	OMA				40	21	III			
			251293-4	pipe covering	OMA				40	21	III			
		both rooms-at ceiling	251295-4	mjp on pipe covering	OMA	40	4 in. O.D.	CON	95	21	III	$1,512	$840	$2,352
			251296-4	mjp on pipe covering	OMA				90	21	III			
			251297-4	mjp on pipe covering	OMA				90	21	III			
		This material is in good condition. The material has only minor contact and water damage.							AREA TOTAL			$5,868	$3,513	$9,381
02	TWA	North Room					AREA AVERAGE % ASB - 37%							
		northeast corner of room	251286-1	corrugated pipe covering	OMA	50	ft. 4 in. O.D.	LPS	35	90	I	$600	$376	$976
			251287-1	corrugated pipe covering	OMA				25	90	I			
			251288-1	corrugated pipe covering	OMA				25	90	I			
		northeast corner of room	251289-2	mjp on corrugate pipe covering	OMA	20	4 in. O.D.	LPS	5	90	I	$756	$420	$1,176
			251290-2	mjp on corrugate pipe covering	OMA				3	90	I			
			251291-2	mjp on corrugate pipe covering	OMA				10	90	I			
		northeast corner of room	251298-5	pipe covering	OMA	10	ft. 6 in. O.D.	CON	80	90	I	$175	$109	$284
			251299-5	pipe covering	OMA				75	90	I			
			251300-5	pipe covering	OMA				75	90	I			
		This material is in poor condition. The contact and water damage to the material is extensive and widespread. The material has severely deteriorated and exposed.							AREA TOTAL			$1,531	$905	$2,436

PA 078923

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 79

Building Number: 094 Page 2
Building Name: TWA FLAMMABLE STORAGE JFK AIRPORT
Building Type: SHED
Constructed: 1958
Inspected: 07/28/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							TENANT - TWA			TOTAL		$7,399	$4,418	$11,817
								BUILDING TOTAL				$7,399	$4,418	$11,817

PA 078924

BUILDING 95
TWA HANGAR 12/COMMISSARY

FINDINGS AND OBSERVATIONS

BUILDING 95 - TWA HANGAR 12/COMMISSARY

Building 95 was built in 1965 and was originally used as a commissary. An addition was built and remodeling took place in 1968.

Ex. 4

The building has a flat, built-up roof; brick walls; and concrete floors and ceilings. The building is essentially one-story but has some unique characteristics.

Ex. 4

These two buildings are approximately 40 feet apart.

Ex. 4

When the building was ren ated, all the crawl space systems were abandoned. The pipes are still hanging intact but all of the insulation has been stripped off and now can be found as debris. Because of the loose sand floor, some of the material has become incorporated into the sand. The crawl space is infrequently accessed and can be entered only through two trap doors in the floor (one on the south and the other on the north). Two types of pipe insulation were found and sampled. The majority of the debris is asbestos-containing pipe insulation. A small amount of nonasbestos cardboard debris was also found. The debris should be cleaned up as soon as possible. Until this time, access to the area should be restricted.

Fireproofing was found in the new (1968) addition on all structural steel I-beams. The material is generally in good condition; however, the inherent friability of the material, along with the presence of a strong air plenum in places, could create potentially hazardous situations. The fireproofing is located above a drop ceiling throughout the building except where fully exposed in the second floor boiler room. Some debris was noted in the boiler room where the fireproofing has delaminated. This debris should be cleaned up as soon as possible. The potential for disturbance and consequent hazards will exist as long as the fireproofing remains in its present state. Encapsulation of this type of material is not generally recommended and, therefore, removal or permanent enclosure is the only viable abatement option.

Asbestos-containing mudded joint packing was found throughout the building on fittings associated with heating and domestic water lines. The material is in good condition with only minor areas of contact and water damage. These areas should be repaired by rewrapping in canvas or covering in a protective metal or plastic sleeve.

Vinyl asbestos floor tiles were identified throughout the first floor. Floor tiles are generally not considered a hazard unless cut, sanded, drilled, or disturbed in other ways which may promote fiber release.

All asbestos-containing materials should be managed under a proper operations and maintenance program as long as they are present in the building. This program should include the training of employees and periodic monitoring of the materials to insure that hazardous situations do not develop.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078928

COST ESTIMATE

BUILDING 95 - TWA HANGAR 12/COMMISSARY

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$45,890
10% Contingency	$4,589
Total Removal/Replacement with Contingency	$50,578

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 14.1% of Total Construction Cost:

14.1% X $50,578	$7,131

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 17 8-hour shifts:

17 X $490	$8,330

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $50,578	$1,012

Total Project Estimate Including Professional Fees and Contingency	$67,051

PA 078929

COST ESTIMATE

BUILDING 95 - TWA HANGAR 12/COMMISSARY

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$256,740
10% Contingency	$25,674
Total Removal/Replacement with Contingency	$282,414

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 8.2% of Total Construction Cost:	
8.2% X $282,414	$23,158
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 59 8-hour shifts:	
59 X $490	$28,910
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $282,414	$5,648
Total Project Estimate Including Professional Fees and Contingency	$340,130

PA 078930

COST ESTIMATE

BUILDING 95 - TWA HANGAR 12/COMMISSARY

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$15,213
10% Contingency	$1,521
Total Removal/Replacement with Contingency	$16,734

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at Minimum Fee:	$6,000
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $16,734	$335
Total Project Estimate Including Professional Fees and Contingency	$29,929

PA 078931

COST ESTIMATE

BUILDING 95 - TWA HANGAR 12/COMMISSARY

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$316,344
10% Contingency	$31,634
Total Removal/Replacement with Contingency	$347,978

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 7.9% of Total Construction Cost:	
7.9% X $347,978	$27,490
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 70 8-hour shifts:	
70 X $490	$34,300
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $347,978	$6,960
Total Project Estimate Including Professional Fees and Contingency	$416,728

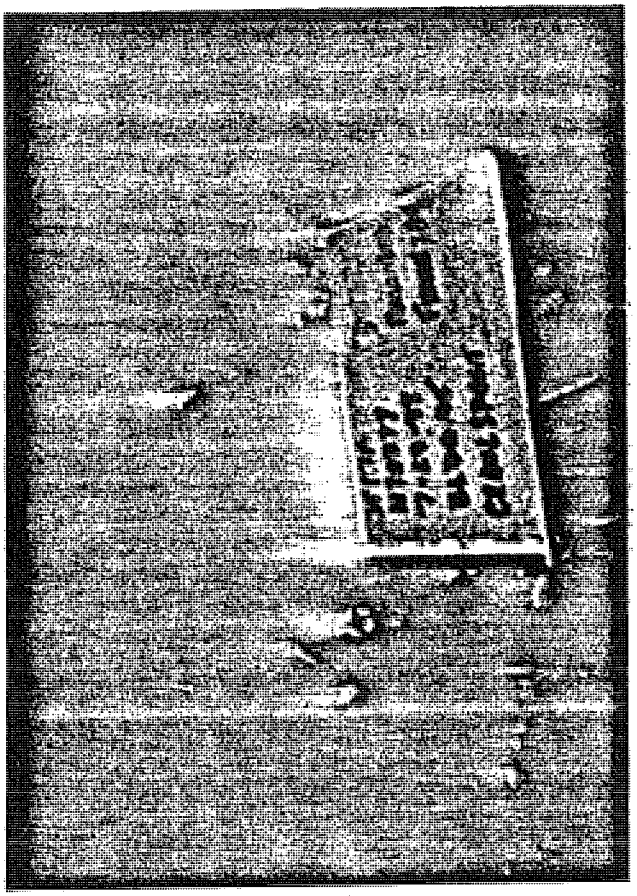
PA 078932

PHOTOGRAPH LOG

BUILDING 95 - TWA HANGAR 12/COMMISSARY

Picture #	Description
1	Flight simulator, crawl space, debris.

PA 078933



1

C-LINE #52584
35MM PRINTS

PA 078934

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 095

				ASBESTOS					OTHER MATERIALS									
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER				TOTAL
1 -251401	Y	Y	60	60					15				10	5	D	GM	10	100
1 -251402	Y	Y	55	55					15				25	5	D			100
1 -251403	Y	Y	45	45					20	5			25	5	D			100
2 -251404	Y	N	0							90			10					100
2 -251405	Y	N	0							90			10					100
2 -251406	Y	N	0							90			10					100
3 -251407	Y	Y	60	60						25			15					100
3 -251408	Y	Y	55	55						25			20					100
3 -251409	Y	Y	55	55						30			15					100
4 -251410	Y	Y	65	65						5			20	10	CA			100
4 -251411	Y	Y	60	60									30	10	CA			100
4 -251412	Y	Y	65	65									25	10	CA			100
0 -251413	N	N	0						60	25			15					100
5 -251414	Y	Y	25	25					5	5	15		50					100
5 -251415	Y	Y	25	25							30		40	5	GM			100
5 -251416	Y	Y	30	30					5		25		35	5	GM			100
5 -251417	Y	Y	25	25							40		35					100
5 -251418	Y	Y	20	20						5	35		40					100
5 -251419	Y	Y	30	30							35		35					100
5 -251420	Y	Y	20	20							45		30	5	GM			100
0 -251421	N	Y	2	2									28	70	CA			100
6 -251422	Y	Y	35	35					20				20	15	D	GM	10	100
6 -251423	Y	Y	30	30					25				35	10	D			100
6 -251424	Y	Y	25	25					30				25	15	D	GM	5	100
7 -251425	Y	Y	20	20							40		25	15	GM			100
7 -251426	Y	Y	30	30						5	40		20	5	GM			100
7 -251427	Y	Y	25	25							35		30	10	GM			100
0 -251428	N	N	0										10	90	COT			100
8 -251429	Y	Y	40	40					20				20	5	GM	D	15	100
8 -251430	Y	Y	35	35					20	5			20	20	D			100
8 -251431	Y	Y	30	30					40				15	15	D			100
9 -251432	Y	Y	25	25					25	10			30	10	D			100
9 -251433	Y	Y	40	40					20				30	10	D			100
9 -251434	Y	Y	20	20					25	15			30	10	D			100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 73

Building Number: 095
Building Name: TWA SIMULATOR/HANGER #12
JFK AIRPORT
Building Type: OFFICE
Constructed: 1965
Inspected: 07/28/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TWA	Crawl Space					AREA AVERAGE % ASB - 63%							
		around perimeter	251410-4	mjp on non-suspect pipe cover	OMA	25	4 in. O.D.	DW	65	18	IV	$945	$525	$1,470
			251411-4	mjp on non-suspect pipe cover	OMA				60	18	IV			
			251412-4	mjp on non-suspect pipe cover	OMA				65	18	IV			
		This material is in good condition. The material has only minor contact or water damage.							AREA TOTAL			$945	$525	$1,470
02	TWA	Crawl Space-On Floor					AREA AVERAGE % ASB - 29%							
		throughout	251404-2	debris	OMF	100	sq.ft.		0					
			251405-2	debris	OMF				0					
			251406-2	debris	OMF				0					
		throughout	251407-3	debris	OMF	1500	sq.ft.		60	60	I	$5,160	$0	$5,160
			251408-3	debris	OMF				55	60	I			
			251409-3	debris	OMF				55	60	I			
		The maaterial is debris from abandoned mechanical systems. The area is a crawl space that is seldom accessed. The area has a dirt floor and some of the material is integrated in the flooring. The quantity of debris is very large, but the quantities given here are estimates due to some of the material not being readily visible.							AREA TOTAL			$5,160	$0	$5,160
03	TWA	1st Floor-Lower Ceiling					AREA AVERAGE % ASB - 0%							
		throughout entire area	251413-0	acoustical tile	OMG	38000	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
04	TWA	1st Floor-Ceiling					AREA AVERAGE % ASB - 25%							
		new addition on stel I-beams	251414-5	fireproofing	OMC	6000	sq.ft.		25	42	II	$216,660	$40,080	$256,740
			251415-5	fireproofing	OMC				25	42	II			
			251416-5	fireproofing	OMC				30	42	II			

PA 078936

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			251417-5	fireproofing	OMC				25	42	II			
			251418-5	fireproofing	OMC				20	42	II			
			251419-5	fireproofing	OMC				30	42	II			
			251420-5	fireproofing	OMC				20	42	II			
		This material is in good condition. The material does not have any water damage and only isolated and minor contact damage. A strong air plenum exists over the material in one location. Some ceiling tiles are missing in a few places which does increase the exposure to building occupants.							AREA TOTAL			$216,660	$40,080	$256,740
05	TWA	1st Floor-Floors					AREA AVERAGE % ASB - 2%							
		throughout entire area	251421-0	vinyl floor tile	OMZ	35000	sq.ft.		2	17	IV	$158,900	$120,400	$279,300
		The material is in good condition. The material has minor contact and water damage. This area is frequently accessed.							AREA TOTAL			$158,900	$120,400	$279,300
06	TWA	1st Floor-Above Ceiling					AREA AVERAGE % ASB - 37%							
		throughout entire area	251401-1	mjp on non-suspect pipe cover	OMA	195	4 in. O.D.	DW	60	15	IV	$7,371	$4,095	$11,466
			251402-1	mjp on non-suspect pipe cover	OMA				55	15	IV			
			251403-1	mjp on non-suspect pipe cover	OMA				45	15	IV			
		throughout entire area	251422-6	mjp on non-suspect pipe cover	OMA	80	4 in. O.D.	HWS/R	35	15	IV	$3,024	$1,680	$4,704
			251423-6	mjp on non-suspect pipe cover	OMA				30	15	IV			
			251424-6	mjp on non-suspect pipe cover	OMA				25	15	IV			
		throughout entire area	251429-8	mjp on non-suspect pipe cover	OMA	125	4 in. O.D.	LPS	40	15	IV	$4,725	$2,625	$7,350
			251430-8	mjp on non-suspect pipe cover	OMA				35	15	IV			
			251431-8	mjp on non-suspect pipe cover	OMA				30	15	IV			
		throughout entire area	251432-9	mjp on non-suspect pipe cover	OMA	205	4 in. O.D.	CHS/R	25	15	IV	$7,749	$4,305	$12,054
			251433-9	mjp on non-suspect pipe cover	OMA				40	15	IV			
			251434-9	mjp on non-suspect pipe cover	OMA				20	15	IV			
		This material is in good condition. The material has only minor contact or water damage. Ceiling tiles are missing in a few isolated areas increasing the exposure to the material in those areas.							AREA TOTAL			$22,869	$12,705	$35,574

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 73

Building Number: 095
Building Name: TWA SIMULATOR/HANGER #12
JFK AIRPORT
Building Type: OFFICE
Constructed: 1965
Inspected: 07/28/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	TWA	1st Floor					AREA AVERAGE % ASB - 53%							
		supply rooms-hallway-closets	251401-1	mjp on non-suspect pipe cover	OMA	25	4 in. O.D.	DW	60	35	III	$945	$525	$1,470
			251402-1	mjp on non-suspect pipe cover	OMA				55	35	III			
			251403-1	mjp on non-suspect pipe cover	OMA				45	35	III			
		This material is in good condition. The material has minor contact and water damage. The material location is such that the potential exists for future damage.						AREA TOTAL				$945	$525	$1,470
08	TWA	2nd Floor-Fan Room					AREA AVERAGE % ASB - 32%							
		throughout-along duct	251429-8	mjp on non-suspect pipe cover	OMA	55	4 in. O.D.	LPS	40	31	III	$2,079	$1,155	$3,234
			251430-8	mjp on non-suspect pipe cover	OMA				35	31	III			
			251431-8	mjp on non-suspect pipe cover	OMA				30	31	III			
		throughout-along duct	251432-9	mjp on non-suspect pipe cover	OMA	90	4 in. O.D.	CHS/R	25	31	III	$3,402	$1,890	$5,292
			251433-9	mjp on non-suspect pipe cover	OMA				40	31	III			
			251434-9	mjp on non-suspect pipe cover	OMA				20	31	III			
								AREA TOTAL				$5,481	$3,045	$8,526
09	TWA	2nd Floor-Boiler Room					AREA AVERAGE % ASB - 0%							
		in center of room	251428-0	vibration joint cloth	OMZ	6	sq.ft.		0					
								AREA TOTAL				$0	$0	$0
10	TWA	2nd Floor-Boiler Room					AREA AVERAGE % ASB - 25%							
		on steel I-beams	251425-7	fireproofing	OMC	1000	sq.ft.		20	72	I	$34,050	$6,680	$40,730
			251426-7	fireproofing	OMC				30	72	I			
			251427-7	fireproofing	OMC				25	72	I			

PA 078938

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 73

Building Number: 095
Building Name: TWA SIMULATOR/HANGER #12
JFK AIRPORT
Building Type: OFFICE
Constructed: 1965
Inspected: 07/28/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in fair condition with moderate contact damage. Some small amounts of debris from this material is visible.							AREA TOTAL			$34,050	$6,680	$40,730
11	TWA	2nd Floor-Boiler Room					AREA AVERAGE % ASB - 31%							
		around boiler & duct work	251422-6	mjp on non-suspect pipe cover	OMA	45	4 in. O.D.	HWS/R	35	20	III	$1,701	$945	$2,646
		around boiler & duct work	251422-6	mjp on non-suspect pipe cover	OMA	25	8 in. O.D.	HWS/R	35	20	III	$1,619	$952	$2,571
			251423-6	mjp on non-suspect pipe cover	OMA				30	20	III			
			251424-6	mjp on non-suspect pipe cover	OMA				25	20	III			
		This material is in good condition. The material is canvass wrapped and is in good condition. The material has only minor contact and water damage.							AREA TOTAL			$3,320	$1,897	$5,217
							TENANT - TWA		TOTAL			$448,330	$185,857	$634,187
								BUILDING TOTAL				$448,330	$185,857	$634,187

PA 078939

BUILDING 96
TWA HANGAR 12/MAINTENANCE GARAGE

FINDINGS AND OBSERVATIONS

BUILDING 96 - TWA HANGAR 12/MAINTENANCE GARAGE

The TWA Garage Building is used for maintenance of TWA's ground vehicles.

Ex. 4

The garage is heated by steam heated forced-air.

Asbestos-containing materials were found in the form of pipe insulation on steam and domestic water lines, water tank insulation, transite-type siding, fireproofing, and roofing tar paper. The asbestos-containing pipe insulation was found in two varieties, a corrugated paper and a wrapped cardboard insulation. The pipe insulation was found in good condition in the first floor garage area, locker room, and break room. Pipe insulation found in the boiler room was in much poorer condition with extensive contact and water damage. Debris from damaged pipe insulation was noted on the boiler room floor. This debris should be cleaned up as soon as possible and the damaged insulation should be repaired. Due to the extent of the damage, it may be more cost efficient to remove the pipe insulation in the boiler room. Also found in the boiler room was asbestos-containing insulation on the hot water tank. This material was in good condition and well encapsulated, requiring no immediate abatement action.

Fireproofing was found on the ceiling of the parts room. Although the material is presently in good condition, a high propensity for damage exists. The material would be difficult to effectively encapsulate, therefore, removal or permanent enclosure is the only viable abatement option.

A small amount of asbestos-containing roofing tar paper was found on a fan unit in the roof. Roofing tar paper is generally considered nonhazardous unless cut, drilled, or disturbed in a manner which promotes fiber release. Similarly, transite-type siding was located on the exterior of the building. This siding presently poses little exposure potential; however, proper abatement procedures should be followed if renovation or demolition dictates removal.

As long as asbestos-containing materials are present in the building, a proper operations and maintenance program should be developed to insure that hazardous situations do not develop.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078943

COST ESTIMATE

BUILDING 96 - TWA HANGAR 12/MAINTENANCE GARAGE

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$97,241
10% Contingency	$9,724
Total Removal/Replacement with Contingency	$106,965

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 10.8% of Total Construction Cost:

10.8% X $106,965	$11,552

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 28 8-hour shifts:

28 X $490	$13,720

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $106,965	$2,139

Total Project Estimate Including Professional Fees and Contingency	$134,376

PA 078944

COST ESTIMATE

BUILDING 96 - TWA HANGAR 12/MAINTENANCE GARAGE

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$52,808
10% Contingency	$5,281
Total Removal/Replacement with Contingency	$58,089

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 13.3% of Total Construction Cost:	
13.3% X $58,089	$7,726
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 18 8-hour shifts:	
18 X $490	$8,820
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $58,089	$1,162
Total Project Estimate Including Professional Fees and Contingency	$75,797

PA 078945

COST ESTIMATE

BUILDING 96 - TWA HANGAR 12/MAINTENANCE GARAGE

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$7,720
10% Contingency	$772
Total Removal/Replacement with Contingency	$8,492

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 078946

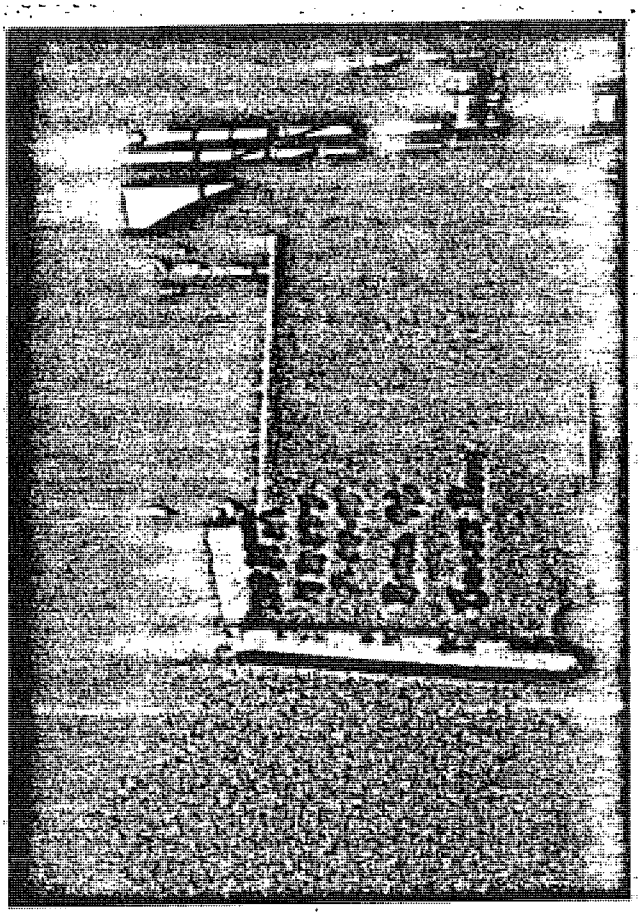
PHOTOGRAPH LOG

BUILDING 96 - TWA HANGAR 12/MAINTENANCE GARAGE

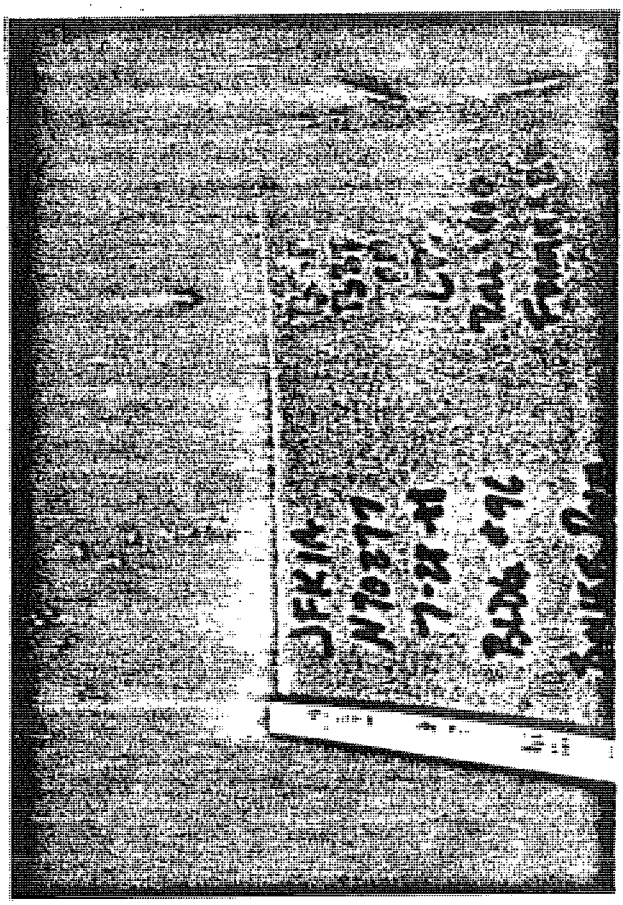
Picture #	Description
1	Boiler Room, damaged pipe insulation on domestic water piping.
2	Boiler Room, damaged pipe insulation on hot water piping.

PA 078947

96



1



2

C-LINE #52584
35MM PRINTS

PA 078948

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 096

			ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251257	Y	Y	80	40	40								20		100
1 -251258	Y	Y	80	60	20								20		100
1 -251259	Y	Y	80	40	40								20		100
2 -251260	Y	Y	3	3						82			15		100
2 -251261	Y	Y	2	2						83			15		100
2 -251262	Y	Y	2	2						88			10		100
3 -251263	Y	Y	45	45									55		100
3 -251264	Y	Y	70	70									30		100
3 -251265	Y	Y	70	70									30		100
4 -251266	Y	Y	75	75						10			15		100
4 -251267	Y	Y	85	85						10			5		100
4 -251268	Y	Y	80	80						10			10		100
5 -251269	Y	Y	65	65									35		100
5 -251270	Y	Y	65	65									25	10 GM	100
5 -251271	Y	Y	60	60									25	15 GM	100
6 -251272	Y	Y	65	65						15			20		100
6 -251273	Y	Y	65	65						15			20		100
6 -251274	Y	Y	70	70						10			20		100
7 -251275	Y	N	0								40		45	15 GM	100
7 -251276	Y	N	0								35		45	20 GM	100
7 -251277	Y	N	0								45		45	10 GM	100
8 -251278	Y	Y	10	10							50		40		100
8 -251279	Y	Y	10	10							55		35		100
8 -251280	Y	Y	15	15							50		35		100
8 -251281	Y	Y	10	10							50		35	5 GM	100
8 -251282	Y	Y	10	10							55		25	10 GM	100
0 -251283	N	N	0						60				30	10 GM	100
0 -251284	N	Y	40	40									35	25 GM	100
0 -251285	N	Y	45	45						40			15		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 80

Building Number: 096
Building Name: TWA GARAGE
JFK AIRPORT
Building Type: SHOP
Constructed: 1965
Inspected: 07/28/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	TWA	Garage					AREA AVERAGE % ASB - 40%							
		outside south-east & west walls	251284-0	Transite siding	OMZ	1000	sq.ft.		40	6	IV	$2,410	$4,810	$7,220
		This material is in good condition. The material has some localized contact damage.									AREA TOTAL	$2,410	$4,810	$7,220
02	TWA	1st Floor					AREA AVERAGE % ASB - 52%							
		garage area-locker room-break room	251260-1	wrapped cardboard/paper pipe	OMA	350	ft. 4 in. O.D.	DW	3	36	III	$4,200	$2,629	$6,829
			251261-1	wrapped cardboard/paper pipe	OMA				2	36	III			
			251262-1	wrapped cardboard/paper pipe	OMA				2	36	III			
		garage area-locker room-break room	251263-2	mjp on wrapped cardboard/paper	OMA	80	4 in. O.D.	DW	45	36	III	$3,024	$1,680	$4,704
			251264-2	mjp on wrapped cardboard/paper	OMA				70	36	III			
			251265-2	mjp on wrapped cardboard/paper	OMA				70	36	III			
		garage area-locker room-break room	251266-3	corrugated pipe covering	OMA	410	ft. 4 in. O.D.	LPS	75	36	III	$4,920	$3,079	$7,999
		garage area-locker room-break room	251266-3	corrugated pipe covering	OMA	235	ft. 6 in. O.D.	LPS	75	36	III	$4,103	$2,566	$6,669
			251267-3	corrugated pipe covering	OMA				85	36	III			
			251268-3	corrugated pipe covering	OMA				80	36	III			
		garage area-locker room-break room	251269-4	mjp on corrugate pipe covering	OMA	95	4 in. O.D.	LPS	65	36	III	$3,591	$1,995	$5,586
		garage area-locker room-break room	251269-4	mjp on corrugate pipe covering	OMA	30	6 in. O.D.	LPS	65	36	III	$1,561	$917	$2,478
			251270-4	mjp on corrugate pipe covering	OMA				65	36	III			
			251271-4	mjp on corrugate pipe covering	OMA				60	36	III			
		The material is in good condition. The material has experienced only minor contact or water damage.									AREA TOTAL	$21,399	$12,866	$34,265
03	TWA	1st Floor-Shipping & Receiving Office					AREA AVERAGE % ASB - 0%							
		throughout	251283-0	acoustical tile	OMG	450	sq.ft.		0					
											AREA TOTAL	$0	$0	$0

PA 078950

H-K Building #: 80

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	TWA	1st Floor-Parts Room					AREA AVERAGE % ASB - 11%							
		throughout entire room	251278-8	fireproofing	OMC	3000	sq.ft.		10	69	I	$65,490	$15,360	$80,850
			251279-8	fireproofing	OMC				10	69	I			
			251280-8	fireproofing	OMC				15	69	I			
			251281-8	fireproofing	OMC				10	69	I			
			251282-8	fireproofing	OMC				10	69	I			
		This material is in good condition. The material does not have any water damage and the contact damage is minor. This area has rows of shelving and the top shelf is very close to the material. The potential for contact damage is high.							AREA TOTAL			$65,490	$15,360	$80,850
05	TWA	1st Floor-Boiler Room-Ceiling					AREA AVERAGE % ASB - 0%							
		throughout entire area	251275-7	trowelled acoustical plaster	OMD	1500	sq.ft.		0					
			251276-7	trowelled acoustical plaster	OMD				0					
			251277-7	trowelled acoustical plaster	OMD				0					
									AREA TOTAL			$0	$0	$0
06	TWA	1st Floor-Boiler Room					AREA AVERAGE % ASB - 2%							
		around tank & boilers	251260-2	wrapped cardboard/paper pipe	OMA	155	ft. 4 in. O.D.	DW	3	60	I	$1,860	$1,164	$3,024
			251261-2	wrapped cardboard/paper pipe	OMA				2	60	I			
			251262-2	wrapped cardboard/paper pipe	OMA				2	60	I			
		The material is in fair condition. The material has experienced locally severe contact damage; mostly near the floor. The water damage is extensive enough in areas that the material is split and the insulation is exposed.							AREA TOTAL			$1,860	$1,164	$3,024
07	TWA	1st Floor-Boiler Room					AREA AVERAGE % ASB - 80%							
		east side of room	251257-1	boiler/tank insulation	OMB	215	sq.ft.		80	39	III	$10,281	$8,234	$18,515
			251258-1	boiler/tank insulation	OMB				80	39	III			
			251259-1	boiler/tank insulation	OMB				80	39	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		This material is in good condition. The material has very little contact or water damage. The material is encapsulated in a thick coat of paint which should help prevent any further damage. The most susceptible areas to damage are the pipe connections.							AREA TOTAL			$10,281	$8,234	$18,515
08	TWA	1st Floor-Boiler Room					AREA AVERAGE % ASB - 63%							
		around tank & boiler	251263-3	mjp on wrapped cardboard/paper	OMA	55	4 in. O.D.	DW	45	87	I	$2,079	$1,155	$3,234
			251264-3	mjp on wrapped cardboard/paper	OMA				70	87	I			
			251265-3	mjp on wrapped cardboard/paper	OMA				70	87	I			
		throughout	251269-5	mjp on corrugate pipe covering	OMA	25	4 in. O.D.	LPS	65	87	I	$945	$525	$1,470
		throughout	251269-5	mjp on corrugate pipe covering	OMA	15	12 in. O.D.	LPS	65	87	I	$1,531	$957	$2,488
			251270-5	mjp on corrugate pipe covering	OMA				65	87	I			
			251271-5	mjp on corrugate pipe covering	OMA				60	87	I			
		The material is in fair condition. Localized contact and water damage to the material is evident. The damage is severe in some places that the material is degraded and crumbling and can be found as debris.							AREA TOTAL			$4,555	$2,637	$7,192
09	TWA	1st Floor-Boiler Room					AREA AVERAGE % ASB - 73%							
		throughout	251266-4	corrugated pipe covering	OMA	80	ft. 4 in. O.D.	LPS	75	99	I	$960	$601	$1,561
		throughout	251266-4	corrugated pipe covering	OMA	75	ft. 12 in. O.D.	LPS	75	99	I	$2,222	$1,709	$3,931
			251267-4	corrugated pipe covering	OMA				85	99	I			
			251268-4	corrugated pipe covering	OMA				80	99	I			
		northeast corner of room	251272-6	corrugated pipe covering	OMA	35	ft. 4 in. O.D.	DW	65	99	I	$420	$263	$683
			251273-6	corrugated pipe covering	OMA				65	99	I			
			251274-6	corrugated pipe covering	OMA				70	99	I			
		This material is in poor condition. The material has had extensive contact damage and the water damage is also severe. The damage is such that the material is exposed and can be found as debris.							AREA TOTAL			$3,602	$2,573	$6,175
10	TWA	Roof					AREA AVERAGE % ASB - 45%							
		on fan unit in northeast corner	251285-0	roofing tar paper/roofing felt	OMZ	4	sq.ft.		45	23	III	$17	$11	$28

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
This material is in good condition. The material has very minor contact and water damage, but does show wear.									AREA TOTAL			$17	$11	$28
							TENANT - TWA		TOTAL			$109,614	$47,655	$157,269
								BUILDING TOTAL				$109,614	$47,655	$157,269

BUILDING 106
PORT AUTHORITY SURVEY GROUP STOREHOUSE

FINDINGS AND OBSERVATIONS

BUILDING 106 - PORT AUTHORITY SURVEY GROUP STOREHOUSE

Building 106 is a one-story, brick building. It was constructed in 1955 and encompasses 2,380 square feet. Ex. 4 The primary occupant is the Port Authority of New York and New Jersey. The building is heated using forced-air gas space heaters. Ex. 4

Asbestos-containing materials identified in this facility include vinyl floor tiles, boiler insulation, breeching insulation, tank insulation, and transite-type siding. Damaged materials classified as Priority Level I are located in the crawl space. The pipe insulation is water damaged and in such poor condition that repair is not feasible. It is recommended the crawl space areas be abated using gross removal procedures. The rest of the asbestos-containing materials identified in this facility were in relatively good condition at the time of inspection and have been classified as Priority Level III. All asbestos-containing materials in this facility should be integrated in an operations and maintenance program to maintain the presently good condition and detect any future damage until removal becomes feasible.

The materials sampled and determined nonasbestos-containing included ceiling panels used in the drop ceiling systems and corrugated pipe covering.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078957

COST ESTIMATE

BUILDING 106 - PORT AUTHORITY SURVEY GROUP STOREHOUSE

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$32,202
10% Contingency	$3,220
Total Removal/Replacement with Contingency	$35,422

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 17.0% of Total Construction Cost:

17.0% X $35,422	$6,021

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 14 8-hour shifts:

14 X $490	$6,860

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $35,422	$708

Total Project Estimate Including Professional Fees and Contingency	$49,011

PA 078958

PHOTOGRAPH LOG

BUILDING 106 - PORT AUTHORITY SURVEY GROUP STOREHOUSE

Picture #	Description
1	Storage Shed, stored material.

PA 078959

108

1

C-LINE #52584
35MM PRINTS

PA 078960

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 106

				ASBESTOS					OTHER MATERIALS							
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER		TOTAL
0 -224079	N	Y	6	6									[illegible]	70 CAL GM	10	100
0 -224080	N	N	0						40	40			20			100
1 -226170	Y	Y	80	80									20			100
1 -226171	Y	Y	85	85									15			100
1 -226172	Y	Y	85	85									15			100
2 -226173	Y	Y	80	80									20			100
2 -226174	Y	Y	80	80									20			100
2 -226175	Y	Y	80	80									20			100
3 -226176	Y	Y	40	40					40				20			100
3 -226177	Y	Y	80	80									20			100
3 -226178	Y	Y	80	80									20			100
4 -226179	Y	N	0							80			20			100
4 -226180	Y	N	0							80			20			100
4 -226181	Y	N	0							80			20			100
0 -226182	N	Y	40	40									60			100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 45

Building Number: 106
Building Name: PORT AUTHORITY SURVEY STOREHOUSE JFK AIRPORT
Building Type: STORAGE
Constructed: 1955
Inspected: 06/09/88
Inspector: D. Stephens

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	PORT AUTHORITY	Floors					AREA AVERAGE % ASB - 6%							
		throughout	224079-0	vinyl floor tile	OMZ	2380	sq.ft.		6	24	III	$10,805	$8,187	$18,992
		The material is in fair condition, with many worn tiles.												
								AREA TOTAL				$10,805	$8,187	$18,992
02	PORT AUTHORITY	Ceiling					AREA AVERAGE % ASB - 0%							
		small locker room-throughout	224080-0	drop or lay-in panel	OMG	2380	sq.ft.		0					
								AREA TOTAL				$0	$0	$0
03	PORT AUTHORITY	Crawl Space					AREA AVERAGE % ASB - 0%							
		across ceiling	226179-4	corrugated pipe covering	OMA	5 ft. 4 in. O.D.		DW	0					
			226180-4	corrugated pipe covering	OMA				0					
			226181-4	corrugated pipe covering	OMA				0					
								AREA TOTAL				$0	$0	$0
04	PORT AUTHORITY	Crawl Space-Tanks					AREA AVERAGE % ASB - 77%							
		near east wall-boiler	226170-1	boiler/tank insulation	OMB	26	sq.ft.		80	80	I	$1,243	$996	$2,239
			226171-1	boiler/tank insulation	OMB				85	80	I			
			226172-1	boiler/tank insulation	OMB				85	80	I			
		near east wall-breecher	226173-2	breecher/exhaust stack packing	OMB	52	sq.ft.		80	80	I	$2,968	$2,391	$5,359
			226174-2	breecher/exhaust stack packing	OMB				80	80	I			
			226175-2	breecher/exhaust stack packing	OMB				80	80	I			
		near west wall-tank	226176-3	boiler/tank insulation	OMB	65	sq.ft.		40	80	I	$3,108	$2,489	$5,597
			226177-3	boiler/tank insulation	OMB				80	80	I			
			226178-3	boiler/tank insulation	OMB				80	80	I			

PA 078962

PA 078963

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The material is in poor condition and has been severely water damaged. The area is filled with trash and debris on the dirt floor. The area is rately accessed.								AREA TOTAL		$7,319	$5,876	$13,195
05	PORT AUTHORITY	Crawl Space					AREA AVERAGE % ASB - 40%							
		on top of breecher	226182-0	Transite siding	OMZ		2 sq.ft.		40	22	III	$5	$10	$15
		The material is in fair condition and located on top of the breecher. The area is filled with trash and debris, but is rarely accessed.								AREA TOTAL		$5	$10	$15
							TENANT - PORT AUTHORITY			TOTAL		$18,129	$14,073	$32,202
										BUILDING TOTAL		$18,129	$14,073	$32,202

PA 078964

BUILDING 110
AIRLINE SERVICES BUILDING

PA 078967

FINDINGS AND OBSERVATIONS

BUILDING 110 - AIRLINE SERVICES BUILDING

The Airlines Services facility is a one-story, concrete block and structural steel building with a partial second story. It was constructed in 1949 and has a built-up roof. Ex. 4 Tenants in this building at the time of the inspection included Triangle Maintenance, Air Freight, Jamaica Air, Ogden Allied, Sky Dell, KLM, Royal Air Marco, Olympic, Korean Air, Pan Am, and Air France.

Building materials confirmed by laboratory analysis to contain asbestos included corrugated and wrapped cardboard pipe insulations with mudded joint packing, vinyl floor tiles, breeching insulation, and boiler/tank insulation.

Asbestos-containing corrugated and wrapped cardboard pipe insulation with mudded joint packing, and breeching insulation are present throughout the Ogden Allied first floor boiler room. The materials were old and considerably damaged. The area was used for storage and the materials are subject to continued contact damage and resulting debris. This area has been classified as Priority Level I. It is recommended that all the materials be removed as soon as funding becomes available.

Asbestos-containing corrugated and wrapped cardboard pipe insulations with mudded joint packing were observed throughout the first floor and above the drop ceilings in all the tenant areas. The materials were in fair condition with isolated areas of contact damage. Boiler insulation and asbestos-containing pipe covering with mudded joint packing were observed in the Triangle Maintenance basement boiler room. These areas are all classified as Priority Level III. It is recommended the damaged areas be repaired as needed, and the materials included in an operations and maintenance program until they can be removed during a phased abatement.

Priority Level IV areas included corrugated and wrapped cardboard pipe insulations with mudded joint packing located in walls and restroom pipe chases throughout the building. Vinyl asbestos floor tiles were found in several office areas as listed in the spreadsheets. Floor tiles present little health hazard unless sawn, sanded, drilled, or altered in a way which causes fibers to become airborne. It is recommended all Priority Level IV materials be maintained under an operations and maintenance program until they are removed during a phased abatement.

Materials which were sampled and determined not to contain asbestos include mudded joint packing on nonsuspect pipe insulation, and lay-in ceiling panels.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078968

COST ESTIMATE

BUILDING 110 - AIRLINE SERVICES BUILDING

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$36,092
10% Contingency	$3,609
Total Removal/Replacement with Contingency	$39,701

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 16.1% of Total Construction Cost:

16.1% X $39,701 — $6,392

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 15 8-hour shifts:

15 X $490 — $7,350

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $39,701 — $794

Total Project Estimate Including Professional Fees and Contingency — $54,237

PA 078969

COST ESTIMATE

BUILDING 110 - AIRLINE SERVICES BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$79,555
10% Contingency	$7,955
Total Removal/Replacement with Contingency	$87,511

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 11.5% of Total Construction Cost:

11.5% X $87,511	$10,064

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 24 8-hour shifts:

24 X $490	$11,760

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $87,511	$1,750

Total Project Estimate Including Professional Fees and Contingency	$111,085

PA 078970

COST ESTIMATE

BUILDING 110 - AIRLINE SERVICES BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$26,228
10% Contingency	$2,623
Total Removal/Replacement with Contingency	$28,851

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at Minimum Fee:	$6,000
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 14 8-hour shifts:	
14 X $490	$6,860
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $28,851	$577
Total Project Estimate Including Professional Fees and Contingency	$42,288

PA 078971

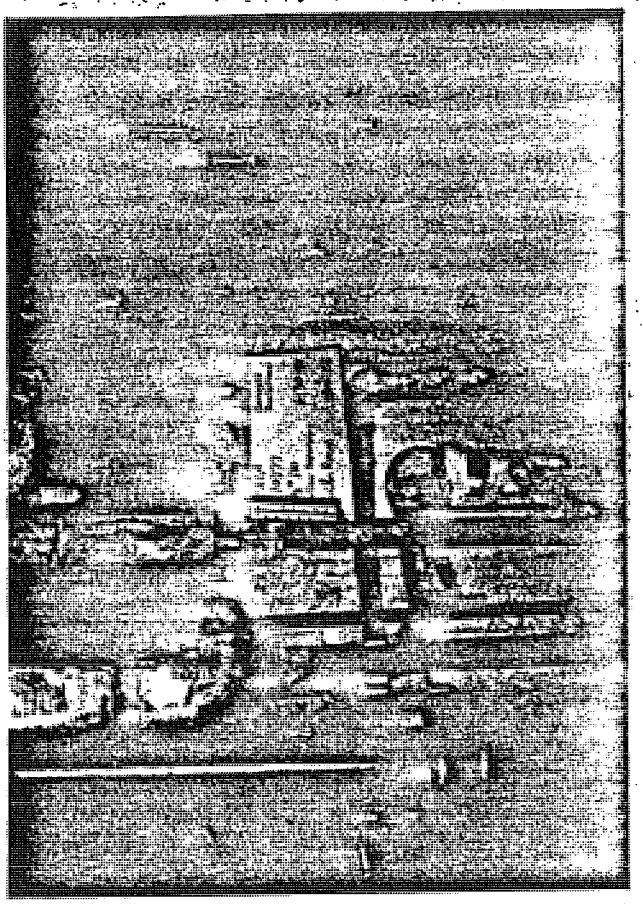
PHOTOGRAPH LOG

BUILDING 110 - AIRLINE SERVICES BUILDING

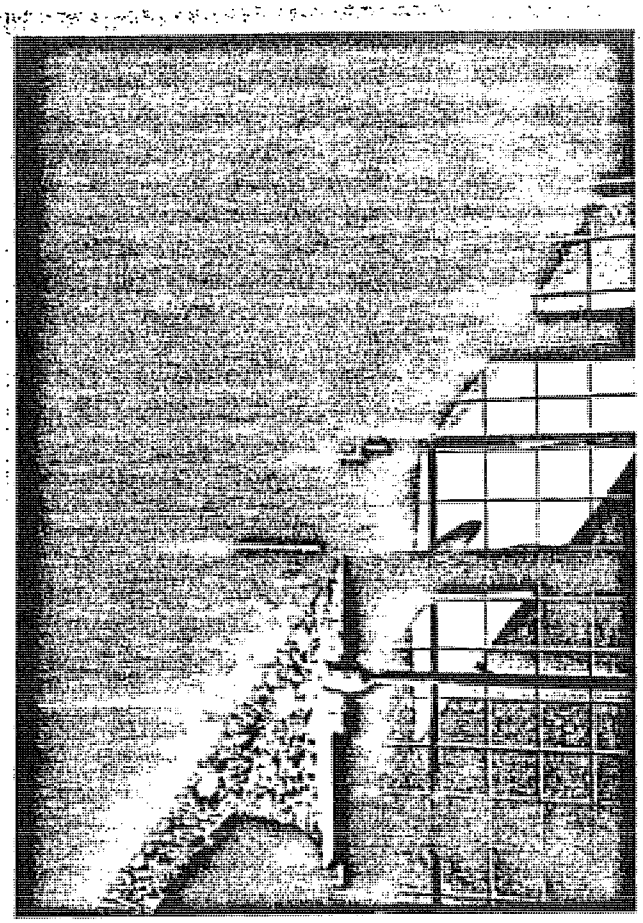
Picture #	Description
1	Boiler Room, air cell-type insulation.
2	Triangle Maintenance, exposed air cell-type insulation in restroom.

PA 078972

110



1



2

C-LINE #52584
35MM PRINTS

PA 078973

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 110

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -221401	Y	Y	65	65						10			25		100
1 -221402	Y	Y	60	60						15			25		100
1 -221403	Y	Y	70	70						10			20		100
2 -221404	Y	Y	65	65					25				10		100
2 -221405	Y	Y	60	60					20				20		100
2 -221406	Y	Y	65	65					20				15		100
3 -221407	Y	Y	20	20						65			15		100
3 -221408	Y	Y	30	30					60				10		100
3 -221409	Y	Y	25	25						65			10		100
4 -221410	Y	Y	65	65						10			25		100
4 -221411	Y	Y	65	63	2					15			20		100
4 -221412	Y	Y	65	65						15			20		100
5 -221413	Y	N	0						60				40		100
5 -221414	Y	N	0						50	10			40		100
5 -221415	Y	N	0						50	10			40		100
6 -221416	Y	Y	6	6					84				10		100
6 -221417	Y	Y	4	4						86			10		100
6 -221418	Y	Y	5	5						85			10		100
7 -221419	Y	Y	55	55						25			20		100
7 -221420	Y	Y	60	60						25			15		100
7 -221421	Y	Y	60	60						15			25		100
8 -221422	Y	N	0						45	10			45		100
8 -221423	Y	N	0						40	10			50		100
8 -221424	Y	N	0						40	10			50		100
9 -221425	Y	N	0						65				35		100
9 -221426	Y	N	0						60				40		100
9 -221427	Y	N	0						65				35		100
10 -221428	Y	Y	7	7						73			20		100
10 -221429	Y	Y	10	10						75			15		100
10 -221430	Y	Y	15	15						75			10		100
11 -221431	Y	Y	45	45						20			35		100
11 -221432	Y	Y	50	50						20			30		100
11 -221433	Y	Y	45	45						20			35		100
12 -221434	Y	Y	65	65						20			15		100
12 -221435	Y	Y	60	60						25			15		100
12 -221436	Y	Y	60	60						30			10		100
13 -221437	Y	N	0						60	10			30		100
13 -221438	Y	N	0						60	10			30		100
13 -221439	Y	Y	6	6					54	15			25		100
14 -221440	Y	Y	70	70						10			20		100
14 -221441	Y	Y	30	30					10	25			20	15 COT	100
14 -221442	Y	Y	35	35					10	20			25	10 COT	100
15 -221443	Y	Y	30	30					10	25			25	10 COT	100
15 -221444	Y	Y	35	35						30			25	10 COT	100
15 -221445	Y	Y	40	40						35			25		100
16 -221446	Y	Y	75	35	40					10			15		100
16 -221447	Y	Y	70	30	40					10			20		100
16 -221448	Y	Y	65	65						10			25		100
17 -221449	Y	Y	45	45						30			25		100
17 -221450	Y	Y	55	55						20			25		100
17 -221451	Y	Y	50	50						25			25		100
18 -221452	Y	Y	3	3					52	10			35		100
18 -221453	Y	Y	6	6					50	10			34		100
18 -221454	Y	Y	5	5					45	10			40		100
0 -221455	Y	N	0						10	50		25	15		100
19 -221456	Y	Y	30	30						60			10		100
19 -221457	Y	Y	35	35						55			10		100
19 -221458	Y	Y	30	30						55			15		100
20 -221459	Y	Y	7	7					63				30		100
20 -221460	Y	Y	9	9					61	10			20		100
20 -221461	N	Y	5	5					55	15			25		100
21 -221462	Y	Y	35	35						55			10		100
21 -221463	Y	Y	30	30						60			10		100
21 -221464	Y	Y	35	35						55			10		100
0 -221465	Y	Y	4	4									40	56 CAL	100
0 -221466	Y	Y	3	3									40	57 CAL	100

PA 078974

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 55

Building Number: 110
Building Name: AIRLINE SERVICES
JFK AIRPORT
Building Type: SERVICES
Constructed: 1949
Inspected: 06/28/88
Inspector: J. Worstell

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AIR FRANCE	1st Floor					AREA AVERAGE % ASB - 11%							
		northeast warehouse-near ceiling	221428-10	corrugated pipe covering	OMA	50	ft. 6 in. O.D.	LPS/R	7	27	III	$873	$546	$1,419
			221429-10	corrugated pipe covering	OMA				10	27	III			
			221430-10	corrugated pipe covering	OMA				15	27	III			
									AREA TOTAL			$873	$546	$1,419

The material is located on cold water lines and discontinued low pressure lines in the warehouse area. The location of this material makes it subject to contact damage, due to the high activity in this area.

TENANT - AIR FRANCE	TOTAL	$873	$546	$1,419

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 55

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	AIR FREIGHT	1st Floor-Warehouse												
							AREA AVERAGE % ASB - 33%							
		east ceiling	221456-19	corrugated pipe covering	OMA	60	ft. 4 in. O.D.	DCW	30	28	III	$720	$451	$1,171
		west ceiling & northwest wall	221456-19	corrugated pipe covering	OMA	90	ft. 4 in. O.D.	DCW	30	28	III	$1,080	$676	$1,756
			221457-19	corrugated pipe covering	OMA				35	28	III			
			221458-19	corrugated pipe covering	OMA				30	28	III			
		center of warehouse-near ceiling	221462-21	corrugated pipe covering	OMA	60	ft. 6 in. O.D.	LPS/R	35	28	III	$1,048	$655	$1,703
		center of warehouse-near ceiling	221462-21	corrugated pipe covering	OMA	70	ft. 8 in. O.D.	LPS/R	35	28	III	$1,333	$952	$2,285
			221463-21	corrugated pipe covering	OMA				30	28	III			
			221464-21	corrugated pipe covering	OMA				35	28	III			
		The material was loosely fitted around the pipes and could be dislodged if disturbed.							AREA TOTAL			$4,181	$2,734	$6,915
							TENANT - AIR FREIGHT		TOTAL			$4,181	$2,734	$6,915

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 55

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Building Type: SERVICES
Constructed: 1949
Inspected: 06/28/88
Inspector: J. Worstell

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	AIR JAMAICA	Warehouse-Near Ceiling					AREA AVERAGE % ASB - 33%							
		center warehouse-east to west	221456-19	corrugated pipe covering	OMA	60	ft. 4 in. O.D.	DCW	30	28	III	$720	$451	$1,171
			221457-19	corrugated pipe covering	OMA				35	28	III			
			221458-19	corrugated pipe covering	OMA				30	28	III			
		center warehouse	221462-21	corrugated pipe covering	OMA	30	ft. 6 in. O.D.	LPS/R	35	28	III	$524	$328	$852
		center warehouse	221462-21	corrugated pipe covering	OMA	30	ft. 4 in. O.D.	LPS/R	35	28	III	$360	$225	$585
			221463-21	corrugated pipe covering	OMA				30	28	III			
			221464-21	corrugated pipe covering	OMA				35	28	III			
									AREA TOTAL			$1,604	$1,004	$2,608

The material was loosely fitted around the pipes and could be dislodged if disturbed.

TENANT - AIR JAMAICA	TOTAL	$1,604	$1,004	$2,608

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	KLM CARGO	1st Floor-Office-Floor					AREA AVERAGE % ASB - 4%							
	throughout		221465-0	vinyl floor tile	OMZ	400	sq.ft.		4	7	IV	$1,816	$1,376	$3,192
	This material is in fair condition. This area is frequently accessed.								AREA TOTAL			$1,816	$1,376	$3,192
05	KLM CARGO	1st Floor					AREA AVERAGE % ASB - 5%							
	suspended from ceiling		221416-6	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DCW	6	27	III	$480	$300	$780
			221417-6	wrapped cardboard/paper pipe	OMA				4	27	III			
			221418-6	wrapped cardboard/paper pipe	OMA				5	27	III			
	The material is located on cold water lines and discontinued lines in the warehouse area. The location of this material makes it subject to contact damage, due to the high activity in this area.								AREA TOTAL			$480	$300	$780
							TENANT - KLM CARGO		TOTAL			$2,296	$1,676	$3,972

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 55

Building Number: 110
Building Name: AIRLINE SERVICES JFK AIRPORT
Building Type: SERVICES
Constructed: 1949
Inspected: 06/28/88
Inspector: J. Worstell

AREA #	TENANT AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
06	OLYMPIC					AREA AVERAGE % ASB -		%					
	along north wall	221428-10	corrugated pipe covering	OMA	30	ft. 4 in. O.D.	LPS/R	7	27	III	$360	$225	$585
		221429-10	corrugated pipe covering	OMA				10	27	III			
		221430-10	corrugated pipe covering	OMA				15	27	III			
	along north wall	221431-11	mjp on corrugate pipe covering	OMA	8	4 in. O.D.	LPS/R	45	27	III	$302	$168	$470
		221432-11	mjp on corrugate pipe covering	OMA				50	27	III			
		221433-11	mjp on corrugate pipe covering	OMA				45	27	III			
							AREA TOTAL				$662	$393	$1,055
						TENANT - OLYMPIC		TOTAL			$662	$393	$1,055

PA 078979

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
07	OGDEN ALLIED	1st Floor-Next To Boiler Room					AREA AVERAGE % ASB - 32%							
		center-near ceiling	221416-6	wrapped cardboard/paper pipe	OMA	125	ft. 4 in. O.D.	DCW	6	27	III	$1,500	$939	$2,439
			221417-6	wrapped cardboard/paper pipe	OMA				4	27	III			
			221418-6	wrapped cardboard/paper pipe	OMA				5	27	III			
		center-near ceiling	221419-7	mjp on wrapped cardboard/paper	OMA	16	4 in. O.D.	DCW	55	27	III	$605	$336	$941
			221420-7	mjp on wrapped cardboard/paper	OMA				60	27	III			
			221421-7	mjp on wrapped cardboard/paper	OMA				60	27	III			
		The material is located on cold water lines in the warehouse area. The location of this material makes it subject to contact damage, due to the high activity in this area.							AREA TOTAL			$2,105	$1,275	$3,380
08	OGDEN ALLIED	1st Floor-Boiler Room					AREA AVERAGE % ASB - 31%							
		boiler #2-breecher	221401-1	breecher/exhaust stack packing	OMB	14	sq.ft.		65	60	I	$799	$644	$1,443
			221402-1	breecher/exhaust stack packing	OMB				60	60	I			
			221403-1	breecher/exhaust stack packing	OMB				70	60	I			
		boiler #2	221428-10	corrugated pipe covering	OMA	10	ft. 6 in. O.D.	LPS/R	7	60	I	$175	$109	$284
			221429-10	corrugated pipe covering	OMA				10	60	I			
			221430-10	corrugated pipe covering	OMA				15	60	I			
		boiler #2	221431-11	mjp on corrugate pipe covering	OMA	7	6 in. O.D.	LPS/R	45	60	I	$364	$214	$578
			221432-11	mjp on corrugate pipe covering	OMA				50	60	I			
			221433-11	mjp on corrugate pipe covering	OMA				45	60	I			
		boiler #2-packing	221404-2	boiler/tank insulation	OMB	360	sq.ft.		65	60	I	$17,215	$13,788	$31,003
			221405-2	boiler/tank insulation	OMB				60	60	I			
			221406-2	boiler/tank insulation	OMB				65	60	I			
		boiler #2-line to dishwasher	221407-3	corrugated pipe covering	OMA	30	ft. 4 in. O.D.	DHW	20	60	I	$360	$225	$585
			221408-3	corrugated pipe covering	OMA				30	60	I			
			221409-3	corrugated pipe covering	OMA				25	60	I			
		boiler #2-line to dishwasher	221410-4	mjp on corrugate pipe covering	OMA	5	4 in. O.D.	DHW	65	60	I	$189	$105	$294
			221411-4	mjp on corrugate pipe covering	OMA				65	60	I			
			221412-4	mjp on corrugate pipe covering	OMA				65	60	I			
		boiler #2-line to kitchen	221413-5	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	DHW	0					
			221414-5	mjp on non-suspect pipe cover	OMA				0					
			221415-5	mjp on non-suspect pipe cover	OMA				0					
		south wall	221416-6	wrapped cardboard/paper pipe	OMA	20	ft. 6 in. O.D.	DCW	6	60	I	$349	$218	$567

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		south wall	221416-6	wrapped cardboard/paper pipe	OMA	30	ft. 4 in. O.D.	DCW	6	60	I	$360	$225	$585
			221417-6	wrapped cardboard/paper pipe	OMA				4	60	I			
			221418-6	wrapped cardboard/paper pipe	OMA				5	60	I			
		south wall	221419-7	mjp on wrapped cardboard/paper	OMA	2	6 in. O.D.	DCW	55	60	I	$104	$61	$165
		south wall	221419-7	mjp on wrapped cardboard/paper	OMA	10	4 in. O.D.	DCW	55	60	I	$378	$210	$588
			221420-7	mjp on wrapped cardboard/paper	OMA				60	60	I			
			221421-7	mjp on wrapped cardboard/paper	OMA				60	60	I			
		boiler #1-north wall	221422-8	mjp on non-suspect pipe cover	OMA	5	10 in. O.D.	LPS/R	0					
		boiler #1-north wall	221422-8	mjp on non-suspect pipe cover	OMA	7	6 in. O.D.	LPS/R	0					
			221423-8	mjp on non-suspect pipe cover	OMA				0					
			221424-8	mjp on non-suspect pipe cover	OMA				0					
		boiler #1-north wall	221425-9	mjp on non-suspect pipe cover	OMA	11	4 in. O.D.	CON	0					
			221426-9	mjp on non-suspect pipe cover	OMA				0					
			221427-9	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$20,293	$15,799	$36,092

The material found was showing signs of considerable aging and damage in areas. The area is also used for storage. The material is susceptible to further contact damage and debris.

09 OGDEN ALLIED 1st Floor — AREA AVERAGE % ASB - 21%

pipe chase to restrooms	221413-5	mjp on non-suspect pipe cover	OMA	15	4 in. O.D.	DHW	0						
	221414-5	mjp on non-suspect pipe cover	OMA				0						
	221415-5	mjp on non-suspect pipe cover	OMA				0						
pipe chase to restrooms	221416-6	wrapped cardboard/paper pipe	OMA	80	ft. 4 in. O.D.	DCW	6	7	IV	$960	$601	$1,561
	221417-6	wrapped cardboard/paper pipe	OMA				4	7	IV			
	221418-6	wrapped cardboard/paper pipe	OMA				5	7	IV			
pipe chase to restrooms	221419-7	mjp on wrapped cardboard/paper	OMA	48	4 in. O.D.	DCW	55	7	IV	$1,814	$1,008	$2,822
	221420-7	mjp on wrapped cardboard/paper	OMA				60	7	IV			
	221421-7	mjp on wrapped cardboard/paper	OMA				60	7	IV			
							AREA TOTAL			$2,774	$1,609	$4,383

The material quantities were estimated, due to inaccessibility and the lack of blueprints.

10 OGDEN ALLIED 1st Floor-Piping Above Drop Ceiling — AREA AVERAGE % ASB - 26%

running to dishwasher	221407-3	corrugated pipe covering	OMA	200	ft. 4 in. O.D.	DHW	20	34	III	$2,400	$1,502	$3,902

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			221408-3	corrugated pipe covering	OMA				30	34	III			
			221409-3	corrugated pipe covering	OMA				25	34	III			
		running to dishwasher	221410-4	mjp on corrugate pipe covering	OMA	30	4 in. O.D.	DHW	65	34	III	$1,134	$630	$1,764
			221411-4	mjp on corrugate pipe covering	OMA				65	34	III			
			221412-4	mjp on corrugate pipe covering	OMA				65	34	III			
		to restrooms	221413-5	mjp on non-suspect pipe cover	OMA	15	4 in. O.D.	DHW	0					
		running to kitchen	221413-5	mjp on non-suspect pipe cover	OMA	30	4 in. O.D.	DHW	0					
			221414-5	mjp on non-suspect pipe cover	OMA				0					
			221415-5	mjp on non-suspect pipe cover	OMA				0					
		to restrooms	221416-6	wrapped cardboard/paper pipe	OMA	325	ft. 4 in. O.D.	DCW	6	34	III	$3,900	$2,441	$6,341
		discontinued line	221416-6	wrapped cardboard/paper pipe	OMA	250	ft. 4 in. O.D.	DCW	6	34	III	$3,000	$1,878	$4,878
			221417-6	wrapped cardboard/paper pipe	OMA				4	34	III			
			221418-6	wrapped cardboard/paper pipe	OMA				5	34	III			
		discontinued line	221419-7	mjp on wrapped cardboard/paper	OMA	20	4 in. O.D.	DCW	55	34	III	$756	$420	$1,176
		to restrooms	221419-7	mjp on wrapped cardboard/paper	OMA	20	4 in. O.D.	DCW	55	34	III	$756	$420	$1,176
			221420-7	mjp on wrapped cardboard/paper	OMA				60	34	III			
			221421-7	mjp on wrapped cardboard/paper	OMA				60	34	III			
		to heaters	221422-8	mjp on non-suspect pipe cover	OMA	50	4 in. O.D.	LPS/R	0					
			221423-8	mjp on non-suspect pipe cover	OMA				0					
			221424-8	mjp on non-suspect pipe cover	OMA				0					
		The material quantities were estimated, due to inaccessibility and the lack of blueprints.							AREA TOTAL			$11,946	$7,291	$19,237
11	OGDEN ALLIED	1st Floor-Floor					AREA AVERAGE % ASB - 4%							
		employee lounge	221465-0	vinyl floor tile	OMZ	625	sq.ft.		4	7	IV	$2,837	$2,150	$4,987
		The material is in fair condition. However, the area is accessed frequently.							AREA TOTAL			$2,837	$2,150	$4,987
									TENANT - OGDEN ALLIED		TOTAL	$39,955	$28,124	$68,079

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

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Constructed: 1949
Inspected: 06/28/88
Inspector: J. Worstell

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
12	ROYAL AIR MARCO	1st Floor					AREA AVERAGE % ASB - 5%							
		suspended from ceiling	221416-6	wrapped cardboard/paper pipe	OMA	30 ft. 4 in. O.D.		DCW	6	27	III	$360	$225	$585
			221417-6	wrapped cardboard/paper pipe	OMA				4	27	III			
			221418-6	wrapped cardboard/paper pipe	OMA				5	27	III			
											AREA TOTAL	$360	$225	$585

The material is located on cold water lines and discontinued lines in the warehouse area. The location of this material makes it subject to contact damage, due to the high activity in this area.

TENANT - ROYAL AIR MARCO TOTAL	$360	$225	$585

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
13	SKY DELI	Cafeteria					AREA AVERAGE % ASB - 32%							
	to restrooms		221416-6	wrapped cardboard/paper pipe	OMA	40	ft. 4 in. O.D.	DCW	6	14	IV	$480	$300	$780
			221417-6	wrapped cardboard/paper pipe	OMA				4	14	IV			
			221418-6	wrapped cardboard/paper pipe	OMA				5	14	IV			
	to restrooms		221419-7	mjp on wrapped cardboard/paper	OMA	18	4 in. O.D.	DCW	55	14	IV	$680	$378	$1,058
			221420-7	mjp on wrapped cardboard/paper	OMA				60	14	IV			
			221421-7	mjp on wrapped cardboard/paper	OMA				60	14	IV			
	The material type and quantities were estimated, due to inaccessibility and the lack of blueprints.								AREA TOTAL			$1,160	$678	$1,838
							TENANT - SKY DELI		TOTAL			$1,160	$678	$1,838

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
14	TRIANGLE MAINT	Basement-Boiler Room					AREA AVERAGE % ASB - 39%							
		on boiler	221434-12	boiler/tank insulation	OMB	260	sq.ft.		65	24	III	$12,433	$9,958	$22,391
			221435-12	boiler/tank insulation	OMB				60	24	III			
			221436-12	boiler/tank insulation	OMB				60	24	III			
		condensate tank	221437-13	boiler/tank insulation	OMB	61	sq.ft.		0	24	III	$2,917	$2,336	$5,253
			221438-13	boiler/tank insulation	OMB				0	24	III			
			221439-13	boiler/tank insulation	OMB				6	24	III			
		south wall-near ceiling	221440-14	mjp on non-suspect pipe cover	OMA	5	10 in. O.D.	LPS/R	70	24	III	$421	$263	$684
		south wall-near ceiling	221440-14	mjp on non-suspect pipe cover	OMA	4	6 in. O.D.	LPS/R	70	24	III	$208	$122	$330
			221441-14	mjp on non-suspect pipe cover	OMA				30	24	III			
			221442-14	mjp on non-suspect pipe cover	OMA				35	24	III			
		along walls	221443-15	corrugated pipe covering	OMA	30	ft. 6 in. O.D.	HWS/R	30	24	III	$524	$328	$852
		along walls	221443-15	corrugated pipe covering	OMA	40	ft. 4 in. O.D.	HWS/R	30	24	III	$480	$300	$780
			221444-15	corrugated pipe covering	OMA				35	24	III			
			221445-15	corrugated pipe covering	OMA				40	24	III			
		along walls	221446-16	mjp on corrugate pipe covering	OMA	6	6 in. O.D.	HWS/R	75	24	III	$312	$183	$495
		along walls	221446-16	mjp on corrugate pipe covering	OMA	20	4 in. O.D.	HWS/R	75	24	III	$756	$420	$1,176
			221447-16	mjp on corrugate pipe covering	OMA				70	24	III			
			221448-16	mjp on corrugate pipe covering	OMA				65	24	III			
		north wall-near ceiling	221449-17	corrugated pipe covering	OMA	50	ft. 4 in. O.D.	DHW	45	24	III	$600	$376	$976
			221450-17	corrugated pipe covering	OMA				55	24	III			
			221451-17	corrugated pipe covering	OMA				50	24	III			
		north wall-near ceiling	221452-18	mjp on corrugate pipe covering	OMA	18	4 in. O.D.	DHW	3	24	III	$680	$378	$1,058
			221453-18	mjp on corrugate pipe covering	OMA				6	24	III			
			221454-18	mjp on corrugate pipe covering	OMA				5	24	III			
		AREA TOTAL										$19,331	$14,664	$33,995

The material was located in a small basement room behind a locked door. The pipe insulation was loosely fitted, but exhibited only localized damage. Overall, the only damage was from aging.

15	TRIANGLE MAINT	Basement					AREA AVERAGE % ASB - 32%							
		room to the east side of boiler room	221456-19	corrugated pipe covering	OMA	20	4 in. O.D.	DCW	30	24	III	$756	$420	$1,176
			221457-19	corrugated pipe covering	OMA				35	24	III			
			221458-19	corrugated pipe covering	OMA				30	24	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		The material was located on a partially insulated line.							AREA TOTAL			$756	$420	$1,176
16	TRIANGLE MAINT	To Restrooms & Above Drop Ceiling					AREA AVERAGE % ASB - 33%							
		to baseboard heaters-in walls	221443-15	corrugated pipe covering	OMA	40	ft. 4 in. O.D.	HWS/R	30	16	IV	$480	$300	$780
			221444-15	corrugated pipe covering	OMA				35	16	IV			
			221445-15	corrugated pipe covering	OMA				40	16	IV			
		to baseboard heaters-in walls	221446-16	mjp on corrugate pipe covering	OMA	10	4 in. O.D.	HWS/R	75	16	IV	$378	$210	$588
			221447-16	mjp on corrugate pipe covering	OMA				70	16	IV			
			221448-16	mjp on corrugate pipe covering	OMA				65	16	IV			
		in wall	221449-17	corrugated pipe covering	OMA	60	ft. 4 in. O.D.	DHW	45	16	IV	$720	$451	$1,171
			221450-17	corrugated pipe covering	OMA				55	16	IV			
			221451-17	corrugated pipe covering	OMA				50	16	IV			
		in wall	221452-18	mjp on corrugate pipe covering	OMA	18	4 in. O.D.	DHW	3	16	IV	$680	$378	$1,058
			221453-18	mjp on corrugate pipe covering	OMA				6	16	IV			
			221454-18	mjp on corrugate pipe covering	OMA				5	16	IV			
		in wall	221456-19	corrugated pipe covering	OMA	80	ft. 4 in. O.D.	DCW	30	16	IV	$960	$601	$1,561
			221457-19	corrugated pipe covering	OMA				35	16	IV			
			221458-19	corrugated pipe covering	OMA				30	16	IV			
		in wall	221459-20	mjp on corrugate pipe covering	OMA	32	4 in. O.D.	DCW	7	16	IV	$1,210	$672	$1,882
			221460-20	mjp on corrugate pipe covering	OMA				9	16	IV			
			221461-20	mjp on corrugate pipe covering	OMA				5	16	IV			
		The material quantities were estimated, due to inaccessibility and the lack of blueprints.							AREA TOTAL			$4,428	$2,612	$7,040
17	TRIANGLE MAINT	1st Floor-Garage					AREA AVERAGE % ASB - 33%							
		near ceiling throughout	221462-21	corrugated pipe covering	OMA	200	ft. 8 in. O.D.	LPS/R	35	28	III	$3,808	$2,720	$6,528
			221463-21	corrugated pipe covering	OMA				30	28	III			
			221464-21	corrugated pipe covering	OMA				35	28	III			
		This material is starting to show rapid signs of aging and deterioration. The area is accessed heavily, but the material is well out of normal reach.							AREA TOTAL			$3,808	$2,720	$6,528

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
18	TRIANGLE MAINT	1st Floor					AREA AVERAGE % ASB - 20%							
		employee restroom	221456-19	corrugated pipe covering	OMA	60	ft. 4 in. O.D.	DCW	30	29	III	$720	$451	$1,171
			221457-19	corrugated pipe covering	OMA				35	29	III			
			221458-19	corrugated pipe covering	OMA				30	29	III			
		employee restroom	221459-20	mjp on corrugate pipe covering	OMA	12	4 in. O.D.	DCW	7	29	III	$454	$252	$706
			221460-20	mjp on corrugate pipe covering	OMA				9	29	III			
			221461-20	mjp on corrugate pipe covering	OMA				5	29	III			
		This material is in fair condition. The material has had some contact damage and the location, makes it susceptible to further contact damage.							AREA TOTAL			$1,174	$703	$1,877
19	TRIANGLE MAINT	1st Floor-Floors					AREA AVERAGE % ASB - 3%							
		parts room	221466-0	vinyl floor tile	OMZ	600	sq.ft.		3	6	IV	$2,724	$2,064	$4,788
		The material is in good condition with no visible damage.							AREA TOTAL			$2,724	$2,064	$4,788
20	TRIANGLE MAINT	1st Floor-Ceilings					AREA AVERAGE % ASB - 0%							
		throughout office ceilings	221455-0	drop or lay-in panel	OMG	2700	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
21	TRIANGLE MAINT	2nd Floor-Ceilings					AREA AVERAGE % ASB - 0%							
		throughout office space	221455-0	drop or lay-in panel	OMG	2700	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - TRIANGLE MAINT		TOTAL			$32,221	$23,183	$55,404

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 55

Building Number: 110
Building Name: AIRLINE SERVICES
JFK AIRPORT
Building Type: SERVICES
Constructed: 1949
Inspected: 06/28/88
Inspector: J. Worstell

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								BUILDING TOTAL				$83,312	$58,563	$141,875

BUILDING 111
FITZGERALD FEDERAL BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 111 - FITZGERALD FEDERAL BUILDING

The Fitzgerald Federal Building is a three-story, office and warehouse facility with a ground level parking garage. The building was constructed in 1949 of concrete and brick. 1

Ex. 4

to

Asbestos-containing materials identified in this facility were magnesia, corrugated cardboard, and wrapped cardboard pipe insulations with the corresponding mudded joint packing on elbows, tees, and valves; mudded joint packings on fiberglass-insulated piping systems; vibration joint cloth; drop ceiling tiles; rope gasket materials; exterior duct insulation; vinyl floor tiles, and transite-type wall paneling. The boiler room has been previously abated. The only asbestos-containing material identified in this area is vibration joint cloth.

Areas with damaged asbestos-containing material classified as Priority Level I include the crawl space below the ground floor offices and cafeteria, the ground floor chiller pump room, the garage entrance to the warehouse above the doorway, the ground floor north air handling room, the ground floor kitchen air handling room, and the north penthouse air handling room. The piping insulation on the steam and condensate piping systems in the crawl space has sustained water damage and damage from age degradation. The material is in very poor condition and moderately friable. Pipe insulation debris is located throughout the dirt floor below the piping. The debris has been pulverized and mixed into the dirt during maintenance in the area. Due to the advanced stage of damage, Hall-Kimbrell recommends the area undergo gross abatement to ensure complete removal of the asbestos-containing material.

The duct insulation material present in both first floor air handling rooms has sustained both contact and water damage. This material has become very friable and presents a high potential for exposure to airborne fibers. Insulation debris was observed on the floor and on top of the duct work. Water was running from a valve onto the duct insulation in the kitchen air handling room. The duct insulation has been partially washed off the duct and onto the floor. Hall-Kimbrell recommends materials in this condition be abated using gross removal procedures. Asbestos-containing pipe insulation is also present in these areas. This material is in a less damaged condition; however, Hall-Kimbrell recommends the pipe insulation also be abated in conjunction with the duct insulation to ensure the complete removal of all asbestos-containing material.

The ground floor chiller pump room contains damaged compressor tanks, pipe insulation, and mudded joint packing on fiberglass-insulated piping. These materials could be temporarily repaired; however, Hall-Kimbrell recommends removal of materials in this condition to avoid recurring damage resulting in fiber release. In the event of removal this room should undergo gross abatement procedures.

Badly damaged mudded joint packing on the fiberglass-insulated chilled water system piping is present in the north penthouse mechanical room. Hall-Kimbrell recommends this material be abated using glove bag removal procedures. The asbestos rope is present above the garage warehouse doorway filling a hole in the wall where a pipe passes through. This material is highly friable and should be properly removed and replaced with nonasbestos material.

PA 078991

Areas with damaged asbestos-containing material classified as Priority Level II include the ground floor kitchen air handling room (previously described), the ground floor kitchen area, and the north penthouse mechanical room. Badly damaged pipe insulation is present in the ground floor kitchen below the sinks and obsolete dishwasher unit. Hall-Kimbrell recommends removal of the material and replacement with nonasbestos-containing materials. In the event of removal, glove bag procedures should be implemented. The north penthouse mechanical room contains damaged insulation on the intake duct system. A small amount of debris was observed at the base of the duct. The debris should be cleaned up using HEPA vacuum procedures. The duct insulation may be temporarily encapsulated until removal becomes feasible. In the event of abatement, this mechanical room should undergo gross removal due to the extensive network of duct work present.

All other asbestos-containing materials present in this facility were undamaged or inaccessible during the inspection and have been classified as Priority Level III or IV. The inaccessible piping runs above permanent drop ceilings, and within perimeter walls and pipe chases. All asbestos-containing materials present in this facility should be incorporated in an operations and maintenance program to periodically monitor the condition of the materials and prevent any future damage until removal becomes feasible. Any future damage to the asbestos-containing material should be repaired as needed.

Building materials sampled and determined not to contain asbestos were boiler insulation, breecher insulation, mudded joint packings on fiberglass-insulated piping, drop ceiling tiles, acoustical ceiling tiles, and animal hair pipe insulation.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 078992

COST ESTIMATE

BUILDING 111 - FITZGERALD FEDERAL BUILDING

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$105,561
10% Contingency	$10,556
Total Removal/Replacement with Contingency	$116,117

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 10.4% of Total Construction Cost:

10.4% X $116,117	$12,076

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 29 8-hour shifts:

29 X $490	$14,210

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $116,117	$2,322

Total Project Estimate Including Professional Fees and Contingency	$144,725

PA 078993

COST ESTIMATE

BUILDING 111 - FITZGERALD FEDERAL BUILDING

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$209,373
10% Contingency	$20,937
Total Removal/Replacement with Contingency	$230,310

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 8.6% of Total Construction Cost:

8.6% X $230,310 — $19,807

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 50 8-hour shifts:

50 X $490 — $24,500

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $230,310 — $4,606

Total Project Estimate Including Professional Fees and Contingency — $279,223

PA 078994

COST ESTIMATE

BUILDING 111 - FITZGERALD FEDERAL BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$3,481,871
10% Contingency	$348,187
Total Removal/Replacement with Contingency	$3,830,058

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 6.5% of Total Construction Cost:

6.5% X $3,830,058 — $248,954

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 664 8-hour shifts:

664 X $490 — $325,360

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $3,830,058 — $76,601

Total Project Estimate Including Professional Fees and Contingency — $4,480,973

PA 078995

COST ESTIMATE

BUILDING 111 - FITZGERALD FEDERAL BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$339,663
10% Contingency	$33,966
Total Removal/Replacement with Contingency	$373,629

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 7.8% of Total Construction Cost:

7.8% X $373,629	$29,143

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 75 8-hour shifts:

75 X $490	$36,750

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $373,629	$7,473

Total Project Estimate Including Professional Fees and Contingency	$446,995

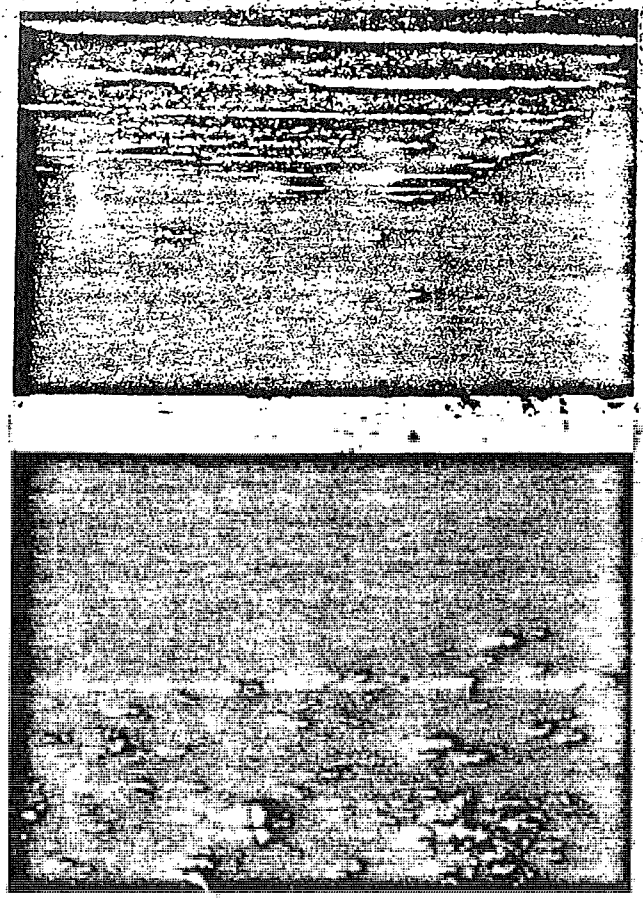
PA 078996

PHOTOGRAPH LOG

BUILDING 111 - FEDERAL OFFICE BUILDING

Picture #	Description
1	Ground Floor, unexcavated crawl space and debris.
2	Ground Floor, Kitchen Mechanical Room, damaged duct insulation.
3	Ground Floor, Kitchen Mechanical Room, water actively leaking on duct, damaged pipe insulation.
4	Ground Floor, Kitchen Mechanical Room, debris on floor.
5	Ground Floor, North Mechanical Room, damaged duct insulation and debris on floor.
6	Ground Floor, North Mechanical Room, damaged duct insulation upper surface of duct.
7	Ground Floor, Kitchen, food preparation area, damaged pipe insulation.
8	Ground Floor, Garage Area, asbestos rope packing above doorway to warehouse.
9	Ground Floor, Boiler Room, storage area, stored gasket material.
10	Ground Floor, Boiler Room, storage area, debris.
11	Ground Floor, Boiler Room.
12	Ground Floor, Chiller Room, damaged tanks.
13	Penthouse, Office, wall area.
14	Penthouse, North Mechanical Room, damaged piping.

PA 078997



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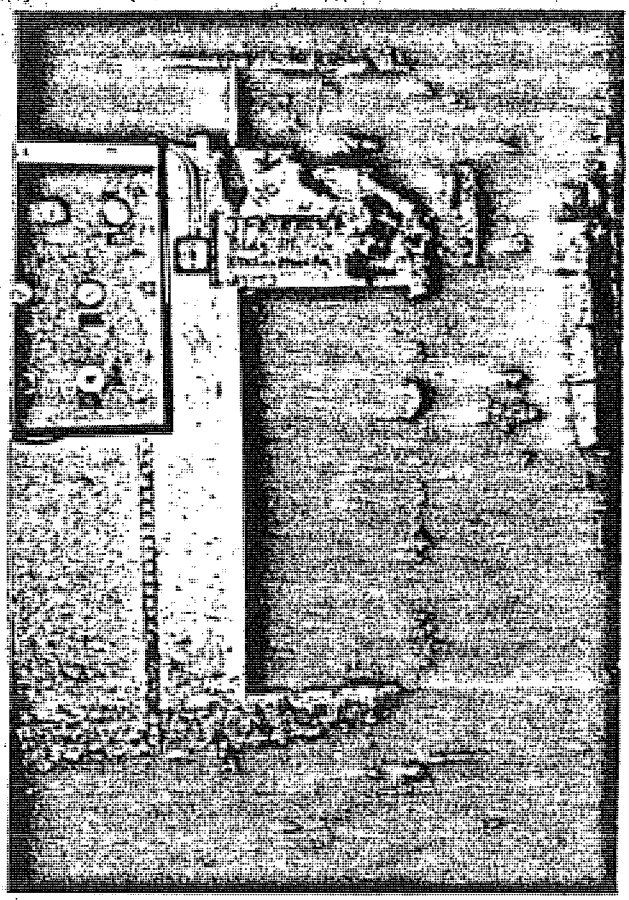

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PA 078998

C-LINE #52584
35MM PRINTS

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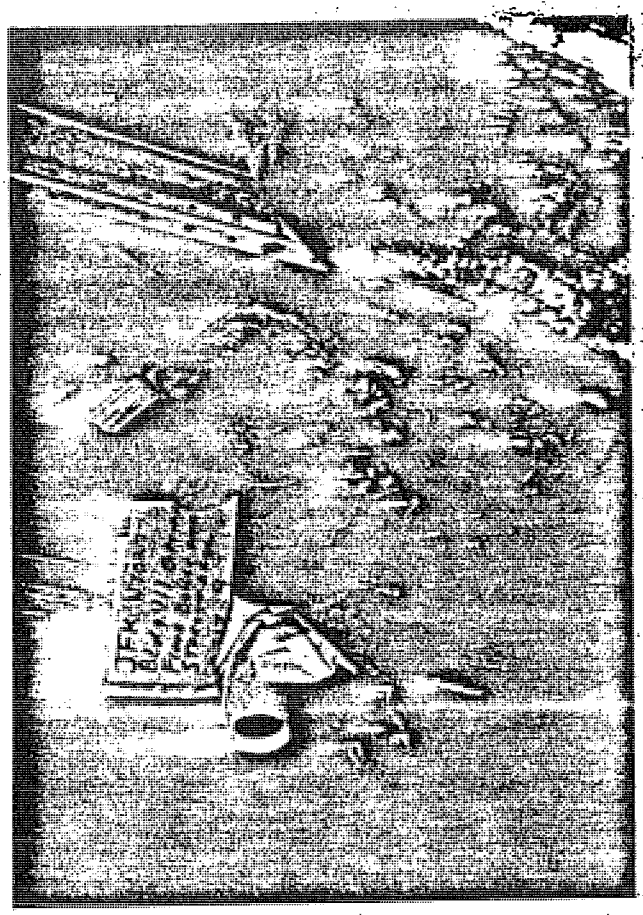
C-LINE #52584
35MM PRINTS

PA 078999



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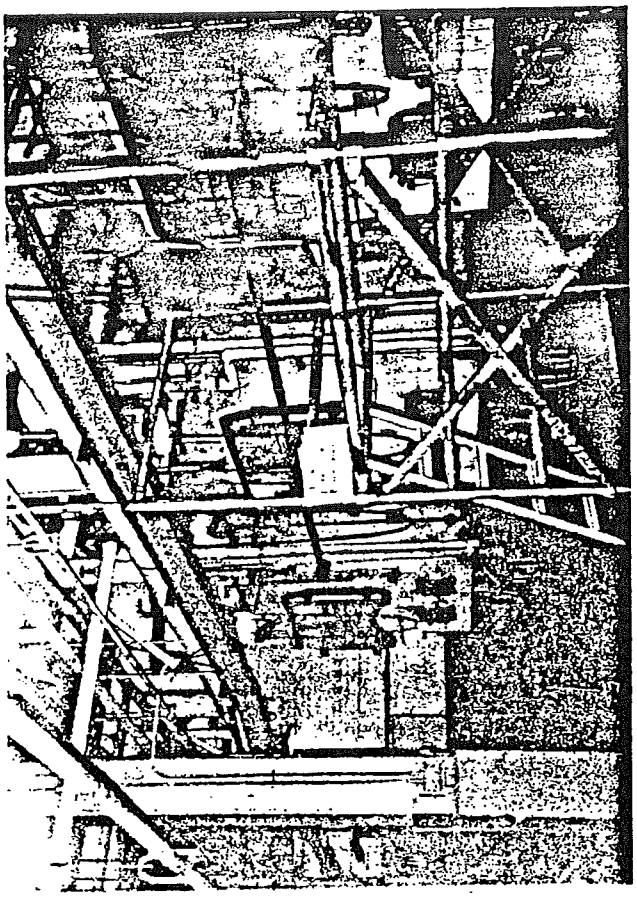

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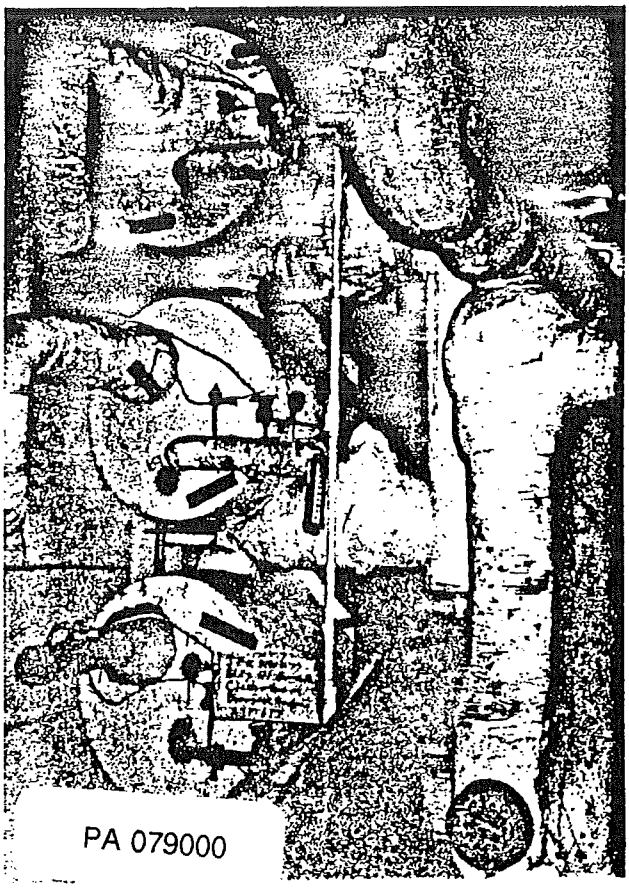
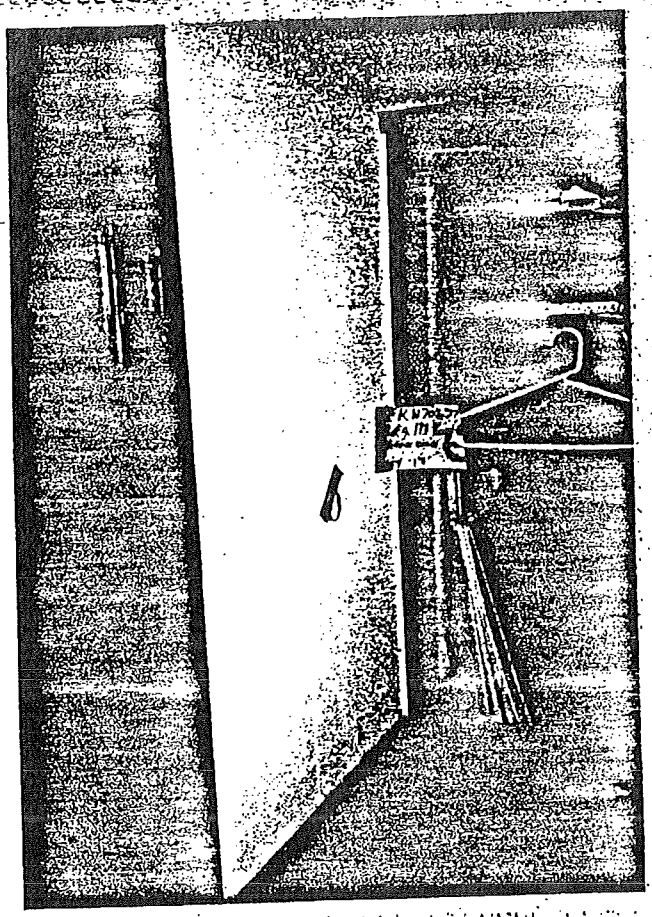


C-LINE #52584
35MM PRINTS

PA 079000



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C-LINE #52584
35MM PRINTS

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 111

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -212201	Y	N	0						40	10			40	10 GM	100
1 -212202	Y	N	0						45	10			35	10 GM	100
1 -212203	Y	N	0						45	10			35	10 GM	100
2 -212204	Y	N	0						55	10			25	10 GM	100
2 -212205	Y	N	0						55	10			25	10 GM	100
2 -212206	Y	N	0						55	10			25	10 GM	100
0 -212207	N	N	0						35	10			45	10 GM	100
0 -212208	N	N	0						45	10			35	10 GM	100
3 -212209	Y	N	0						45				45	10 GM	100
3 -212210	Y	N	0						45				45	10 GM	100
3 -212211	Y	N	0						45				45	10 GM	100
4 -212212	Y	N	0						45	10			35	10 GM	100
4 -212213	Y	N	0						45	10			35	10 GM	100
4 -212214	Y	N	0						45	10			35	10 GM	100
0 -212215	N	Y	60	60						20			10	10 O	100
0 -212216	N	Y	10	10						10			20	50 CAL O 10	100
0 -212217	N	Y	55		55					20				25 O	100
5 -212218	Y	Y	10	10						40			35	15 O	100
5 -212219	Y	Y	10	10						60			30		100
5 -212220	Y	Y	20	20						60			20		100
6 -212221	N	N	0						35				55	10 GM	100
6 -212222	N	Y	10	10						10			10	70 AH	100
6 -212223	N	N	0						35				55	10 GM	100
7 -212224	Y	N	0						35	10			45	10 GM	100
7 -212225	Y	N	0						35	10			45	10 GM	100
7 -212226	Y	N	0						35	10			45	10 GM	100
0 -212227	N	Y	60	60						30			10		100
8 -212228	Y	N	0							85			10	5 AH	100
8 -212229	Y	N	0							80			10	10 GM	100
8 -212230	Y	Y	2	2						78			10	10 AH	100
9 -212231	Y	Y	85	85									15		100
9 -212232	Y	Y	85	85									15		100
9 -212233	Y	Y	85	85									15		100
10 -212234	Y	Y	90	90										10 O	100
10 -212235	Y	Y	90	90									10		100
10 -212236	Y	Y	90	90									10		100
11 -212237	Y	Y	90	80	10								10		100
11 -212238	Y	Y	90	80	10								10		100
11 -212239	Y	Y	90	80	10								10		100
0 -212240	N	Y	30	30									30	40 AH	100
12 -212241	Y	Y	80	10	70								20		100
12 -212242	Y	Y	70	10	60								20	10 O	100
12 -212243	Y	Y	85	10	75								15		100
13 -212244	Y	Y	65	65						10			25		100
13 -212245	Y	Y	60	60						10			30		100
13 -212246	Y	Y	70	70						10			20		100
14 -212247	Y	Y	12	12						78			10		100
14 -212248	Y	Y	11	11						64			10	15 O	100
14 -212249	N	Y	10	10						70			10	10 O	100
15 -212250	Y	Y	60	60						10			20	10 GM	100
15 -212251	N	N	0							20				80 O	100
15 -212252	Y	Y	60	60						10			20	10 GM	100
16 -212253	Y	Y	50	50						30			20		100
16 -212254	Y	Y	15	15						65			20		100
16 -212255	Y	Y	20	20						60			20		100
17 -212256	Y	N	0							60			40		100
17 -212257	Y	N	0							80			20		100
17 -212258	Y	Y	2	2						50			48		100
18 -212259	Y	Y	80	80									10	10 O	100
18 -212260	Y	N	0						65	10			15	10 O	100
18 -212261	Y	Y	65	65									10	10 GM O 15	100
0 -212262	N	N	0						45	35			20		100
19 -212263	Y	Y	80	80									10	10 O	100
19 -212264	Y	Y	70	70									10	10 O GM 10	100
19 -212265	Y	Y	70	70									10	10 O GM 10	100
0 -212266	N	N	0							60			10	30 O	100
0 -212267	N	Y	2	2						58			10	10 GM O 20	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 111

SAMPLE NUMBER	NOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
0 -212268	N	Y	75	5	70								25		100
0 -212269	N	N	0							10			60	30 CAL	100
0 -212270	N	Y	2	2					45	30			23		100
0 -212271	N	Y	90	90									10		100
0 -212272	N	Y	40	40									60		100
0 -212273	N	N	0						40	20			40		100
20 -212274	Y	Y	50	50						20			20	10 GM	100
20 -212275	Y	Y	30	30						30			10	30 GM	100
20 -212276	Y	Y	20	20						50			10	20 GM	100
21 -212277	Y	N	0							30			70		100
21 -212278	Y	N	0							30			70		100
21 -212279	Y	Y	5	5						35			60		100
22 -212280	N	Y	30	30									60	10 GM	100
22 -212281	N	N	0							20			30	40 O AH 10	100
22 -212282	N	Y	40	40									50	10 GM	100
23 -212283	Y	Y	70	7	63								30		100
23 -212284	Y	Y	70	5	65								30		100
23 -212285	Y	Y	70	5	65								30		100
24 -212286	Y	Y	30	30									60	10 O	100
24 -212287	Y	Y	30	30									60	10 O	100
24 -212288	Y	Y	30	30									60	10 O	100
25 -212289	Y	N	0						45			10	45		100
25 -212290	Y	Y	25	25					35			10	30		100
25 -212291	Y	N	0						45	10		10	35		100
26 -212292	Y	N	0						45	10			35	10 GM	100
26 -212293	Y	Y	12	12					45	10			13	20 GM	100
26 -212294	Y	N	0						45	10			25	20 GM	100
27 -212295	Y	Y	15	15					45				30	10 GM	100
27 -212296	N	Y	70	70					10				10	10 GM	100
27 -212297	Y	N	0						45				45	10 GM	100
28 -212298	Y	N	0						45	10		10	35		100
28 -212299	Y	N	0						45	10		10	35		100
28 -212300	Y	Y	2	2					45	10		10	33		100
29 -216001	Y	Y	35	35									65		100
29 -216002	Y	Y	40	40									60		100
29 -216003	Y	Y	38	38									62		100
30 -216004	Y	N	0									98	2		100
30 -216005	Y	Y	2	2								85	3	10 COT	100
30 -216006	Y	N	0									98	2		100
0 -216007	N	Y	2	2									30	68 CAL	100
0 -216008	N	N	0										30	70 CAL	100
0 -216009	N	Y	2	2									29	69 CAL	100
0 -216010	N	N	0							85			5	10 COT	100
0 -216011	N	N	0						75				5	20 CAL	100
31 -216012	N	N	0									65	5	30 COT	100
31 -216013	N	Y	35	35								50	15		100
32 -216014	N	Y	30	30										20 COT GYP 50	100
31 -216015	N	Y	30	30							20		50		100
32 -216016	Y	Y	40	40								15	15	30 SF	100
32 -216017	Y	Y	35	35								20	25	20 SF	100

PA 079004

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HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 71

Building Number: 111 Page 1
Building Name: FEDERAL OFFICE BUILDING
JFK AIRPORT
Building Type: OFFICE
Constructed: 1949
Inspected: 05/18/88
Inspector: Jeff Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	FEDERAL	Crawl Space-Floor					AREA AVERAGE % ASB - 78%							
	throughout		212241-12	debris	OMF	17800	sq.ft.		80	122	I	$61,232	$0	$61,232
			212242-12	debris	OMF				70	122	I			
			212243-12	debris	OMF				85	122	I			
									AREA TOTAL			$61,232	$0	$61,232

Pipe insulation debris is present on the unexcavated floor throughout the area. It has been mixed into the dirt floor by workers in the area. The pipe insulation and debris are the same material, so the sample numbers for the insulation are also used for the debris. Access to this area is very limited due to the size of the access panels.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	FEDERAL	Crawl Space-Under 1st Floor					AREA AVERAGE % ASB - 62%							
	throughout		212241-12	pipe covering	OMA	453	ft. 4 in. O.D.	LPS/R	80	72	I	$5,436	$3,402	$8,838
			212242-12	pipe covering	OMA				70	72	I			
			212243-12	pipe covering	OMA				85	72	I			
	throughout		212244-13	mjp on pipe covering	OMA	94	4 in. O.D.	LPS/R	65	72	I	$3,553	$1,974	$5,527
			212245-13	mjp on pipe covering	OMA				60	72	I			
			212246-13	mjp on pipe covering	OMA				70	72	I			
	throughout		212263-19	mjp on corrugate pipe covering	OMA	84	4 in. O.D.	CON	80	72	I	$3,175	$1,764	$4,939
			212264-19	mjp on corrugate pipe covering	OMA				70	72	I			
			212265-19	mjp on corrugate pipe covering	OMA				70	72	I			
	throughout		212274-20	corrugated pipe covering	OMA	288	ft. 4 in. O.D.	CON	50	72	I	$3,456	$2,163	$5,619
			212275-20	corrugated pipe covering	OMA				30	72	I			
			212276-20	corrugated pipe covering	OMA				20	72	I			
									AREA TOTAL			$15,620	$9,303	$24,923

The material is in fair to poor condition throughout the crawl space. Quantities were taken from available blueprints due to the limited access to the area.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	FEDERAL	Ground Floor-Boiler Room					AREA AVERAGE % ASB - 14%							
	above boilers		212207-0	breecher/exhaust stack packing	OMB	480	sq.ft.		0					
	behind main boilers		212208-0	boiler/tank insulation	OMB	30	sq.ft.		0					
	south end of room-near ceiling on ducts		212215-0	vibration joint cloth	OMZ	10	sq.ft.		60	24	III	$179	$96	$275

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		south storage area on shelving-flr tile	212216-0	stored insulation/material	OME	3	cu.ft.		10	24	III	$41	$0	$41
		south storage-shelving-gasket material	212217-0	stored insulation/material	OME	3	cu.ft.		55	24	III	$41	$0	$41
		behind boilers	212201-1	mjp on non-suspect pipe cover	OMA	6 4	in. O.D.	LPS/R	0					
		behind boilers	212201-1	mjp on non-suspect pipe cover	OMA	3 6	in. O.D.	LPS/R	0					
			212202-1	mjp on non-suspect pipe cover	OMA				0					
			212203-1	mjp on non-suspect pipe cover	OMA				0					
		north boiler	212204-2	boiler/tank insulation	OMB	280	sq.ft.		0					
		south boiler	212204-2	boiler/tank insulation	OMB	280	sq.ft.		0					
		middle boiler	212204-2	boiler/tank insulation	OMB	280	sq.ft.		0					
			212205-2	boiler/tank insulation	OMB				0					
			212206-2	boiler/tank insulation	OMB				0					
		against north wall condenser tank	212209-3	boiler/tank insulation	OMB	18	sq.ft.		0					
			212210-3	boiler/tank insulation	OMB				0					
			212211-3	boiler/tank insulation	OMB				0					
		against north wall hot water generator	212212-4	boiler/tank insulation	OMB	20	sq.ft.		0					
			212213-4	boiler/tank insulation	OMB				0					
			212214-4	boiler/tank insulation	OMB				0					
									AREA TOTAL			$261	$96	$357

The building representative informed the inspector that this room has recently undergone asbestos abatement. Samples of suspect material were taken to confirm or deny the presence of asbestos in any material not removed during the abatement or in any of the reinsulation materials.

04 FEDERAL — Ground Floor-Chiller Room — AREA AVERAGE % ASB - 19%

	against east wall	212227-0	vibration joint cloth	OMZ	3	sq.ft.		60	26	III	$54	$29	$83
	ceiling	212218-5	wrapped cardboard/paper pipe	OMA	100	ft. 6 in. O.D.	CWS/R	10	26	III	$1,746	$1,092	$2,838
	ceiling	212218-5	wrapped cardboard/paper pipe	OMA	100	ft. 8 in. O.D.	CWS/R	10	26	III	$1,904	$1,360	$3,264
	ceiling	212218-5	wrapped cardboard/paper pipe	OMA	30	ft. 10 in. O.D.	CWS/R	10	26	III	$761	$564	$1,325
		212219-5	wrapped cardboard/paper pipe	OMA				10	26	III			
		212220-5	wrapped cardboard/paper pipe	OMA				20	26	III			
	ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	9	10 in. O.D.	CWS/R	0	26	III	$758	$474	$1,232
	ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	18	8 in. O.D.	CWS/R	0	26	III	$1,166	$685	$1,851
	ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	15	6 in. O.D.	CWS/R	0	26	III	$781	$459	$1,240
		212222-6	mjp on wrapped cardboard/paper	OMA				10	26	III			
		212223-6	mjp on wrapped cardboard/paper	OMA				0	26	III			
	throughout	212224-7	mjp on non-suspect pipe cover	OMA	2	6 in. O.D.	CWS/R	0					
	throughout	212224-7	mjp on non-suspect pipe cover	OMA	38	8 in. O.D.	CWS/R	0					

PA 079000

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212225-7	mjp on non-suspect pipe cover	OMA				0					
			212226-7	mjp on non-suspect pipe cover	OMA				0					
		The chiller room contains an extensive amount of piping running throughout. The piping insulation is predominantly in good condition and well painted.							AREA TOTAL			$7,170	$4,663	$11,833
05	FEDERAL	Ground Floor-Chiller Room-South End					AREA AVERAGE % ASB - 59%							
		near chiller compressor tanks	212240-0	pipe covering	OMA	30 ft. 8 in. O.D.		CWS/R	30	90	I	$571	$408	$979
		against wall-middle tank	212234-10	boiler/tank insulation	OMB	40 sq.ft.			90	90	I	$1,913	$1,532	$3,445
			212235-10	boiler/tank insulation	OMB				90	90	I			
			212236-10	boiler/tank insulation	OMB				90	90	I			
		against wall-lower tank	212237-11	boiler/tank insulation	OMB	40 sq.ft.			90	90	I	$1,913	$1,532	$3,445
			212238-11	boiler/tank insulation	OMB				90	90	I			
			212239-11	boiler/tank insulation	OMB				90	90	I			
		near chiller compressor tanks	212228-8	mjp on non-suspect pipe cover	OMA	4 8 in. O.D.		CWS/R	0	90	I	$259	$152	$411
			212229-8	mjp on non-suspect pipe cover	OMA				0	90	I			
			212230-8	mjp on non-suspect pipe cover	OMA				2	90	I			
		against wall-upper tank	212231-9	boiler/tank insulation	OMB	40 sq.ft.			85	90	I	$1,913	$1,532	$3,445
			212232-9	boiler/tank insulation	OMB				85	90	I			
			212233-9	boiler/tank insulation	OMB				85	90	I			
		This insulation material has encountered contact and water damage. The areas of damage are friable. Damaged areas should be repaired and encapsulated.							AREA TOTAL			$6,569	$5,156	$11,725
06	FEDERAL	Ground Floor-East End-Rooms					AREA AVERAGE % ASB - 33%							
		corridor to boiler room-ceiling	212241-12	pipe covering	OMA	5 ft. 4 in. O.D.		LPS/R	80	26	III	$60	$38	$98
		corridor to boiler room-ceiling	212241-12	pipe covering	OMA	75 ft. 6 in. O.D.		LPS/R	80	26	III	$1,309	$819	$2,128
		carpenter shop-ceiling	212241-12	pipe covering	OMA	28 ft. 6 in. O.D.		LPS/R	80	26	III	$489	$306	$795
			212242-12	pipe covering	OMA				70	26	III			
			212243-12	pipe covering	OMA				85	26	III			
		corridor to boiler room-ceiling	212244-13	mjp on pipe covering	OMA	1 6 in. O.D.		LPS/R	65	26	III	$52	$31	$83
		corridor to boiler room-ceiling	212244-13	mjp on pipe covering	OMA	5 4 in. O.D.		LPS/R	65	26	III	$189	$105	$294
		carpenter shop-ceiling	212244-13	mjp on pipe covering	OMA	8 6 in. O.D.		LPS/R	65	26	III	$416	$245	$661
			212245-13	mjp on pipe covering	OMA				60	26	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212246-13	mjp on pipe covering	OMA				70	26	III			
		corridor to boiler room-ceiling	212247-14	wrapped cardboard/paper pipe	OMA	155	ft. 4 in. O.D.	DW	12	26	III	$1,860	$1,164	$3,024
			212248-14	wrapped cardboard/paper pipe	OMA				11	26	III			
			212249-14	wrapped cardboard/paper pipe	OMA				10	26	III			
		corridor to boiler room-ceiling	212250-15	mjp on wrapped cardboard/paper	OMA	3	4 in. O.D.	DW	60	26	III	$113	$63	$176
			212251-15	mjp on wrapped cardboard/paper	OMA				0	26	III			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	26	III			
		corridor to boiler room-ceiling	212253-16	corrugated pipe covering	OMA	70	ft. 4 in. O.D.	DW	50	26	III	$840	$526	$1,366
		carpenter shop-ceiling	212253-16	corrugated pipe covering	OMA	80	ft. 4 in. O.D.	DW	50	26	III	$960	$601	$1,561
			212254-16	corrugated pipe covering	OMA				15	26	III			
			212255-16	corrugated pipe covering	OMA				20	26	III			
		carpenter shop-ceiling	212256-17	wrapped cardboard/paper pipe	OMA	10	ft. 6 in. O.D.	DR	0	26	III	$175	$109	$284
			212257-17	wrapped cardboard/paper pipe	OMA				0	26	III			
			212258-17	wrapped cardboard/paper pipe	OMA				2	26	III			
		carpenter shop-ceiling	212259-18	mjp on wrapped cardboard/paper	OMA	3	6 in. O.D.	DR	80	26	III	$156	$92	$248
			212260-18	mjp on wrapped cardboard/paper	OMA				0	26	III			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	26	III			
		carpenter shop-ceiling	212218-5	wrapped cardboard/paper pipe	OMA	10	ft. 6 in. O.D.	CWS/R	10	26	III	$175	$109	$284
		carpenter shop-ceiling	212218-5	wrapped cardboard/paper pipe	OMA	40	ft. 10 in. O.D.	CWS/R	10	26	III	$1,015	$752	$1,767
			212219-5	wrapped cardboard/paper pipe	OMA				10	26	III			
			212220-5	wrapped cardboard/paper pipe	OMA				20	26	III			
		carpenter shop-ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	1	6 in. O.D.	CWS/R	0	26	III	$52	$31	$83
		carpenter shop-ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	3	10 in. O.D.	CWS/R	0	26	III	$253	$158	$411
			212222-6	mjp on wrapped cardboard/paper	OMA				10	26	III			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	26	III			
		The piping insulation in these areas is in good condition without visible damage.							AREA TOTAL			$8,114	$5,149	$13,263
07	FEDERAL	Ground Floor-E End-Office by Carp Shop					AREA AVERAGE % ASB - 0%							
		ceiling	212262-0	drop or lay-in panel	OMG	450	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
08	FEDERAL	Ground Floor-East Side-Garage					AREA AVERAGE % ASB - 32%							

PA 079002

HALL-KIMBRELL ...IRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 71

Building Number: 111
Building Name: FEDERAL OFFICE BUILDING
JFK AIRPORT
Building Type: OFFICE
Constructed: 1949
Inspected: 05/18/88
Inspector: Jeff Lanan

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		wall ventilation units-north end	212266-0	vibration joint cloth	OMZ	10	sq.ft.		0					
		wall ventilation units-south end	212267-0	vibration joint cloth	OMZ	20	sq.ft.		2	27	III	$358	$193	$551
		along ceiling & upper walls	212268-0	pipe covering	OMA	130	ft. 4 in. O.D.	EXH	75	27	III	$1,560	$976	$2,536
		along ceiling & upper walls	212269-0	mjp on pipe covering	OMA	4	4 in. O.D.	EXH	0					
		car wash-ceiling	212241-12	pipe covering	OMA	80	ft. 6 in. O.D.	LPS/R	80	27	III	$1,397	$874	$2,271
		car wash-ceiling	212241-12	pipe covering	OMA	30	ft. 4 in. O.D.	LPS/R	80	27	III	$360	$225	$585
		along ceiling & upper walls	212241-12	pipe covering	OMA	530	ft. 6 in. O.D.	LPS/R	80	27	III	$9,254	$5,788	$15,042
		along ceiling & upper walls	212241-12	pipe covering	OMA	358	ft. 4 in. O.D.	LPS/R	80	27	III	$4,296	$2,689	$6,985
		along ceiling & upper walls	212241-12	pipe covering	OMA	135	ft. 8 in. O.D.	LPS/R	80	27	III	$2,570	$1,836	$4,406
			212242-12	pipe covering	OMA				70	27	III			
			212243-12	pipe covering	OMA				85	27	III			
		along ceiling & upper walls	212244-13	mjp on pipe covering	OMA	51	4 in. O.D.	LPS/R	65	27	III	$1,928	$1,071	$2,999
		car wash-ceiling	212244-13	mjp on pipe covering	OMA	3	6 in. O.D.	LPS/R	65	27	III	$156	$92	$248
		car wash-ceiling	212244-13	mjp on pipe covering	OMA	8	4 in. O.D.	LPS/R	65	27	III	$302	$168	$470
		along ceiling & upper walls	212244-13	mjp on pipe covering	OMA	8	8 in. O.D.	LPS/R	65	27	III	$518	$305	$823
		along ceiling & upper walls	212244-13	mjp on pipe covering	OMA	240	6 in. O.D.	LPS/R	65	27	III	$12,490	$7,337	$19,827
			212245-13	mjp on pipe covering	OMA				60	27	III			
			212246-13	mjp on pipe covering	OMA				70	27	III			
		along ceiling & upper walls	212247-14	wrapped cardboard/paper pipe	OMA	185	ft. 6 in. O.D.	DW	12	27	III	$3,230	$2,020	$5,250
		along ceiling & upper walls	212247-14	wrapped cardboard/paper pipe	OMA	805	ft. 4 in. O.D.	DW	12	27	III	$9,660	$6,046	$15,706
			212248-14	wrapped cardboard/paper pipe	OMA				11	27	III			
			212249-14	wrapped cardboard/paper pipe	OMA				10	27	III			
		along ceiling & upper walls	212250-15	mjp on wrapped cardboard/paper	OMA	15	6 in. O.D.	DW	60	27	III	$781	$459	$1,240
		along ceiling & upper walls	212250-15	mjp on wrapped cardboard/paper	OMA	35	4 in. O.D.	DW	60	27	III	$1,323	$735	$2,058
			212251-15	mjp on wrapped cardboard/paper	OMA				0	27	III			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	27	III			
		along ceiling & along upper walls	212253-16	corrugated pipe covering	OMA	72	ft. 4 in. O.D.	DW	50	27	III	$864	$541	$1,405
			212254-16	corrugated pipe covering	OMA				15	27	III			
			212255-16	corrugated pipe covering	OMA				20	27	III			
		along ceiling & upper walls	212256-17	wrapped cardboard/paper pipe	OMA	134	ft. 10 in. O.D.	DR	0			$3,401	$2,519	$5,920
		along ceiling & upper walls	212256-17	wrapped cardboard/paper pipe	OMA	24	ft. 6 in. O.D.	DR	0			$419	$262	$681
		along ceiling & upper walls	212256-17	wrapped cardboard/paper pipe	OMA	120	ft. 8 in. O.D.	DR	0			$2,285	$1,632	$3,917
		along ceiling & upper walls	212256-17	wrapped cardboard/paper pipe	OMA	82	ft. 14 in. O.D.	DR	0			$2,776	$2,195	$4,971
		along ceiling & upper walls	212256-17	wrapped cardboard/paper pipe	OMA	211	ft. 12 in. O.D.	DR	0			$6,252	$4,807	$11,059
			212257-17	wrapped cardboard/paper pipe	OMA				0					
			212258-17	wrapped cardboard/paper pipe	OMA				2					
		along ceiling & upper walls	212259-18	mjp on wrapped cardboard/paper	OMA	2	8 in. O.D.	DR	80	27	III	$130	$76	$206
		along ceiling & upper walls	212259-18	mjp on wrapped cardboard/paper	OMA	10	6 in. O.D.	DR	80	27	III	$520	$306	$826

PA 079003

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212260-18	mjp on wrapped cardboard/paper	OMA				0	27	III			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	27	III			
		along ceiling & upper walls	212263-19	mjp on corrugate pipe covering	OMA	4	4 in. O.D.	DW	80	27	III	$151	$84	$235
			212264-19	mjp on corrugate pipe covering	OMA				70	27	III			
			212265-19	mjp on corrugate pipe covering	OMA				70	27	III			
		along ceiling & upper walls	212218-5	wrapped cardboard/paper pipe	OMA	310	ft. 8 in. O.D.	CWS/R	10	27	III	$5,902	$4,216	$10,118
		along ceiling & upper walls	212218-5	wrapped cardboard/paper pipe	OMA	200	ft. 10 in. O.D.	CWS/R	10	27	III	$5,076	$3,760	$8,836
		along ceiling & upper walls	212218-5	wrapped cardboard/paper pipe	OMA	300	ft. 4 in. O.D.	CWS/R	10	27	III	$3,600	$2,253	$5,853
		along ceiling & upper walls	212218-5	wrapped cardboard/paper pipe	OMA	120	ft. 6 in. O.D.	CWS/R	10	27	III	$2,095	$1,310	$3,405
			212219-5	wrapped cardboard/paper pipe	OMA				10	27	III			
			212220-5	wrapped cardboard/paper pipe	OMA				20	27	III			
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA	10	4 in. O.D.	CWS/R	0	27	III	$378	$210	$588
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA	5	6 in. O.D.	CWS/R	0	27	III	$260	$153	$413
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA	22	8 in. O.D.	CWS/R	0	27	III	$1,425	$838	$2,263
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA	4	10 in. O.D.	CWS/R	0	27	III	$337	$211	$548
			212222-6	mjp on wrapped cardboard/paper	OMA				10	27	III			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	27	III			
		The pipe insulation in this area is in good condition with small localized areas of damage. All of the piping runs along the ceiling and upper wall areas.							AREA TOTAL			$86,054	$56,187	$142,241
09	FEDERAL	Ground Floor-Garage Area					AREA AVERAGE % ASB - 90%							
		warehouse-above doorway	212271-0	asbestos rope	OMZ	2	foot		90	126	I	$14	$0	$14
		This rope material is being used as a packing to fill a hole in the wall where a pipe passes through. It is friable and should be removed and replaced with non-asbestos packing.							AREA TOTAL			$14	$0	$14
10	FEDERAL	Ground Floor-Garage-Office					AREA AVERAGE % ASB - 2%							
		warehouse-above doorway	212270-0	drop or lay-in panel	OMG	280	sq.ft.		2	26	III	$2,117	$770	$2,887
		The ceiling tiles in this area are in good condition.							AREA TOTAL			$2,117	$770	$2,887

PA 079004

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
11	FEDERAL	Ground Floor-Garage-Office					AREA AVERAGE % ASB - 20%							
		above drop ceiling	212247-14	wrapped cardboard/paper pipe	OMA	10	ft. 4 in. O.D.	DW	12	18	IV	$120	$75	$195
			212248-14	wrapped cardboard/paper pipe	OMA				11	18	IV			
			212249-14	wrapped cardboard/paper pipe	OMA				10	18	IV			
		above drop ceiling	212253-16	corrugated pipe covering	OMA	10	ft. 4 in. O.D.	DW	50	18	IV	$120	$75	$195
			212254-16	corrugated pipe covering	OMA				15	18	IV			
			212255-16	corrugated pipe covering	OMA				20	18	IV			
		The pipe insulation in this area is in good condition. In the event of removal, this material can be abated using glove bag procedures.							AREA TOTAL			$240	$150	$390
12	FEDERAL	Grd Floor-W End-Corridor-Above Drop Ceiling					AREA AVERAGE % ASB - 38%							
		throughout	212241-12	pipe covering	OMA	136	ft. 4 in. O.D.	LPS/R	80	18	IV	$1,632	$1,021	$2,653
		throughout	212241-12	pipe covering	OMA	120	ft. 6 in. O.D.	LPS/R	80	18	IV	$2,095	$1,310	$3,405
			212242-12	pipe covering	OMA				70	18	IV			
			212243-12	pipe covering	OMA				85	18	IV			
		throughout	212244-13	mjp on pipe covering	OMA	4	4 in. O.D.	LPS/R	65	18	IV	$151	$84	$235
		throughout	212244-13	mjp on pipe covering	OMA	2	6 in. O.D.	LPS/R	65	18	IV	$104	$61	$165
			212245-13	mjp on pipe covering	OMA				60	18	IV			
			212246-13	mjp on pipe covering	OMA				70	18	IV			
		throughout	212247-14	wrapped cardboard/paper pipe	OMA	400	ft. 4 in. O.D.	DW	12	18	IV	$4,800	$3,004	$7,804
			212248-14	wrapped cardboard/paper pipe	OMA				11	18	IV			
			212249-14	wrapped cardboard/paper pipe	OMA				10	18	IV			
		throughout	212250-15	mjp on wrapped cardboard/paper	OMA	20	4 in. O.D.	DW	60	18	IV	$756	$420	$1,176
			212251-15	mjp on wrapped cardboard/paper	OMA				0	18	IV			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	18	IV			
		throughout	212253-16	corrugated pipe covering	OMA	108	ft. 4 in. O.D.	DW	50	18	IV	$1,296	$811	$2,107
			212254-16	corrugated pipe covering	OMA				15	18	IV			
			212255-16	corrugated pipe covering	OMA				20	18	IV			
		throughout	212256-17	wrapped cardboard/paper pipe	OMA	100	ft. 8 in. O.D.	DR	0	18	IV	$1,904	$1,360	$3,264
		throughout	212256-17	wrapped cardboard/paper pipe	OMA	20	ft. 6 in. O.D.	DR	0	18	IV	$349	$218	$567
			212257-17	wrapped cardboard/paper pipe	OMA				0	18	IV			
			212258-17	wrapped cardboard/paper pipe	OMA				2	18	IV			
		throughout	212259-18	mjp on wrapped cardboard/paper	OMA	2	8 in. O.D.	DR	80	18	IV	$130	$76	$206
		throughout	212259-18	mjp on wrapped cardboard/paper	OMA	10	6 in. O.D.	DR	80	18	IV	$520	$306	$826

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212260-18	mjp on wrapped cardboard/paper	OMA				0	18	IV			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	18	IV			
		throughout	212280-22	mjp on corrugate pipe covering	OMA	4	4 in. O.D.	DW	30	18	IV	$151	$84	$235
			212281-22	mjp on corrugate pipe covering	OMA				0	18	IV			
			212282-22	mjp on corrugate pipe covering	OMA				40	18	IV			
									AREA TOTAL			$13,888	$8,755	$22,643

The material in this area is enclosed above a permanent plaster ceiling with limited access. Localized areas of water damage were observed during the inspection.

13 FEDERAL — Ground Floor-W End-Warehouse & Office — AREA AVERAGE % ASB - 38%

	southwest corner-on fan unit	212227-0	vibration joint cloth	OMZ	4	sq.ft.		60	26	III	$72	$39	$111
	at ceilings	212241-12	pipe covering	OMA	945	ft. 6 in. O.D.	LPS/R	80	26	III	$16,500	$10,319	$26,819
	at ceilings	212241-12	pipe covering	OMA	135	ft. 8 in. O.D.	LPS/R	80	26	III	$2,570	$1,836	$4,406
	at ceilings	212241-12	pipe covering	OMA	2000	ft. 4 in. O.D.	LPS/R	80	26	III	$24,000	$15,020	$39,020
		212242-12	pipe covering	OMA				70	26	III			
		212243-12	pipe covering	OMA				85	26	III			
	at ceilings	212244-13	mjp on pipe covering	OMA	90	4 in. O.D.	LPS/R	65	26	III	$3,402	$1,890	$5,292
	at ceilings	212244-13	mjp on pipe covering	OMA	4	8 in. O.D.	LPS/R	65	26	III	$259	$152	$411
	at ceilings	212244-13	mjp on pipe covering	OMA	18	6 in. O.D.	LPS/R	65	26	III	$937	$550	$1,487
		212245-13	mjp on pipe covering	OMA				60	26	III			
		212246-13	mjp on pipe covering	OMA				70	26	III			
	at ceilings	212247-14	wrapped cardboard/paper pipe	OMA	80	ft. 6 in. O.D.	DW	12	26	III	$1,397	$874	$2,271
	at ceilings	212247-14	wrapped cardboard/paper pipe	OMA	346	ft. 4 in. O.D.	DW	12	26	III	$4,152	$2,598	$6,750
		212248-14	wrapped cardboard/paper pipe	OMA				11	26	III			
		212249-14	wrapped cardboard/paper pipe	OMA				10	26	III			
	at ceilings	212250-15	mjp on wrapped cardboard/paper	OMA	3	6 in. O.D.	DW	60	26	III	$156	$92	$248
	at ceilings	212250-15	mjp on wrapped cardboard/paper	OMA	25	4 in. O.D.	DW	60	26	III	$945	$525	$1,470
		212251-15	mjp on wrapped cardboard/paper	OMA				0	26	III			
		212252-15	mjp on wrapped cardboard/paper	OMA				60	26	III			
	at ceilings	212253-16	corrugated pipe covering	OMA	35	ft. 4 in. O.D.	DW	50	26	III	$420	$263	$683
		212254-16	corrugated pipe covering	OMA				15	26	III			
		212255-16	corrugated pipe covering	OMA				20	26	III			
	at ceilings	212256-17	wrapped cardboard/paper pipe	OMA	350	ft. 8 in. O.D.	DR	0	26	III	$6,664	$4,760	$11,424
	at ceilings	212256-17	wrapped cardboard/paper pipe	OMA	80	ft. 12 in. O.D.	DR	0	26	III	$2,370	$1,822	$4,192
	at ceilings	212256-17	wrapped cardboard/paper pipe	OMA	380	ft. 10 in. O.D.	DR	0	26	III	$9,644	$7,144	$16,788
	at ceilings	212256-17	wrapped cardboard/paper pipe	OMA	15	ft. 6 in. O.D.	DR	0	26	III	$262	$164	$426

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212257-17	wrapped cardboard/paper pipe	OMA				0	26	III			
			212258-17	wrapped cardboard/paper pipe	OMA				2	26	III			
		at ceilings	212259-18	mjp on wrapped cardboard/paper	OMA	5	8 in. O.D.	DR	80	26	III	$324	$190	$514
		at ceilings	212259-18	mjp on wrapped cardboard/paper	OMA	5	12 in. O.D.	DR	80	26	III	$510	$319	$829
		at ceilings	212259-18	mjp on wrapped cardboard/paper	OMA	10	6 in. O.D.	DR	80	26	III	$520	$306	$826
		at ceilings	212259-18	mjp on wrapped cardboard/paper	OMA	6	10 in. O.D.	DR	80	26	III	$505	$316	$821
			212260-18	mjp on wrapped cardboard/paper	OMA				0	26	III			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	26	III			
		at ceilings	212263-19	mjp on corrugate pipe covering	OMA	3	4 in. O.D.	DW	80	26	III	$113	$63	$176
			212264-19	mjp on corrugate pipe covering	OMA				70	26	III			
			212265-19	mjp on corrugate pipe covering	OMA				70	26	III			
		southwest corner-on fan unit	212275-20	corrugated pipe covering	OMA	35	ft. 4 in. O.D.	CON	30	26	III	$420	$263	$683
			212276-20	corrugated pipe covering	OMA				20	26	III			
			212277-20	corrugated pipe covering	OMA				0	26	III			
		at ceilings	212218-5	wrapped cardboard/paper pipe	OMA	150	ft. 4 in. O.D.	CWS/R	10	26	III	$1,800	$1,127	$2,927
		at ceilings	212218-5	wrapped cardboard/paper pipe	OMA	210	ft. 6 in. O.D.	CWS/R	10	26	III	$3,667	$2,293	$5,960
		at ceilings	212218-5	wrapped cardboard/paper pipe	OMA	790	ft. 8 in. O.D.	CWS/R	10	26	III	$15,042	$10,744	$25,786
		at ceilings	212218-5	wrapped cardboard/paper pipe	OMA	230	ft. 10 in. O.D.	CWS/R	10	26	III	$5,837	$4,324	$10,161
			212219-5	wrapped cardboard/paper pipe	OMA				10	26	III			
			212220-5	wrapped cardboard/paper pipe	OMA				20	26	III			
		at ceilings	212221-6	mjp on wrapped cardboard/paper	OMA	3	4 in. O.D.	CWS/R	0	26	III	$113	$63	$176
		at ceilings	212221-6	mjp on wrapped cardboard/paper	OMA	6	6 in. O.D.	CWS/R	0	26	III	$312	$183	$495
		at ceilings	212221-6	mjp on wrapped cardboard/paper	OMA	22	8 in. O.D.	CWS/R	0	26	III	$1,425	$838	$2,263
			212222-6	mjp on wrapped cardboard/paper	OMA				10	26	III			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	26	III			

The suspect material in this area runs along the ceiling area. It is in good condition without visible damage. AREA TOTAL $104,338 $69,077 $173,415

14 FEDERAL Ground Floor-West End-Office Area AREA AVERAGE % ASB - 39%

above semipermanent drop ceiling	212241-12	pipe covering	OMA	375	ft. 4 in. O.D.	LPS	80	14	IV	$4,500	$2,816	$7,316
	212242-12	pipe covering	OMA				70	14	IV			
	212243-12	pipe covering	OMA				85	14	IV			
above semipermanent drop ceiling	212244-13	mjp on pipe covering	OMA	50	4 in. O.D.	LPS	65	14	IV	$1,890	$1,050	$2,940
	212245-13	mjp on pipe covering	OMA				60	14	IV			
	212246-13	mjp on pipe covering	OMA				70	14	IV			
above semipermanent drop ceiling	212247-14	wrapped cardboard/paper pipe	OMA	120	ft. 4 in. O.D.	DW	12	14	IV	$1,440	$901	$2,341

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212248-14	wrapped cardboard/paper pipe	OMA				11	14	IV			
			212249-14	wrapped cardboard/paper pipe	OMA				10	14	IV			
		above semipermanent drop ceiling	212250-15	mjp on wrapped cardboard/paper	OMA	5	4 in. O.D.	DW	60	14	IV	$189	$105	$294
			212251-15	mjp on wrapped cardboard/paper	OMA				0	14	IV			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	14	IV			
		above semipermanent drop ceiling	212256-17	wrapped cardboard/paper pipe	OMA	110	ft. 8 in. O.D.	DR	0	14	IV	$2,094	$1,496	$3,590
			212257-17	wrapped cardboard/paper pipe	OMA				0	14	IV			
			212258-17	wrapped cardboard/paper pipe	OMA				2	14	IV			
		The pipe insulation is located above the semipermanent metal-plate drop ceiling. Access is very limited without removing several metal panels. The materials were observed to be in good condition.							AREA TOTAL			$10,113	$6,368	$16,481
15	FEDERAL	Ground Floor-North Mechanical Room							AREA AVERAGE % ASB - 34%					
		sides of air handler unit near floor	216014-32	exterior duct insulation	OMB	100	sq.ft.		30	96	I	$3,218	$2,592	$5,810
		on floor near air handler unit	216014-32	debris	OMF	4	sq.ft.		30	96	I	$100	$0	$100
			216016-32	exterior duct insulation	OMB				40	96	I			
			216017-32	exterior duct insulation	OMB				35	96	I			
		Localized damage is present near the floor area. Debris on the floor is a result of impact damage and mechanical vibration. If the debris was cleaned up and the damage was repaired, this room would present little potential for health hazard.							AREA TOTAL			$3,318	$2,592	$5,910
16	FEDERAL	Ground Floor-North Mechanical Room							AREA AVERAGE % ASB - 32%					
		walls & ceiling	212241-12	pipe covering	OMA	45	ft. 4 in. O.D.	LPS/R	80	22	III	$540	$338	$878
		walls & ceiling	212241-12	pipe covering	OMA	40	ft. 6 in. O.D.	LPS/R	80	22	III	$698	$437	$1,135
			212242-12	pipe covering	OMA				70	22	III			
			212243-12	pipe covering	OMA				85	22	III			
		walls & ceiling	212244-13	mjp on pipe covering	OMA	11	4 in. O.D.	LPS/R	65	22	III	$416	$231	$647
		walls & ceiling	212244-13	mjp on pipe covering	OMA	10	6 in. O.D.	LPS/R	65	22	III	$520	$306	$826
			212245-13	mjp on pipe covering	OMA				60	22	III			
			212246-13	mjp on pipe covering	OMA				70	22	III			
		ceiling	216014-32	exterior duct insulation	OMB	4200	sq.ft.		30	22	III	$135,156	$108,864	$244,020
			216015-32	exterior duct insulation	OMB				30	22	III			
			216016-32	exterior duct insulation	OMB				40	22	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		walls & ceiling	212218-5	wrapped cardboard/paper pipe	OMA	10	ft. 6 in. O.D.	DW	10	22	III	$175	$109	$284
			212219-5	wrapped cardboard/paper pipe	OMA				10	22	III			
			212220-5	wrapped cardboard/paper pipe	OMA				20	22	III			
		walls & ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	4	6 in. O.D.	DW	0	22	III	$208	$122	$330
			212222-6	mjp on wrapped cardboard/paper	OMA				10	22	III			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	22	III			
		walls & ceiling	212224-7	mjp on non-suspect pipe cover	OMA	25	6 in. O.D.	LPS/R	0					
			212225-7	mjp on non-suspect pipe cover	OMA				0					
			212226-7	mjp on non-suspect pipe cover	OMA				0					
		Duct and pipe insulation are present in this room. Generally the material is in good condition.							AREA TOTAL			$137,713	$110,407	$248,120
17	FEDERAL	Ground Floor-Kitchen-Mechanical Room					AREA AVERAGE % ASB - 16%							
		above air handler	216012-31	exterior duct insulation	OMB	20	sq.ft.		0	96	I	$644	$518	$1,162
			216012-31	exterior duct insulation	OMB				0	96	I			
			216013-31	exterior duct insulation	OMB				35	96	I			
		on floor near air handler	216015-31	debris	OMF	4	sq.ft.		30	96	I	$100	$0	$100
		The upper surface of the air handler unit is covered with badly damaged and very friable duct insulation. Insulation debris was found on the floor area. The debris should be properly cleaned up. In the event of removal action, this room should undergo gross abatement using HEPA vacuum and wet wipe procedures.							AREA TOTAL			$744	$518	$1,262
18	FEDERAL	Ground Floor-Kitchen-Mechanical Area					AREA AVERAGE % ASB - 31%							
		ceiling	212241-12	pipe covering	OMA	10	ft. 8 in. O.D.	LPS/R	80	52	II	$190	$136	$326
		ceiling	212241-12	pipe covering	OMA	15	ft. 4 in. O.D.	LPS/R	80	52	II	$180	$113	$293
			212242-12	pipe covering	OMA				70	52	II			
			212243-12	pipe covering	OMA				85	52	II			
		ceiling	212244-13	mjp on pipe covering	OMA	6	8 in. O.D.	LPS/R	65	52	II	$389	$228	$617
		ceiling	212244-13	mjp on pipe covering	OMA	10	4 in. O.D.	LPS/R	65	52	II	$378	$210	$588
			212245-13	mjp on pipe covering	OMA				60	52	II			
			212246-13	mjp on pipe covering	OMA				70	52	II			
		ceiling	216012-31	exterior duct insulation	OMB	3112	sq.ft.		0	52	II	$100,144	$80,663	$180,807
			216013-31	exterior duct insulation	OMB				35	52	II			
			216015-31	exterior duct insulation	OMB				30	52	II			

PA 079009

H-K Building #: 71

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	ceiling		216014-32	exterior duct insulation	OMB	150	sq.ft.		30	52	II	$4,827	$3,888	$8,715
			216016-32	exterior duct insulation	OMB				40	52	II			
			216017-32	exterior duct insulation	OMB				35	52	II			
	ceiling		212218-5	wrapped cardboard/paper pipe	OMA	15	ft. 4 in. O.D.	DW	10	52	II	$180	$113	$293
			212219-5	wrapped cardboard/paper pipe	OMA				10	52	II			
			212220-5	wrapped cardboard/paper pipe	OMA				20	52	II			
	ceiling		212221-6	mjp on wrapped cardboard/paper	OMA	1	4 in. O.D.	DW	0	52	II	$38	$21	$59
			212222-6	mjp on wrapped cardboard/paper	OMA				10	52	II			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	52	II			
	ceiling		212224-7	mjp on non-suspect pipe cover	OMA	10	6 in. O.D.	CWS/R	0					
	ceiling		212224-7	mjp on non-suspect pipe cover	OMA	10	8 in. O.D.	CWS/R	0					
	ceiling		212224-7	mjp on non-suspect pipe cover	OMA	4	10 in. O.D.	CWS/R	0					
			212225-7	mjp on non-suspect pipe cover	OMA				0					
			212226-7	mjp on non-suspect pipe cover	OMA				0					
	Contact and water damage has occured to these materials. Debris is present on the floor and duct surfaces. The damaged materials should be repaired and replaced. All debris should be properly cleaned up.								AREA TOTAL			$106,326	$85,372	$191,698
19	FEDERAL	Ground Floor-Rooms-Ceilings							AREA AVERAGE % ASB - 0%					
	cafeteria-dining area		212273-0	acoustical tile	OMG	800	sq.ft.		0					
	GSA office		216011-0	drop or lay-in panel	OMG	500	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
20	FEDERAL	Ground Floor-Kitchen							AREA AVERAGE % ASB - 45%					
	in storage case-at ceiling		212241-12	pipe covering	OMA	1	ft. 6 in. O.D.	LPS/R	80	48	II	$17	$11	$28
			212242-12	pipe covering	OMA				70	48	II			
			212243-12	pipe covering	OMA				85	48	II			
	below obsolete dishwashing unit		212256-17	wrapped cardboard/paper pipe	OMA	7	ft. 4 in. O.D.	DW	0	48	II	$84	$53	$137
	food prep area-below sinks		212256-17	wrapped cardboard/paper pipe	OMA	12	ft. 4 in. O.D.	DW	0	48	II	$144	$90	$234
			212257-17	wrapped cardboard/paper pipe	OMA				0	48	II			
			212258-17	wrapped cardboard/paper pipe	OMA				2	48	II			
	below obsolete dishwashing unit		212259-18	mjp on wrapped cardboard/paper	OMA	9	4 in. O.D.	DW	80	48	II	$340	$189	$529
	food prep area-below sinks		212259-18	mjp on wrapped cardboard/paper	OMA	20	4 in. O.D.	DW	80	48	II	$756	$420	$1,176

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212260-18	mjp on wrapped cardboard/paper	OMA				0	48	II			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	48	II			
		The material is in very bad condition. It has experienced both impact and water damage. All pipe insulation should be removed and replaced with non-asbestos material in the event of removal. The material can be glove bagged.							AREA TOTAL			$1,341	$763	$2,104
21	FEDERAL	Ground Floor-Kitchen-Compressor Room					AREA AVERAGE % ASB - 0%							
		along walls	216010-0	pipe covering	OMA		8 ft. 4 in. O.D.	CWS/R	0					
									AREA TOTAL			$0	$0	$0
22	FEDERAL	Ground Floor-Kitchen					AREA AVERAGE % ASB - 25%							
		above semipermanent metal drop ceiling	212256-17	wrapped cardboard/paper pipe	OMA		200 ft. 4 in. O.D.	DW	0	17	IV	$2,400	$1,502	$3,902
			212257-17	wrapped cardboard/paper pipe	OMA				0	17	IV			
			212258-17	wrapped cardboard/paper pipe	OMA				2	17	IV			
		above semipermanent metal drop ceiling	212259-17	mjp on wrapped cardboard/paper	OMA		52 4 in. O.D.	DW	80	17	IV	$1,966	$1,092	$3,058
			212260-17	mjp on wrapped cardboard/paper	OMA				0	17	IV			
			212261-17	mjp on wrapped cardboard/paper	OMA				65	17	IV			
		his material is located above the semipermanent metal drop ceiling. It is enclosed behind a barrier and is asily accessible if the ceiling system is removed.							AREA TOTAL			$4,366	$2,594	$6,960
23	FEDERAL	Ground Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 22%							
		throughout	216012-31	exterior duct insulation	OMB		9000 sq.ft.		0	36	III	$289,620	$233,280	$522,900
			216013-31	exterior duct insulation	OMB				35	36	III			
			216015-31	exterior duct insulation	OMB				30	36	III			
		The quantities of duct insulation were estimated from available blueprints. Where the duct insulation was able to be inspected, the joint material was found to be damaged and/or missing.							AREA TOTAL			$289,620	$233,280	$522,900

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AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
24	FEDERAL	2nd Floor-Ceilings					AREA AVERAGE % ASB - 1%							
		room 223	212262-0	drop or lay-in panel	OMG	1242	sq.ft.		0					
		FAA regional director's office	212262-0	drop or lay-in panel	OMG	1636	sq.ft.		0					
		room 246	212262-0	drop or lay-in panel	OMG	500	sq.ft.		0					
		FAA lobby ceiling	212270-0	drop or lay-in panel	OMG	400	sq.ft.		2	26	III	$3,024	$1,100	$4,124
		The material was found to be in good condition without any visible damage.							AREA TOTAL			$3,024	$1,100	$4,124
25	FEDERAL	2nd Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 35%							
		throughout	216014-32	exterior duct insulation	OMB	13200	sq.ft.		30	36	III	$424,776	$342,144	$766,920
			216016-32	exterior duct insulation	OMB				40	36	III			
			216017-32	exterior duct insulation	OMB				35	36	III			
		Localized contact damage was observed. All quantities were taken from available blueprints.							AREA TOTAL			$424,776	$342,144	$766,920
26	FEDERAL	3rd Floor-Above Drop Ceiling					AREA AVERAGE % ASB - 38%							
		throughout	216001-29	exterior duct insulation	OMB	15800	sq.ft.		35	36	III	$508,444	$409,536	$917,980
			216002-29	exterior duct insulation	OMB				40	36	III			
			216003-29	exterior duct insulation	OMB				38	36	III			
		The duct insulation is located above the drop ceiling and the quantities of insulation were estimated from available blueprints. The insulation is in fair to poor condition with joint material damaged or missing.							AREA TOTAL			$508,444	$409,536	$917,980
27	FEDERAL	East Penthouse-Mechanical Room					AREA AVERAGE % ASB - 37%							
		on duct work	212215-0	vibration joint cloth	OMZ	18	sq.ft.		60	24	III	$322	$173	$495
		throughout	212241-12	pipe covering	OMA	40	ft. 6 in. O.D.	LPS	80	24	III	$698	$437	$1,135
		throughout	212241-12	pipe covering	OMA	40	ft. 8 in. O.D.	LPS	80	24	III	$762	$544	$1,306
		throughout	212241-12	pipe covering	OMA	30	ft. 4 in. O.D.	LPS	80	24	III	$360	$225	$585
			212242-12	pipe covering	OMA				70	24	III			
			212243-12	pipe covering	OMA				85	24	III			
		throughout	212244-13	mjp on pipe covering	OMA	10	4 in. O.D.	LPS	65	24	III	$378	$210	$588

PA 079015

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212251-15	mjp on wrapped cardboard/paper	OMA				0	13	IV			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	13	IV			
		Roof drains run above semipermanent drop ceilings and pipe chases. The material appears to be in good condition.							AREA TOTAL			$12,685	$7,783	$20,468
39	FEDERAL	Within Walls-Steam Risers							AREA AVERAGE % ASB - 72%					
		throughout perimeter walls	212241-12	pipe covering	OMA	408 ft. 4 in. O.D.		LPS	80	8	IV	$4,896	$3,064	$7,960
			212242-12	pipe covering	OMA				70	8	IV			
			212243-12	pipe covering	OMA				85	8	IV			
		throughout perimeter walls	212244-13	mjp on pipe covering	OMA	50 4 in. O.D.		LPS	65	8	IV	$1,890	$1,050	$2,940
			212245-13	mjp on pipe covering	OMA				60	8	IV			
			212246-13	mjp on pipe covering	OMA				70	8	IV			
		All insulation material is inaccessible within the walls. Quantities were estimated from available blueprints.							AREA TOTAL			$6,786	$4,114	$10,900
40	FEDERAL	Miscellaneous Non-friable Materials							AREA AVERAGE % ASB - 9%					
		center penthouse-office-walls-pegboard	212272-0	Transite interior wall	OMZ	300 sq.ft.			40	7	IV	$2,100	$1,500	$3,600
		center penthouse-elevator control room	216007-0	vinyl floor tile	OMZ	200 sq.ft.			2	7	IV	$908	$688	$1,596
		1st floor	216007-0	vinyl floor tile	OMZ	32124 sq.ft.			2	7	IV	$145,843	$110,507	$256,350
		1st floor	216008-0	vinyl floor tile	OMZ	5086 sq.ft.			0					
		center penthouse-elevator control room	99999-0	brake shoes	OMZ	2 sq. ft.						$275	$0	$275
									AREA TOTAL			$149,126	$112,695	$261,821
								TENANT - FEDERAL	TOTAL			2,356,207	1,780,261	4,136,468
									BUILDING TOTAL			2,356,207	1,780,261	4,136,468

PA 079017

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		Some of the material is breaking away and falling onto the floor below.							AREA TOTAL			$8,624	$6,947	$15,571
36	FEDERAL	Pipe Chases					AREA AVERAGE % ASB - 25%							
		1st, 2nd & 3rd floor-rest rooms	212256-17	wrapped cardboard/paper pipe	OMA	1200	ft. 4 in. O.D.	DW	0	26	III	$14,400	$9,012	$23,412
			212257-17	wrapped cardboard/paper pipe	OMA				0	26	III			
			212258-17	wrapped cardboard/paper pipe	OMA				2	26	III			
		1st, 2nd & 3rd floors-rest rooms	212259-18	mjp on wrapped cardboard/paper	OMA	444	4 in. O.D.	DW	80	26	III	$16,783	$9,324	$26,107
			212260-18	mjp on wrapped cardboard/paper	OMA				0	26	III			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	26	III			
		Some of the material is breaking away and falling onto the floor below.							AREA TOTAL			$31,183	$18,336	$49,519
37	FEDERAL	Penthouse Stairways					AREA AVERAGE % ASB - 30%							
		center penthouse-north wall	212247-14	wrapped cardboard/paper pipe	OMA	5	ft. 6 in. O.D.	DR	12	26	III	$87	$55	$142
		north penthouse-north wall	212247-14	wrapped cardboard/paper pipe	OMA	5	ft. 6 in. O.D.	DR	12	26	III	$87	$55	$142
		east penthouse-west wall	212247-14	wrapped cardboard/paper pipe	OMA	5	ft. 6 in. O.D.	DR	12	26	III	$87	$55	$142
			212248-14	wrapped cardboard/paper pipe	OMA				11	26	III			
			212249-14	wrapped cardboard/paper pipe	OMA				10	26	III			
		center penthouse-north wall	212250-15	mjp on wrapped cardboard/paper	OMA	1	4 in. O.D.	DR	60	26	III	$38	$21	$59
		north penthouse-north wall	212250-15	mjp on wrapped cardboard/paper	OMA	1	4 in. O.D.	DR	60	26	III	$38	$21	$59
		east penthouse-west wall	212250-15	mjp on wrapped cardboard/paper	OMA	1	4 in. O.D.	DR	60	26	III	$38	$21	$59
			212251-15	mjp on wrapped cardboard/paper	OMA				0	26	III			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	26	III			
		The material in these areas is in good condition.							AREA TOTAL			$375	$228	$603
38	FEDERAL	Roof					AREA AVERAGE % ASB - 26%							
		within pipe chases & above drop ceilings	212247-14	wrapped cardboard/paper pipe	OMA	500	ft. 6 in. O.D.	DR	12	13	IV	$8,730	$5,460	$14,190
			212248-14	wrapped cardboard/paper pipe	OMA				11	13	IV			
			212249-14	wrapped cardboard/paper pipe	OMA				10	13	IV			
		within pipe chases & above drop ceilings	212250-15	mjp on wrapped cardboard/paper	OMA	76	6 in. O.D.	DR	60	13	IV	$3,955	$2,323	$6,278

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212285-23	pipe covering	OMA				70	24	III			
		throughout	212286-24	mjp on pipe covering	OMA	10	8 in. O.D.	LPS/R	30	24	III	$648	$381	$1,029
		throughout	212286-24	mjp on pipe covering	OMA	16	4 in. O.D.	LPS/R	30	24	III	$605	$336	$941
			212287-24	mjp on pipe covering	OMA				30	24	III			
			212288-24	mjp on pipe covering	OMA				30	24	III			
		along south wall	212289-25	mjp on non-suspect pipe cover	OMA	22	6 in. O.D.	CWS/R	0	24	III	$1,145	$673	$1,818
			212290-25	mjp on non-suspect pipe cover	OMA				25	24	III			
			212291-25	mjp on non-suspect pipe cover	OMA				0	24	III			
		The material is in good condition.							AREA TOTAL			$8,907	$5,680	$14,587
33	FEDERAL	Penthouse-North Mechanical Room						AREA AVERAGE % ASB - 8%						
		adjacent to air handler	212289-25	mjp on non-suspect pipe cover	OMA	6	6 in. O.D.	CWS/R	0	78	I	$312	$183	$495
			212290-25	mjp on non-suspect pipe cover	OMA				25	78	I			
			212291-25	mjp on non-suspect pipe cover	OMA				0	78	I			
		The material is loose and hanging off piping; some debris is found below on the floor. This damaged material should be removed using glove bag procedures. Any associated debris should be cleaned up using HEPA vacuum and wet wipe procedures.							AREA TOTAL			$312	$183	$495
34	FEDERAL	Penthouse-North Mechanical Room						AREA AVERAGE % ASB - 1%						
		throughout	216004-30	exterior duct insulation	OMB	984	sq.ft.		0	23	III	$31,665	$25,505	$57,170
			216005-30	exterior duct insulation	OMB				2	23	III			
			216006-30	exterior duct insulation	OMB				0	23	III			
		The material is in good condition with minor contact damage in localized areas.							AREA TOTAL			$31,665	$25,505	$57,170
35	FEDERAL	Penthouse-North Mechanical Room						AREA AVERAGE % ASB - 38%						
		intake duct	216001-29	exterior duct insulation	OMB	268	sq.ft.		35	41	II	$8,624	$6,947	$15,571
			216002-29	exterior duct insulation	OMB				40	41	II			
			216003-29	exterior duct insulation	OMB				38	41	II			

PA 079019

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			212285-23	pipe covering	OMA				70	25	III			
		ceiling-from E wall & over air handler	212286-24	mjp on pipe covering	OMA	17	4 in. O.D.	LPS	30	25	III	$643	$357	$1,000
		ceiling-from E wall & over air handler	212286-24	mjp on pipe covering	OMA	6	6 in. O.D.	LPS	30	25	III	$312	$183	$495
			212287-24	mjp on pipe covering	OMA				30	25	III			
			212288-24	mjp on pipe covering	OMA				30	25	III			
		along air handler & overhead	212298-28	mjp on non-suspect pipe cover	OMA	18	4 in. O.D.	CWS/R	0	25	III	$680	$378	$1,058
		along air handler & overhead	212298-28	mjp on non-suspect pipe cover	OMA	40	6 in. O.D.	CWS/R	0	25	III	$2,082	$1,223	$3,305
			212299-28	mjp on non-suspect pipe cover	OMA				0	25	III			
			212300-28	mjp on non-suspect pipe cover	OMA				2	25	III			
		on air handlers & fan	216001-29	exterior duct insulation	OMB	700	sq.ft.		35	25	III	$22,526	$18,144	$40,670
			216002-29	exterior duct insulation	OMB				40	25	III			
			216003-29	exterior duct insulation	OMB				38	25	III			
		over cork on duct work	216004-30	exterior duct insulation	OMB	2900	sq.ft.		0	25	III	$93,322	$75,168	$168,490
			216005-30	exterior duct insulation	OMB				2	25	III			
			216006-30	exterior duct insulation	OMB				0	25	III			
		This room was very clean with very limited contact and water damage. Any damage should be repaired as needed. In the event of removal this room should undergo gross abatement.							AREA TOTAL			$125,135	$98,886	$224,021
32	FEDERAL	Penthouse-North Mechanical Room							AREA AVERAGE % ASB - 28%					
		along south wall	212274-20	corrugated pipe covering	OMA	7	ft. 4 in. O.D.	CON	50	24	III	$84	$53	$137
			212275-20	corrugated pipe covering	OMA				30	24	III			
			212276-20	corrugated pipe covering	OMA				20	24	III			
		throughout	212277-21	wrapped cardboard/paper pipe	OMA	55	ft. 6 in. O.D.	CWS/R	0	24	III	$960	$601	$1,561
		throughout	212277-21	wrapped cardboard/paper pipe	OMA	12	ft. 4 in. O.D.	CWS/R	0	24	III	$144	$90	$234
		throughout	212277-21	wrapped cardboard/paper pipe	OMA	110	ft. 8 in. O.D.	CWS/R	0	24	III	$2,094	$1,496	$3,590
			212278-21	wrapped cardboard/paper pipe	OMA				0	24	III			
			212279-21	wrapped cardboard/paper pipe	OMA				5	24	III			
		throughout	212280-22	mjp on wrapped cardboard/paper	OMA	2	4 in. O.D.	CWS/R	30	24	III	$76	$42	$118
		throughout	212280-22	mjp on wrapped cardboard/paper	OMA	16	8 in. O.D.	CWS/R	30	24	III	$1,036	$609	$1,645
		throughout	212280-22	mjp on wrapped cardboard/paper	OMA	9	6 in. O.D.	CWS/R	30	24	III	$468	$275	$743
			212281-22	mjp on wrapped cardboard/paper	OMA				0	24	III			
			212282-22	mjp on wrapped cardboard/paper	OMA				40	24	III			
		throughout	212283-23	pipe covering	OMA	55	ft. 8 in. O.D.	LPS/R	70	24	III	$1,047	$748	$1,795
		throughout	212283-23	pipe covering	OMA	50	ft. 4 in. O.D.	LPS/R	70	24	III	$600	$376	$976
			212284-23	pipe covering	OMA				70	24	III			

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		air handler-west side-center	212292-26	mjp on non-suspect pipe cover	OMA	21	4 in. O.D.	CWS/R	0	25	III	$794	$441	$1,235
			212293-26	mjp on non-suspect pipe cover	OMA				12	25	III			
			212294-26	mjp on non-suspect pipe cover	OMA				0	25	III			
		air handler & fan	216001-29	exterior duct insulation	OMB	700	sq.ft.		35	25	III	$22,526	$18,144	$40,670
			216002-29	exterior duct insulation	OMB				40	25	III			
			216003-29	exterior duct insulation	OMB				38	25	III			
		over cork on duct work	216004-30	exterior duct insulation	OMB	1256	sq.ft.		0	25	III	$40,418	$32,556	$72,974
			216005-30	exterior duct insulation	OMB				2	25	III			
			216006-30	exterior duct insulation	OMB				0	25	III			
									AREA TOTAL			$74,352	$57,567	$131,919

The room was very clean, but debris was found along the west wall behind the duct work. Very limited contact and water damage was present. An Operations and Maintenance Plan is recommended. If removal is planned, glove bag removal procedures are recommended.

31 FEDERAL Penthouse-West Mechanical Room AREA AVERAGE % ASB - 24%

		northeast & southeast corners	212247-14	wrapped cardboard/paper pipe	OMA	40	ft. 6 in. O.D.	DR	12	25	III	$698	$437	$1,135
			212248-14	wrapped cardboard/paper pipe	OMA				11	25	III			
			212249-14	wrapped cardboard/paper pipe	OMA				10	25	III			
		northeast & southeast corners	212250-15	mjp on wrapped cardboard/paper	OMA	5	6 in. O.D.	DR	60	25	III	$260	$153	$413
			212251-15	mjp on wrapped cardboard/paper	OMA				0	25	III			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	25	III			
		along north side of air handler	212256-17	wrapped cardboard/paper pipe	OMA	35	ft. 4 in. O.D.	DW	0	25	III	$420	$263	$683
			212257-17	wrapped cardboard/paper pipe	OMA				0	25	III			
			212258-17	wrapped cardboard/paper pipe	OMA				2	25	III			
		north side of air handler	212259-18	mjp on wrapped cardboard/paper	OMA	5	4 in. O.D.	DW	80	25	III	$189	$105	$294
			212260-18	mjp on wrapped cardboard/paper	OMA				0	25	III			
			212261-18	mjp on wrapped cardboard/paper	OMA				65	25	III			
		ceiling-east wall to air handler	212277-21	wrapped cardboard/paper pipe	OMA	100	ft. 6 in. O.D.	CWS/R	0	25	III	$1,746	$1,092	$2,838
			212278-21	wrapped cardboard/paper pipe	OMA				0	25	III			
			212279-21	wrapped cardboard/paper pipe	OMA				5	25	III			
		ceiling-east wall to air handler	212280-22	mjp on wrapped cardboard/paper	OMA	14	6 in. O.D.	CWS/R	30	25	III	$729	$428	$1,157
			212281-22	mjp on wrapped cardboard/paper	OMA				0	25	III			
			212282-22	mjp on wrapped cardboard/paper	OMA				40	25	III			
		ceiling-east wall & over air handler	212283-23	pipe covering	OMA	40	ft. 4 in. O.D.	LPS	70	25	III	$480	$300	$780
		ceiling-east wall & over air handler	212283-23	pipe covering	OMA	60	ft. 6 in. O.D.	LPS	70	25	III	$1,048	$655	$1,703
			212284-23	pipe covering	OMA				70	25	III			

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PA 079021

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		intake duct	216001-29	exterior duct insulation	OMB	700	sq.ft.		35	27	III	$22,526	$18,144	$40,670
			216002-29	exterior duct insulation	OMB				40	27	III			
			216003-29	exterior duct insulation	OMB				38	27	III			
									AREA TOTAL			$22,526	$18,144	$40,670

The duct insulation was found to have encountered contact damage. All damage should be repaired and encapsulated. Any associated debris should be cleaned up using HEPA vacuum and wet wipe procedures.

30 FEDERAL Penthouse-South Mechanical Room AREA AVERAGE % ASB - 22%

	duct work	212266-0	vibration joint cloth	OMZ	15	sq.ft.		0					
	southwest corner	212247-14	wrapped cardboard/paper pipe	OMA	5	ft. 12 in. O.D.	DR	12	25	III	$148	$114	$262
		212248-14	wrapped cardboard/paper pipe	OMA				11	25	III			
		212249-14	wrapped cardboard/paper pipe	OMA				10	25	III			
	southwest corner	212250-14	mjp on wrapped cardboard/paper	OMA	2	12 in. O.D.	DR	60	25	III	$204	$128	$332
		212251-14	mjp on wrapped cardboard/paper	OMA				0	25	III			
		212252-14	mjp on wrapped cardboard/paper	OMA				60	25	III			
	along north wall & west side of AHU	212256-17	wrapped cardboard/paper pipe	OMA	35	ft. 4 in. O.D.	DW	0	25	III	$420	$263	$683
		212257-17	wrapped cardboard/paper pipe	OMA				0	25	III			
		212258-17	wrapped cardboard/paper pipe	OMA				2	25	III			
	north wall and west side of AHU	212259-18	mjp on wrapped cardboard/paper	OMA	5	4 in. O.D.	DW	80	25	III	$189	$105	$294
		212260-18	mjp on wrapped cardboard/paper	OMA				0	25	III			
		212261-18	mjp on wrapped cardboard/paper	OMA				65	25	III			
	under ducts-west side to east tower	212277-21	wrapped cardboard/paper pipe	OMA	155	ft. 6 in. O.D.	CWS/R	0	25	III	$2,706	$1,693	$4,399
		212278-21	wrapped cardboard/paper pipe	OMA				0	25	III			
		212279-21	wrapped cardboard/paper pipe	OMA				5	25	III			
	under ducts-west side to east tower	212280-22	mjp on wrapped cardboard/paper	OMA	24	6 in. O.D.	CWS/R	30	25	III	$1,249	$734	$1,983
		212281-22	mjp on wrapped cardboard/paper	OMA				0	25	III			
		212282-22	mjp on wrapped cardboard/paper	OMA				40	25	III			
	across top of AHU & between AHU & ducts	212283-23	pipe covering	OMA	35	ft. 6 in. O.D.	LPS	70	25	III	$611	$382	$993
	under duct-from E air handler to W side	212283-23	pipe covering	OMA	100	ft. 4 in. O.D.	LPS	70	25	III	$1,200	$751	$1,951
		212284-23	pipe covering	OMA				70	25	III			
		212285-23	pipe covering	OMA				70	25	III			
	across top of AHU & between AHU & ducts	212286-24	mjp on pipe covering	OMA	8	6 in. O.D.	LPS	30	25	III	$416	$245	$661
	under duct-from E air handler to W side	212286-24	mjp on pipe covering	OMA	23	4 in. O.D.	LPS	30	25	III	$869	$483	$1,352
		212287-24	mjp on pipe covering	OMA				30	25	III			
		212288-24	mjp on pipe covering	OMA				30	25	III			
	air handler-west side-center	212292-26	mjp on non-suspect pipe cover	OMA	50	6 in. O.D.	CWS/R	0	25	III	$2,602	$1,528	$4,130

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		throughout	212244-13	mjp on pipe covering	OMA	6	8 in. O.D.	LPS	65	24	III	$389	$228	$617
		throughout	212244-13	mjp on pipe covering	OMA	8	6 in. O.D.	LPS	65	24	III	$416	$245	$661
			212245-13	mjp on pipe covering	OMA				60	24	III			
			212246-13	mjp on pipe covering	OMA				70	24	III			
		throughout	212247-14	wrapped cardboard/paper pipe	OMA	20	ft. 8 in. O.D.	DR	12	24	III	$381	$272	$653
			212248-14	wrapped cardboard/paper pipe	OMA				11	24	III			
			212249-14	wrapped cardboard/paper pipe	OMA				10	24	III			
		throughout	212250-15	mjp on wrapped cardboard/paper	OMA	3	8 in. O.D.	DR	60	24	III	$194	$114	$308
			212251-15	mjp on wrapped cardboard/paper	OMA				0	24	III			
			212252-15	mjp on wrapped cardboard/paper	OMA				60	24	III			
		throughout	212295-27	mjp on non-suspect pipe cover	OMA	3	8 in. O.D.	CWS/R	15	24	III	$194	$114	$308
		throughout	212295-27	mjp on non-suspect pipe cover	OMA	22	6 in. O.D.	CWS/R	15	24	III	$1,145	$673	$1,818
			212296-27	mjp on non-suspect pipe cover	OMA				70	24	III			
			212297-27	mjp on non-suspect pipe cover	OMA				0	24	III			
		throughout	212218-5	wrapped cardboard/paper pipe	OMA	55	ft. 8 in. O.D.	CWS/R	10	24	III	$1,047	$748	$1,795
		throughout	212218-5	wrapped cardboard/paper pipe	OMA	95	ft. 4 in. O.D.	CWS/R	10	24	III	$1,140	$713	$1,853
			212219-5	wrapped cardboard/paper pipe	OMA				10	24	III			
			212220-5	wrapped cardboard/paper pipe	OMA				20	24	III			
		throughout	212221-6	mjp on wrapped cardboard/paper	OMA	10	8 in. O.D.	CWS/R	0	24	III	$648	$381	$1,029
		throughout	212221-6	mjp on wrapped cardboard/paper	OMA	16	4 in. O.D.	CWS/R	0	24	III	$605	$336	$941
			212222-6	mjp on wrapped cardboard/paper	OMA				10	24	III			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	24	III			
		The pipe insulation is present throughout the wall and ceiling area. The material is in good condition without visible damage.							AREA TOTAL			$8,679	$5,413	$14,092
28	FEDERAL	Penthouse-East Mechanical Room							AREA AVERAGE % ASB - 1%					
		throughout	216004-30	exterior duct insulation	OMB	2500	sq.ft.		0	22	III	$80,450	$64,800	$145,250
			216005-30	exterior duct insulation	OMB				2	22	III			
			216006-30	exterior duct insulation	OMB				0	22	III			
		The material is in good condition. In the event of removal, this area should undergo gross removal procedures.							AREA TOTAL			$80,450	$64,800	$145,250
29	FEDERAL	Penthouse-East Mechanical Room							AREA AVERAGE % ASB - 38%					

BUILDING 113
FUEL FARM ACCOUNTING OFFICE

FINDINGS AND OBSERVATIONS

BUILDING 113 - FUEL FARM ACCOUNTING OFFICE

Building 113 is a single-story office building currently occupied by the Fuel Farm Accounting Department. The structure utilizes a forced-air gas heating system and an electric central air cooling system. The facility was constructed in 1975 and encompasses approximately 1,000 square feet.

Suspect materials sampled were 1' by 1' vinyl floor tiles and 2' by 4' lay-in ceiling panels. The vinyl floor tiles were confirmed asbestos-containing. The tiles were in good condition at the time of the inspection. It is recommended they be monitored under an operations and maintenance program and replaced with nonasbestos-containing vinyl floor tiles as deteriorating material condition warrants.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079025

COST ESTIMATE

BUILDING 113 - FUEL FARM ACCOUNTING OFFICE

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$7,980
10% Contingency	$798
Total Removal/Replacement with Contingency	$8,778

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 079026

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT BUILDING: 113

				ASBESTOS					OTHER MATERIALS							
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER		TOTAL
0 -251101	N	Y	2	2									13	70 CAL GM	15	100
0 -251102	N	N	0						30	40		20	10			100

PA 079027

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 88

Building Number: 113 Page 1
Building Name: ACCOUNT OFFICE/FUEL FARM #113
JFK AIRPORT
Building Type: OFFICE
Constructed: 1975
Inspected: 07/27/88
Inspector: Allen Gourd

AREA #	TENANT LOCATION OF MATERIAL	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
11	FUEL FARM	1st Floor-Floors					AREA AVERAGE % ASB -		2%					
	throuhgout		251101-0	vinyl floor tile	OMZ	1000	sq.ft.		2	6	IV	$4,540	$3,440	$7,980
	The material is located throughout the offices. It appears to be fairly new and shows little wear. This area has a lot of traffic and should be monitored.								AREA TOTAL			$4,540	$3,440	$7,980
12	FUEL FARM	1st Floor-Ceiling					AREA AVERAGE % ASB -		0%					
	throughout		251102-0	drop or lay-in panel	OMG	1000	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - FUEL FARM		TOTAL			$4,540	$3,440	$7,980
									BUILDING TOTAL			$4,540	$3,440	$7,980

PA 079028

BUILDING 114
FUEL FARM TOOLHOUSE

FINDINGS AND OBSERVATIONS

BUILDING 114 - FUEL FARM TOOLHOUSE

Building 114 is a single-story, two room, locker room constructed of steel. The facility was built in 1950 and encompasses 300 square feet. The structure utilizes a single gas forced-air unit for heat and a window air conditioning unit.

Asbestos-containing materials identified in this facility include vinyl floor tiles. The tiles were in good condition and have been classified as Priority Level IV. It is recommended the tiles be included in an operations and maintenance program until removed during a phased abatement. The floor tiles present little health hazard unless sawn, sanded, drilled, or altered.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079032

COST ESTIMATE

BUILDING 114 - FUEL FARM TOOLHOUSE

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$2,394
10% Contingency	$239
Total Removal/Replacement with Contingency	$2,633

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 079033

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 114

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER			TOTAL
0 -251103	N	Y	3	3									12	70	CAL GM	15	100

PA 079034

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 89

Building Number: 114 Page 1
Building Name: TOOL HOUSE/FUEL FARM #114
JFK AIRPORT
Building Type: HUT
Constructed: 1950
Inspected: 07/27/88
Inspector: Allen Gourd

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	FUEL FARM	1st Floor-Locker Room-Floor					AREA AVERAGE % ASB - 3%							
	throughout		251103-0	vinyl floor tile	OMZ	300	sq.ft.		3	7	IV	$1,362	$1,032	$2,394
	The material is in good condition, but showing some signs of wear.								AREA TOTAL			$1,362	$1,032	$2,394
							TENANT - FUEL FARM		TOTAL			$1,362	$1,032	$2,394
									BUILDING TOTAL			$1,362	$1,032	$2,394

PA 079035

BUILDING 122
AMERICAN AIRLINES FLIGHT KITCHEN

FINDINGS AND OBSERVATIONS

BUILDING 122 - AMERICAN AIRLINES FLIGHT KITCHEN

Building 122 is a two-story, cinder block and corrugated steel structure. It was constructed in 1976 and encompasses 65,871 square feet. The sole tenant of the building is Sky Chefs, a former subsidiary of American Airlines. The facility utilizes a forced-air hot water system. Ex. 4 A forced-air cooling system is also utilized.

Asbestos-containing vinyl floor tiles were located throughout the first floor and the second floor corridor. The tiles were in good condition and have been classified as Priority Level IV. Vinyl floor tiles are generally nonfriable and present little health hazard unless cut, sawn, torn, drilled, sanded, or structurally altered. The tiles should be included in an operations and maintenance program until they are removed under a phased abatement.

Materials in this building determined not to contain asbestos were mudded joint packings on fiberglass-insulated piping, drop ceiling panels, and fireproofing.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079039

COST ESTIMATE

BUILDING 122 - AMERICAN AIRLINES FLIGHT KITCHEN

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$238,507
10% Contingency	$23,851
Total Removal/Replacement with Contingency	$262,358

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 8.2% of Total Construction Cost:	
8.2% X $262,358	$21,513
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 55 8-hour shifts:	
55 X $490	$26,950
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $262,358	$5,247
Total Project Estimate Including Professional Fees and Contingency	$316,068

PA 079040

PHOTOGRAPH LOG

BUILDING 122 - AMERICAN AIRLINES FLIGHT KITCHEN

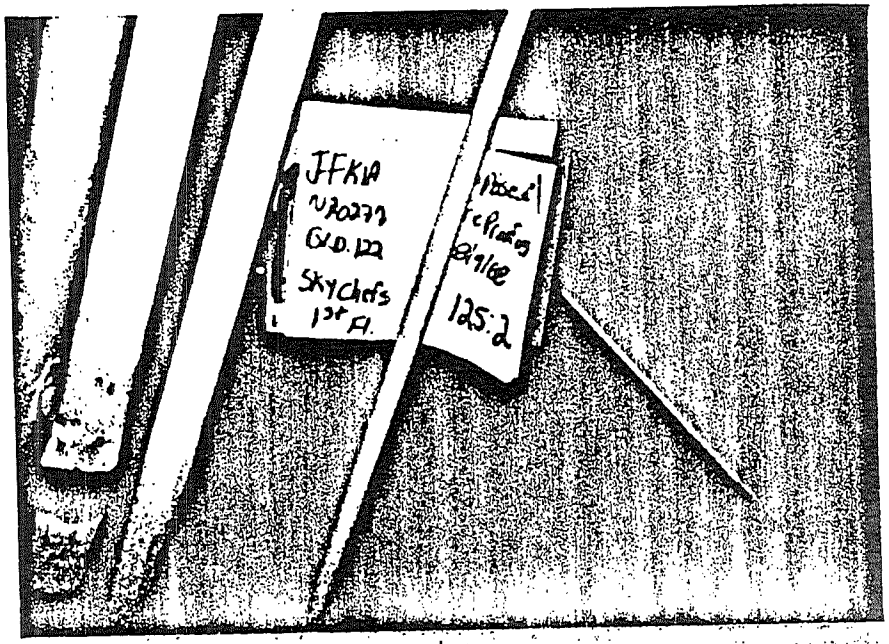
Picture #	Description
1	First Floor, fireproofing on structural steel.
2	Second Floor, Boiler Room, pipe insulation.

PA 079041

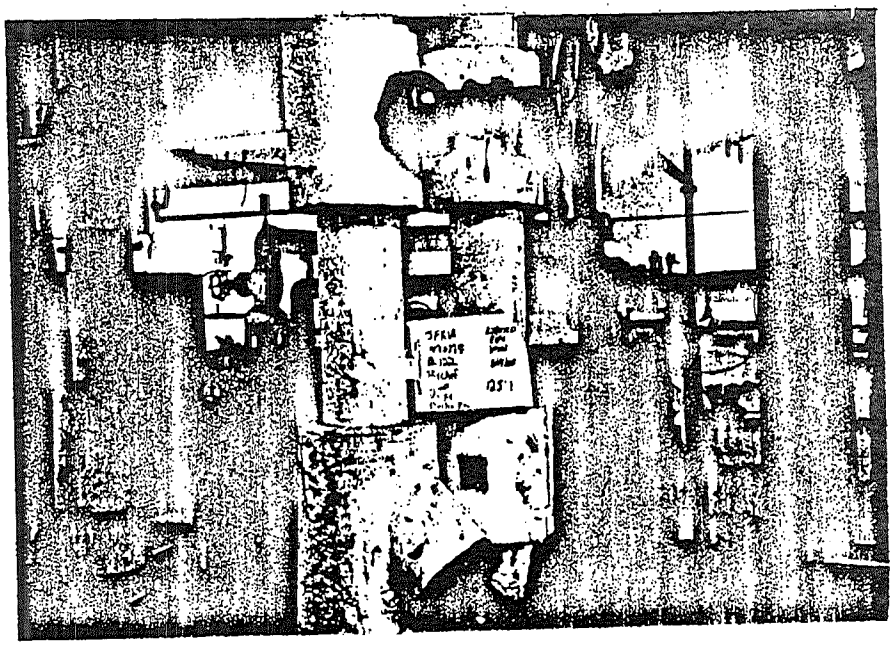
C-LINE #52584
35MM PRINTS

122

1



2



PA 079042

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 122

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -254101	Y	N	0						55				45		100
1 -254102	Y	N	0						50				40	10 COT	100
1 -254103	Y	N	0						45				55		100
12 -254104	Y	N	0							30	35		20	15 GM	100
12 -254105	Y	N	0							25	30		30	15 GM	100
12 -254106	Y	N	0							25	35		25	15 GM	100
3 -254107	Y	N	0						40				50	10 GM	100
3 -254108	Y	N	0						40				50	10 GM	100
3 -254109	Y	N	0						45				55		100
4 -254110	Y	N	0						45				55		100
4 -254111	Y	N	0						40				60		100
4 -254112	Y	N	0						45				55		100
5 -254113	Y	N	0						40				60		100
5 -254114	Y	N	0						40				60		100
5 -254115	Y	N	0						45				55		100
6 -254116	Y	N	0						65				20	15 PT	100
6 -254117	Y	N	0						67				23	10 PT	100
6 -254118	Y	N	0						65				25	10 PT	100
7 -254119	Y	N	0							30	35		20	15 GM	100
7 -254120	Y	N	0							35	35		20	10 GM	100
7 -254121	Y	N	0						10	20	30		25	15 GM	100
7 -254122	Y	N	0						10	20	30		20	20 GM	100
7 -254123	Y	N	0						5	30	35		20	10 GM	100
7 -254124	Y	N	0						10	25	35		15	15 GM	100
7 -254125	Y	N	0						5	30	40		15	10 GM	100
7 -254126	Y	N	0						5	30	35		15	15 GM	100
7 -254127	Y	N	0						5	25	30		25	15 GM	100
0 -254128	N	Y	4	4									40	56 CAL	100
0 -254129	N	N	0						65	5			30		100
7 -254130	N	N	0							20			1	79 TAR	100
3 -254131	Y	N	0						40				50	10 GF	100
8 -254132	Y	N	0						45				45	10 GF	100
8 -254133	Y	N	0						40				45	15 GF	100
9 -254134	Y	N	0						35				50	15 GF	100
9 -254135	Y	N	0						40				50	10 GF	100
9 -254136	Y	N	0						45				45	10 GF	100
10 -254137	Y	N	0						40				60		100
10 -254138	Y	N	0						35				65		100
10 -254139	Y	N	0						45				55		100
0 -254140	N	N	0						55	10			35		100
0 -254141	N	Y	3	3									40	57 CAL	100
11 -254142	Y	N	0						55				35	10 GF	100
11 -254143	Y	N	0						50				35	15 GF	100
11 -254144	Y	N	0						55				30	15 GF	100
12 -254145	Y	N	0							30	35		20	15 GM	100
12 -254146	Y	N	0							25	40		20	15 GM	100
12 -254147	Y	N	0							40	35		15	10 GM	100
12 -254148	Y	N	0							30	40		15	15 GM	100
12 -254149	Y	N	0							30	35		20	15 GM	100
12 -254150	Y	N	0							30	35		25	10 GM	100
12 -254151	Y	N	0							25	35		25	15 GM	100
12 -254152	Y	N	0							30	40		20	10 GM	100
12 -254153	Y	N	0							30	45		15	10 GM	100
12 -254154	Y	N	0							25	40		20	15 GM	100
12 -254155	Y	N	0							25	40		20	15 GM	100
12 -254156	Y	N	0							25	45		20	10 GM	100
12 -254157	Y	N	0							30	45		15	10 GM	100
12 -254158	Y	N	0							25	35		25	15 GM	100
12 -254159	Y	N	0							30	45		15	10 GM	100
12 -254160	Y	N	0							30	40		20	10 GM	100
12 -254161	Y	N	0							20	45		20	15 GM	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 90

Building Number: 122 Page 1
Building Name: AMERICAN AIRLINES FLIGHT KITCHEN
JFK AIRPORT
Building Type: KITCHEN
Constructed: 1976
Inspected: 08/09/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	SKY CHEFS	1st Floor-Floors					AREA AVERAGE % ASB - 3%							
		throughout	254141-0	vinyl floor tile	OMZ	12288	sq.ft.		3	6	IV	$55,788	$42,271	$98,059
									AREA TOTAL			$55,788	$42,271	$98,059
		The floor tiles are in good condition.												
02	SKY CHEFS	1st Floor					AREA AVERAGE % ASB - 0%							
		ceiling above loading dock	254137-10	mjp on non-suspect pipe cover	OMA	24	4 in. O.D.	CWS/R	0					
			254138-10	mjp on non-suspect pipe cover	OMA				0					
			254139-10	mjp on non-suspect pipe cover	OMA				0					
		ceiling above loading dock	254142-11	mjp on non-suspect pipe cover	OMA	6	10 in. O.D.	HWS/R	0					
			254143-11	mjp on non-suspect pipe cover	OMA				0					
			254144-11	mjp on non-suspect pipe cover	OMA				0					
		ceiling above loading dock	254131-8	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	HWS/R	0					
		ceiling above receiving	254131-8	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	HWS/R	0					
			254132-8	mjp on non-suspect pipe cover	OMA				0					
			254133-8	mjp on non-suspect pipe cover	OMA				0					
		ceiling above loading dock	254134-9	mjp on non-suspect pipe cover	OMA	6	12 in. O.D.	CWS/R	0					
			254134-9	mjp on non-suspect pipe cover	OMA				0					
			254135-9	mjp on non-suspect pipe cover	OMA				0					
			254136-9	mjp on non-suspect pipe cover	OMA				0					
									AREA TOTAL			$0	$0	$0
03	SKY CHEFS	1st Floor-Ceiling					AREA AVERAGE % ASB - 0%							
		throughout	254140-0	drop or lay-in panel	OMG	20160	sq.ft.		0					
									AREA TOTAL			$0	$0	$0

PA 079044

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 90

Building Number: 122
Building Name: AMERICAN AIRLINES FLIGHT KITCHEN JFK AIRPORT
Building Type: KITCHEN
Constructed: 1976
Inspected: 08/09/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			254144-11	mjp on non-suspect pipe cover	OMA				0					
		above paper stores	254131-8	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
		above lobby ceiling	254131-8	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HWS/R	0					
			254132-8	mjp on non-suspect pipe cover	OMA				0					
			254133-8	mjp on non-suspect pipe cover	OMA				0					
		above paper stores	254134-9	mjp on non-suspect pipe cover	OMA	4	10 in. O.D.	CWS/R	0					
		above lobby ceiling	254134-9	mjp on non-suspect pipe cover	OMA	4	10 in. O.D.	CWS/R	0					
			254135-9	mjp on non-suspect pipe cover	OMA				0					
			254136-9	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
06	SKY CHEFS	1st Flr-Ceiling Above Semiperm Ceiling							AREA AVERAGE % ASB - 0%					
		throughout ceiling-in dry stores	254104-12	fireproofing	OMC	1024	sq.ft.		0					
		throughout ceiling-freezer/refrigerator	254104-12	fireproofing	OMC	1681	sq.ft.		0					
		throughout ceiling-liquor/airline stores	254104-12	fireproofing	OMC	900	sq.ft.		0					
		throughout ceiling-pre-prep	254104-12	fireproofing	OMC	480	sq.ft.		0					
		throughout ceiling-north freezer	254104-12	fireproofing	OMC	4096	sq.ft.		0					
		throughout ceiling-liquor storage	254104-12	fireproofing	OMC	4096	sq.ft.		0					
		throughout ceiling-kitchen area	254104-12	fireproofing	OMC	30504	sq.ft.		0					
		throughout ceiling-catering dock	254104-12	fireproofing	OMC	2640	sq.ft.		0					
		throughout ceiling-toilet/track room	254104-12	fireproofing	OMC	1075	sq.ft.		0					
		throughout ceiling-in receiving	254104-12	fireproofing	OMC	1024	sq.ft.		0					
			254105-12	fireproofing	OMC				0					
			254106-12	fireproofing	OMC				0					
			254145-12	fireproofing	OMC				0					
			254146-12	fireproofing	OMC				0					
			254147-12	fireproofing	OMC				0					
			254148-12	fireproofing	OMC				0					
			254149-12	fireproofing	OMC				0					
			254150-12	fireproofing	OMC				0					
			254151-12	fireproofing	OMC				0					
			254152-12	fireproofing	OMC				0					
			254153-12	fireproofing	OMC				0					
			254154-12	fireproofing	OMC				0					

PA 079045

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 90

Building Number: 122 Page 5
Building Name: AMERICAN AIRLINES FLIGHT KITCHEN JFK AIRPORT
Building Type: KITCHEN
Constructed: 1976
Inspected: 08/09/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			254120-7	fireproofing	OMC				0					
			254121-7	fireproofing	OMC				0					
			254122-7	fireproofing	OMC				0					
			254123-7	fireproofing	OMC				0					
			254124-7	fireproofing	OMC				0					
			254125-7	fireproofing	OMC				0					
			254126-7	fireproofing	OMC				0					
			254127-7	fireproofing	OMC				0					
								AREA TOTAL				$0	$0	$0
09	SKY CHEFS	2nd Floor Corridor-Floors					AREA AVERAGE % ASB - 4%							
	throughout		254128-0	vinyl floor tile	OMZ	17600 sq.ft.			4	6	IV	$79,904	$60,544	$140,448
								AREA TOTAL				$79,904	$60,544	$140,448
10	SKY CHEFS	2nd Floor-Above Ceiling					AREA AVERAGE % ASB - 0%							
	above lounge		254107-3	mjp on non-suspect pipe cover	OMA	12 4 in. O.D.		HWS/R	0					
			254108-3	mjp on non-suspect pipe cover	OMA				0					
			254109-3	mjp on non-suspect pipe cover	OMA				0					
	above lounge		254110-4	mjp on non-suspect pipe cover	OMA	8 6 in. O.D.		HWS/R	0					
			254111-4	mjp on non-suspect pipe cover	OMA				0					
			254112-4	mjp on non-suspect pipe cover	OMA				0					
	above lounge		254113-5	mjp on non-suspect pipe cover	OMA	32 4 in. O.D.		DW	0					
			254114-5	mjp on non-suspect pipe cover	OMA				0					
			254115-5	mjp on non-suspect pipe cover	OMA				0					
								AREA TOTAL				$0	$0	$0
11	SKY CHEFS	2nd Floor-Corridor-Ceiling					AREA AVERAGE % ASB - 0%							
	throughout		254129-0	drop or lay-in panel	OMG	12288 sq.ft.			0					

PA 079046

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 90

Building Number: 122
Building Name: AMERICAN AIRLINES FLIGHT KITCHEN JFK AIRPORT
Building Type: KITCHEN
Constructed: 1976
Inspected: 08/09/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
								AREA TOTAL				$0	$0	$0
							TENANT - SKY CHEFS			TOTAL		$135,692	$102,815	$238,507
								BUILDING TOTAL				$135,692	$102,815	$238,507

PA 079047

BUILDING 123
AMERICAN AIRLINES CARGO BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 123 - AMERICAN AIRLINES CARGO BUILDING

Building 123 is a cinder block and structural steel cargo building. It was constructed in 1976 and encompasses 170,900 square feet. The building has two tenants. American Airlines occupies the west two-thirds of the building and Nippon Cargo Air occupies the remainder. American Airlines is responsible for maintenance of the entire building. The facility utilizes a forced-air steam system. Low pressure steam is generated in the boiler room. The office areas are cooled by individual air conditioning units.

Asbestos-containing materials in the building were mudded joint packing on fiberglass-insulated piping systems, breeching insulation, and vinyl floor tiles. The materials were in good condition, with localized areas of contact damage. The areas containing these materials have been classified as Priority Levels III and IV. Hall-Kimbrell recommends repairing the materials as needed and including them in an operations and maintenance program until they are removed under a phased abatement.

Materials in this building determined not to contain asbestos were gasket material, firebrick, drop ceiling panels, acoustical tiles, and other types of vinyl floor tiles.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079053

COST ESTIMATE

BUILDING 123 - AMERICAN AIRLINES CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$62,859
10% Contingency	$6,286
Total Removal/Replacement with Contingency	$69,145

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 12.3% of Total Construction Cost:

12.3% X $69,145 — $8,505

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 20 8-hour shifts:

20 X $490 — $9,800

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $69,145 — $1,383

Total Project Estimate Including Professional Fees and Contingency — $88,833

PA 079054

COST ESTIMATE

BUILDING 123 - AMERICAN AIRLINES CARGO BUILDING

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$97,356
10% Contingency	$9,736
Total Removal/Replacement with Contingency	$107,092

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 10.7% of Total Construction Cost:	
10.7% X $107,092	$11,459
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 28 8-hour shifts:	
28 X $490	$13,720
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $107,092	$2,142
Total Project Estimate Including Professional Fees and Contingency	$134,413

PA 079055

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 123

				ASBESTOS					OTHER MATERIALS						
SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
01 -228001	Y	Y	80		80								20		100
01 -228002	Y	Y	75		75								25		100
01 -228003	Y	Y	85		85								15		100
02 -228004	Y	Y	75		75								25		100
02 -228005	Y	Y	80		80								20		100
02 -228006	Y	Y	80		80								20		100
03 -228007	Y	Y	3	3					47	15			35		100
03 -228008	Y	Y	8	5	3				42	10			40		100
03 -228009	Y	Y	9	2	7				31	10			50		100
0 -228010	N	N	0						10				20	70 SF	100
0 -228011	N	N	0									35	10	55 GM	100
0 -228012	N	Y	3	3									40	57 CAL	100
0 -228013	N	N	0						40	20		30	10		100
0 -228014	N	N	0										40	60 CAL	100
0 -228015	N	N	0										42	58 CAL	100
0 -228016	N	Y	2	2									40	58 CAL	100
0 -228017	N	N	0						40	35			25		100
0 -228018	N	N	0						25	25		30	20		100
0 -228019	N	Y	2	2						10			30	58 CAL	100
0 -228020	N	N	0						35	15		30	20		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 58

Building Number: 123
Building Name: AMERICAN AIRLINES CARGO BLDG.
JFK AIRPORT
Building Type: CARGO
Constructed: 1976
Inspected: 07/06/88
Inspector: J.S. LAWAN

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							AREA AVERAGE % ASB - 7%							
01	AMERICAN	Boiler Room												
		northwest corner of room	228007-3	mjp on non-suspect pipe cover	OMA		10 8 in. O.D.	DW	3	25	III	$648	$381	$1,029
			228008-3	mjp on non-suspect pipe cover	OMA				8	25	III			
			228009-3	mjp on non-suspect pipe cover	OMA				9	25	III			
									AREA TOTAL			$648	$381	$1,029
		This material is in good condition. The material has some minor water damage. The water damage has softened and cracked the outer wrapping.												
							AREA AVERAGE % ASB - 0%							
02	AMERICAN	Boiler Room-Boiler Doors												
		on all four doors-throughout	228010-0	gasket	OMZ		8 sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							AREA AVERAGE % ASB - 0%							
03	AMERICAN	Boiler Room-Inside Boilers												
		all four doors	228011-0	fire brick	OMZ		125 sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							AREA AVERAGE % ASB - 79%							
04	AMERICAN	Boiler Room-Boiler Exhaust												
		above boiler #1	228001-1	breecher/exhaust stack packing	OMB		300 sq.ft.		80	33	III	$17,121	$13,794	$30,915
			228002-1	breecher/exhaust stack packing	OMB				75	33	III			
			228003-1	breecher/exhaust stack packing	OMB				85	33	III			
		above boiler #2	228004-2	breecher/exhaust stack packing	OMB		300 sq.ft.		75	33	III	$17,121	$13,794	$30,915
			228005-2	breecher/exhaust stack packing	OMB				80	33	III			
			228006-2	breecher/exhaust stack packing	OMB				80	33	III			
									AREA TOTAL			$34,242	$27,588	$61,830
		The material is in very good condition. The material is enclosed in a canvas wrap, which is in excellent condition. This material does not have any contact or water damage.												

PA 079057

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 58

Building Number: 123
Building Name: AMERICAN AIRLINES CARGO BLDG.
JFK AIRPORT
Building Type: CARGO
Constructed: 1976
Inspected: 07/06/88
Inspector: J.S. LANAN

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		throughout	228017-0	acoustical tile	OMG	9000	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - AMERICAN		TOTAL			$77,566	$60,305	$137,871

PA 079058

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 58

Building Number: 123
Building Name: AMERICAN AIRLINES CARGO BLDG.
JFK AIRPORT
Building Type: CARGO
Constructed: 1976
Inspected: 07/06/88
Inspector: J.S. LANAN

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$11,804	$8,944	$20,748
The material is worn but in good condition. This is an area that is frequently accessed.														
							AREA AVERAGE % ASB -		0%					
17	NCA	Cargo Area Customs Office-Ceiling												
		throughout	228013-0	drop or lay-in panel	OMG	2600	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - NCA		TOTAL			$12,712	$9,632	$22,344
									BUILDING TOTAL			$90,278	$69,937	$160,215

PA 079059

BUILDING 124
NEW YORK TELEPHONE BUILDING

FINDINGS AND OBSERVATIONS

BUILDING 124 - NEW YORK TELEPHONE COMPANY BUILDING

Building 124 is a one-story, cinder block and concrete building. It was constructed in 1950 and encompasses 1,600 square feet. The occupant of the facility is AT&T. The building is heated by gas space heaters.

Asbestos-containing vinyl floor tiles were identified in this facility. The tiles were in good condition at the time of the inspection and have been classified as Priority Level IV. They should be integrated in an operations and maintenance program to maintain the presently good condition and detect any future damage until removal becomes feasible.

The materials sampled and determined nonasbestos-containing were wrapped cardboard pipe covering on the domestic hot water system. No other suspect materials were identified during the inspection.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079063

COST ESTIMATE

BUILDING 124 - NEW YORK TELEPHONE COMPANY BUILDING

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$5,347
10% Contingency	$535
Total Removal/Replacement with Contingency	$5,882

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 079064

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 124

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251765	Y	N	0							90			10		100
1 -251766	Y	N	0							90			10		100
1 -251767	Y	N	0							85			15		100
0 -251768	N	Y	7	7									18	75 CA	100

PA 079065

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 91

Building Number: 124
Building Name: N.Y. TELEPHONE #124
JFK AIRPORT
Building Type: MECHANICAL
Constructed: 1950
Inspected: 08/04/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							AREA AVERAGE % ASB -		7%					
01	N.Y. TELEPHONE	1st Floor-Office Area-Floor throughout	251768-0	vinyl floor tile	OMZ	670	sq.ft.		7	6	IV	$3,042	$2,305	$5,347
									AREA TOTAL			$3,042	$2,305	$5,347
		The material was found to be in good condition.												
							AREA AVERAGE % ASB -		0%					
02	N.Y. TELEPHONE	1st Floor-Office Area along south wall	251765-1	wrapped cardboard/paper pipe	OMA	125	ft. 4 in. O.D.	DHW	0					
			251766-1	wrapped cardboard/paper pipe	OMA				0					
			251767-1	wrapped cardboard/paper pipe	OMA				0					
									AREA TOTAL			$0	$0	$0
							TENANT - N.Y. TELEPHONE		TOTAL			$3,042	$2,305	$5,347
									BUILDING TOTAL			$3,042	$2,305	$5,347

BUILDING 125
ALLIED AVIATION BUILDING

PA 079069

FINDINGS AND OBSERVATIONS

BUILDING 125 - ALLIED AVIATION BUILDING

Building 125 is a one-story, cinder block and concrete building with a basement. It was constructed in 1950 and encompasses 19,404 square feet. The facility is comprised of a garage with a very small support office and a basement boiler room. The facility is operated by Allied Aviation. Ex. 4

Asbestos-containing materials identified in this facility were boiler insulation, tank insulation, and pipe coverings and associated mudded joint packings on the domestic hot water and low pressure steam systems. The boiler and tank insulation materials located within the boiler room are in poor condition with considerable water damage and have been classified as Priority Level I. Hall-Kimbrell recommends all asbestos-containing materials in the boiler room be abated using gross removal procedures.

Damaged pipe covering and associated mudded joint packings have been identified on the low pressure steam system in the garage. Due to the condition of the materials, they have been classified as Priority Level II. Hall-Kimbrell recommends the materials be temporarily repaired until abatement using gross removal procedures becomes feasible.

Corrugated pipe covering located in the restroom was in fair condition at the time of inspection and has been classified as Priority Level III.

The asbestos-containing materials present in this facility should be integrated in an operations and maintenance program to maintain the presently good condition and detect any future damage until total removal becomes feasible.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079070

COST ESTIMATE

BUILDING 125 - ALLIED AVIATION BUILDING

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$70,051
10% Contingency	$7,005
Total Removal/Replacement with Contingency	$77,056

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 11.9% of Total Construction Cost:

11.9% X $77,056 — $9,170

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 22 8-hour shifts:

22 X $490 — $10,780

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $77,056 — $1,541

Total Project Estimate Including Professional Fees and Contingency — $98,547

PA 079071

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 125

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -251769	Y	Y	70	70									30		100
1 -251770	Y	Y	80	80									20		100
1 -251771	Y	Y	80	80									20		100
2 -251772	Y	Y	25	25							60		15		100
2 -251773	Y	Y	15	15							70		15		100
2 -251774	Y	Y	15	15							75		10		100
3 -251775	Y	Y	60	20	40					10			30		100
3 -251776	Y	Y	70	30	40								30		100
3 -251777	Y	Y	70	30	40								30		100
4 -251778	Y	Y	80	80						5			15		100
4 -251779	Y	Y	80	80						10			10		100
4 -251780	Y	Y	70	70						25			5		100
5 -251781	Y	Y	65	65						30			5		100
5 -251782	Y	Y	70	70						25			5		100
5 -251783	Y	Y	65	65						30			5		100
6 -251784	Y	Y	30	30									70		100
6 -251785	Y	Y	30	30						10			60		100
6 -251786	Y	Y	30	30						5			65		100
7 -251787	Y	Y	60	60									40		100
7 -251788	Y	Y	60	60									40		100
7 -251789	Y	Y	55	55									45		100
8 -251790	Y	Y	60	60									40		100
8 -251791	Y	Y	65	65									35		100
8 -251792	Y	Y	62	60	2								38		100
9 -251793	Y	Y	65	65									35		100
9 -251794	Y	Y	60	60						5			35		100
9 -251795	Y	Y	55	55									45		100

HALL-KIMBRELL /IRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 92

Building Number: 125
Building Name: ALLIED AVIATION
JFK AIRPORT
Building Type: GARAGE
Constructed: 1950
Inspected: 08/05/88
Inspector: Doug Thomas

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	ALLIED	Basement-Boiler Room					AREA AVERAGE % ASB - 60%							
		on boiler	251769-1	boiler/tank insulation	OMB	475	sq.ft.		70	93	I	$22,714	$18,192	$40,906
			251770-1	boiler/tank insulation	OMB				80	93	I			
			251771-1	boiler/tank insulation	OMB				80	93	I			
		east wall holding tank	251772-2	boiler/tank insulation	OMB	275	sq.ft.		25	93	I	$13,150	$10,532	$23,682
			251773-2	boiler/tank insulation	OMB				15	93	I			
			251774-2	boiler/tank insulation	OMB				15	93	I			
		above boiler	251775-3	pipe covering	OMA	25	ft. 8 in. O.D.	LPS/R	60	93	I	$476	$340	$816
		above boiler	251775-3	pipe covering	OMA	20	ft. 4 in. O.D.	LPS/R	60	93	I	$240	$150	$390
			251776-3	pipe covering	OMA				70	93	I			
			251777-3	pipe covering	OMA				70	93	I			
		above water heater	251778-4	corrugated pipe covering	OMA	15	ft. 4 in. O.D.	DCW	80	93	I	$180	$113	$293
			251779-4	corrugated pipe covering	OMA				80	93	I			
			251780-4	corrugated pipe covering	OMA				70	93	I			
		above boiler	251790-8	mjp on pipe covering	OMA	12	8 in. O.D.	LPS/R	60	93	I	$777	$457	$1,234
			251791-8	mjp on pipe covering	OMA				65	93	I			
			251792-8	mjp on pipe covering	OMA				62	93	I			
		above holding tank	251793-9	mjp on corrugate pipe covering	OMA	6	4 in. O.D.	DCW	65	93	I	$227	$126	$353
			251794-9	mjp on corrugate pipe covering	OMA				60	93	I			
			251795-9	mjp on corrugate pipe covering	OMA				55	93	I			
											AREA TOTAL	$37,764	$29,910	$67,674

The materials are located on tank packing and pipe insulation throughout the boiler room. The area is very damp and considerable water damage can be seen. If removal is needed, it will be hampered by the folding cellar type door, which is the only access to the area.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	ALLIED	1st Floor-Garage					AREA AVERAGE % ASB - 44%							
		ceiling-southeast wall	251784-6	pipe covering	OMA	60	ft. 6 in. O.D.	LPS/R	30	52	II	$1,048	$655	$1,703
			251785-6	pipe covering	OMA				30	52	II			
			251786-6	pipe covering	OMA				30	52	II			
		ceiling-southeast wall	251787-7	mjp on pipe covering	OMA	3	6 in. O.D.	LPS/R	60	52	II	$156	$92	$248
			251788-7	mjp on pipe covering	OMA				60	52	II			
			251789-7	mjp on pipe covering	OMA				55	52	II			

PA 079073

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$1,204	$747	$1,951
The material, a suspect pipe insulation, is located on a disconnected steam line. A moderate amount of damage exists on the line and mudded packings. Removal of entire system would be recommended.														
							AREA AVERAGE % ASB - 67%							
03	ALLIED	1st Floor-Rest Room												
	above toilets		251781-5	corrugated pipe covering	OMA		15 ft. 6 in. O.D.	DCW	65	39	III	$262	$164	$426
			251782-5	corrugated pipe covering	OMA				70	39	III			
			251783-5	corrugated pipe covering	OMA				65	39	III			
									AREA TOTAL			$262	$164	$426
The pipe insulation is found in moderate condition. Removal, if necessary, will not be hampered in anyway.														
							TENANT - ALLIED		TOTAL			$39,230	$30,821	$70,051
									BUILDING TOTAL			$39,230	$30,821	$70,051

BUILDING 127
WEST CENTER LEAN-TO/HANGARS 3 AND 4

FINDINGS AND OBSERVATIONS

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

Building 127 is a three-story lean-to located between Hangars 3 and 4. It was constructed in 1950 of concrete and cinder blocks. Ex. 4 The three tenants that occupy the office space in this facility are Flying Tigers, United Airlines, and the Port Authority. The building employs a radiant hot water heating system. Ex. 4

Asbestos-containing materials identified in this facility were magnesia, cardboard, and wrapped cardboard pipe insulations and associated mudded joint packing on the elbows, tees, and valves; boiler and tank insulation; ceiling tiles; pipe insulation debris; vibration joint cloth; interior duct insulation; and roofing felt. Piping systems insulated with the asbestos-containing lagging and mudded joint packings were hot water supply and return, domestic cold and hot water, fuel oil, and roof drain lines.

Asbestos-containing materials that have become friable as a result of contact and/or water damage, and/or materials that are easily accessible in high traffic areas are classified as Priority Level I. Priority Level I materials are present in the following areas. The first floor mechanical room contains a heat converter which is insulated with damaged packing material that should be repaired or replaced. The boiler and two hot water storage tanks located in this room are not as damaged and do not require as much repair. The lagging materials located on the various piping systems have sustained both contact and water damage, releasing debris which has fallen to the floor. Due to the extensive amounts of materials and the poor condition, Hall-Kimbrell recommends the room undergo gross abatement as soon as funding becomes available to completely remove all asbestos-containing materials and related debris. The third floor air handler room contains badly damaged duct insulation, pipe insulation, and mudded joint packing with associated debris throughout the area. Field notes taken during the inspection indicate the damage is too severe to be repaired. In the event of removal, Hall-Kimbrell recommends this room undergo gross abatement to ensure the complete removal of all asbestos-containing materials and associated debris.

Priority Level II materials are present in the third floor boiler room and along the exterior east wall of the lean-to. Localized contact and water damaged areas of pipe and tank insulation were observed there. The damaged areas should be repaired as needed using a bridging encapsulant where applicable. Any associated debris should be properly cleaned using HEPA vacuum procedures.

Priority Level III and IV materials include the vinyl floor tiles in the Flying Tigers first floor office and parts room; pipe insulation on the first floor of the Flying Tigers tenant area; pipe insulation and vibration joint cloth in the Port Authority third floor fan room; and pipe insulation in the United Airlines first floor tenant space, the roof area, and the second floor restrooms in the Flying Tigers tenant space.

All asbestos-containing materials identified in this facility should be included in an operations and maintenance program to periodically monitor the material condition and detect any future damage until complete removal of the materials is feasible. The materials sampled and determined nonasbestos-containing were boiler gasket, pipe insulation on the roof drain system, and ceiling tiles.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079079

COST ESTIMATE

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$98,693
10% Contingency	$9,869
Total Removal/Replacement with Contingency	$108,562

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 10.6% of Total Construction Cost:

10.6% X $108,562 — $11,508

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 28 8-hour shifts:

28 X $490 — $13,720

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $108,562 — $2,171

Total Project Estimate Including Professional Fees and Contingency — $135,961

PA 079080

COST ESTIMATE

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

Removal of all asbestos-containing materials in Priority Level II and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$439,736
10% Contingency	$43,974
Total Removal/Replacement with Contingency	$483,710

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 7.3% of Total Construction Cost:

7.3% X $483,710 — $35,311

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 92 8-hour shifts:

92 X $490 — $45,080

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $483,710 — $9,674

Total Project Estimate Including Professional Fees and Contingency — $573,775

PA 079081

COST ESTIMATE

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

Removal of all asbestos-containing materials in Priority Level III and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$273,925
10% Contingency	$27,393
Total Removal/Replacement with Contingency	$301,318

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.

Estimated at 8.0% of Total Construction Cost:

8.0% X $301,318 — $24,105

On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)

Estimated at 61 8-hour shifts:

61 X $490 — $29,890

Reimbursable out-of-pocket and travel-related expenses

Estimated at 2.0% of Total Construction Cost:

2.0% X $301,318 — $6,026

Total Project Estimate Including Professional Fees and Contingency — $361,339

PA 079082

COST ESTIMATE

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

Removal of all asbestos-containing materials in Priority Level IV and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$3,292
10% Contingency	$329
Total Removal/Replacement with Contingency	$3,621

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 079083

PHOTOGRAPH LOG

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

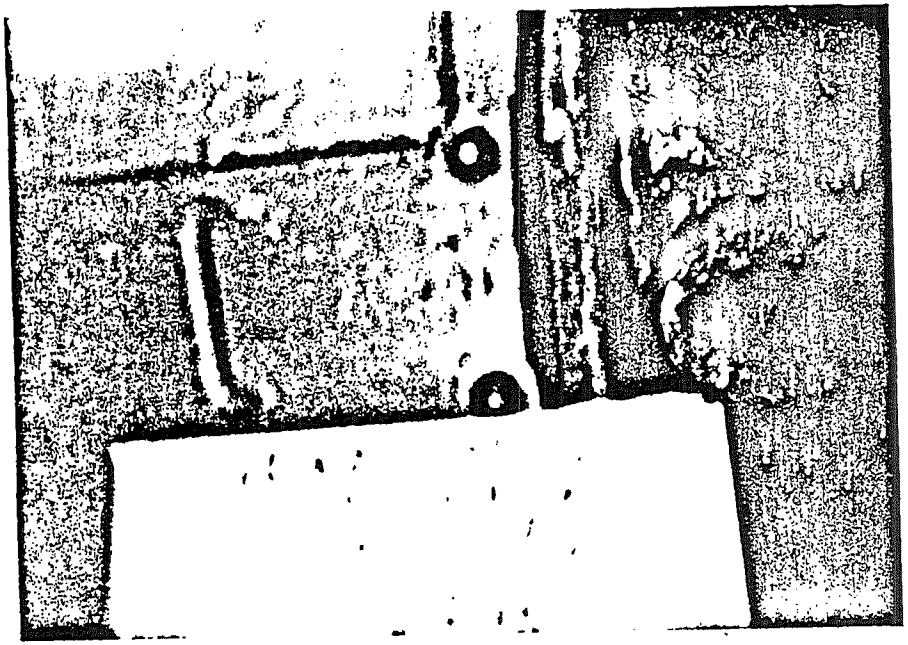
Picture #	Description
1	ı, debris.
2	., air cell-type pipe insulation.
3	Boiler 1.
4	corrugated duct insulation.

Ex. 4

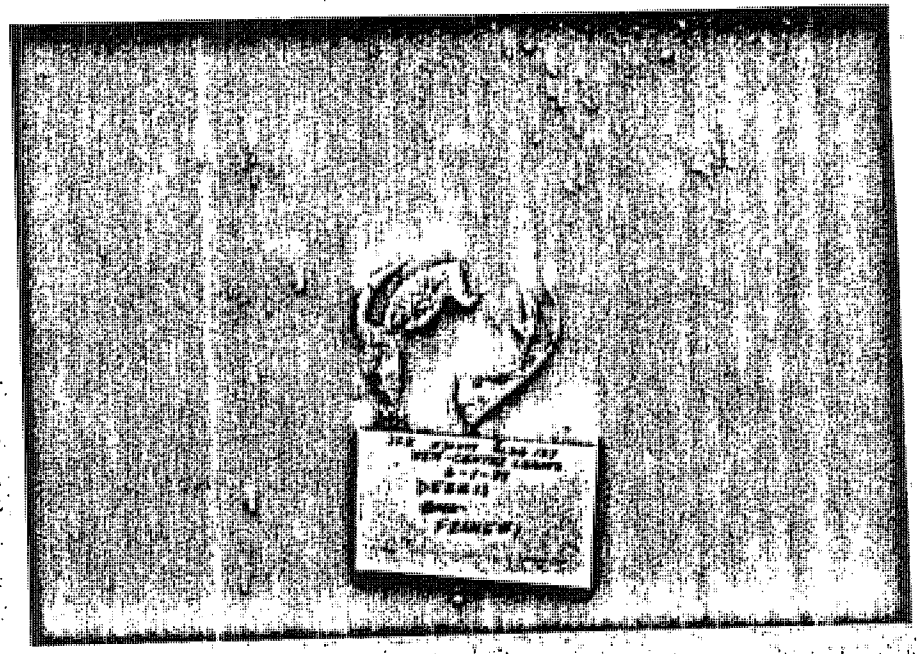
PA 079084

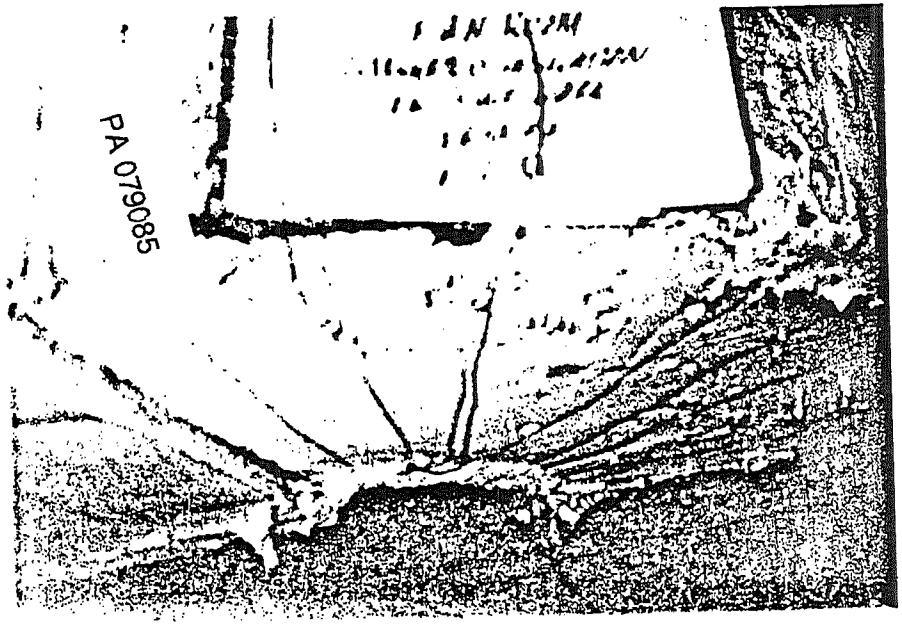
C-LINE #52584
35MM PRINTS

127

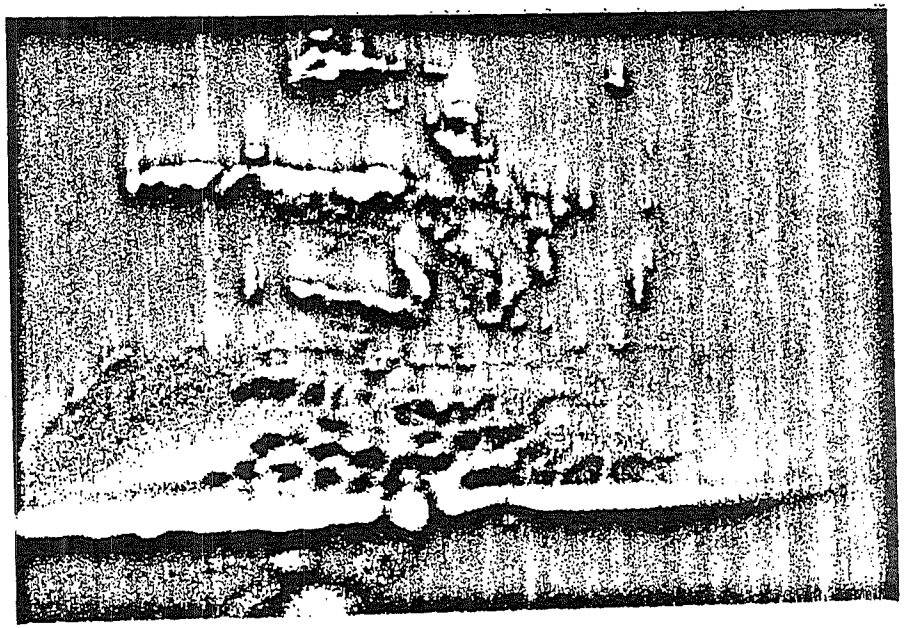


1
3





2
4



PA 079085

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: W70277 JFK INTERNATIONAL AIRPORT

BUILDING: 127

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
30 -216182	Y	N	0						40				40	20 GM	100
30 -216183	Y	N	0						45	30			25		100
30 -216184	Y	N	0						45	10			30	15 GM	100
0 -216185	N	N	0						20	50		20	10		100
31 -216186	Y	Y	50	50						20			10	20 COT	100
31 -216187	Y	Y	30	30						30			15	25 COT	100
31 -216188	Y	Y	30	30						25			20	25 COT	100
32 -216189	Y	Y	80	80						10			10		100
32 -216190	Y	Y	40	40									15	45 COT	100
32 -216191	Y	Y	75	75									15	10 GM	100
1 -216213	Y	Y	60	60									40		100
1 -216214	Y	Y	65	65									35		100
1 -216215	Y	Y	60	60									40		100
2 -216216	Y	Y	70	70									30		100
2 -216217	Y	Y	70	70									30		100
2 -216218	Y	Y	75	75									25		100
3 -216219	Y	Y	70	70	0								30		100
3 -216220	Y	Y	75	75									25		100
3 -216221	Y	Y	80	80									20		100
4 -216222	Y	Y	70	70									30		100
4 -216223	Y	Y	65	65									35		100
4 -216224	Y	Y	75	75									25		100
5 -216225	Y	Y	7	7						90			3		100
5 -216226	Y	Y	6	6						90			4		100
5 -216227	Y	Y	10	10						85			5		100
6 -216228	Y	Y	75	75									25		100
6 -216229	Y	Y	75	75									25		100
6 -216230	Y	Y	85	85									15		100
7 -216231	N	Y	60		60								40		100
7 -216232	N	Y	70		70								30		100
7 -216233	N	Y	50	50									50		100
8 -216234	Y	Y	75	75									25		100
8 -216235	Y	Y	80	80									20		100
8 -216236	Y	Y	70	70									30		100
9 -216237	Y	N	0							95			5		100
9 -216238	Y	N	0							98			2		100
9 -216239	Y	N	0							96			4		100
10 -216240	Y	Y	55	55									45		100
10 -216241	Y	Y	50	50									50		100
10 -216242	Y	Y	60	60									40		100
11 -216243	Y	N	0							96			4		100
11 -216244	Y	N	0							95			5		100
11 -216245	Y	N	0							92			8		100
12 -216246	Y	Y	40	40						50			10		100
12 -216247	Y	Y	50	50						40			10		100
12 -216248	Y	Y	45	45						45			10		100
13 -216249	Y	Y	60	60									40		100
13 -216250	Y	Y	50	50									50		100
13 -216251	Y	Y	50	50									50		100
0 -216252	N	Y	6	6						90			4		100
0 -216253	N	Y	6	6						84			10		100
0 -216254	N	Y	70	70									30		100
14 -216255	N	Y	10	10									90		100
14 -216256	Y	Y	40		40								60		100
14 -216257	Y	Y	30	20	10								70		100
15 -216258	Y	Y	15	15					65				20		100
15 -216259	Y	Y	20	20					60				20		100
15 -216260	Y	Y	20	20					60				20		100
16 -216261	Y	Y	15	15					70				15		100
16 -216262	Y	Y	25	25					60				15		100
16 -216263	Y	Y	20	20					60				20		100
17 -216264	Y	Y	10	10					50				40		100
17 -216265	Y	Y	10	10					60				30		100
17 -216266	Y	Y	15	15					55				30		100
18 -216267	Y	Y	70	70									30		100
18 -216268	Y	Y	75	75									25		100
18 -216269	Y	Y	65	65									35		100

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 127

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
41 -216437	Y	N	0							80				20 TAR	100
42 -216438	Y	N	0							80				20 TAR	100
42 -216439	Y	N	0							80				20 TAR	100
42 -216440	Y	N	0							80				20 TAR	100
43 -216441	Y	N	0										10	60 PL SYN 30	100
43 -216442	Y	N	0										10	60 PL SYN 30	100
43 -216443	Y	N	0										60	10 SYN GM 30	100
0 -216444	N	Y	30	30					40				30		100
0 -216445	N	Y	10	10					30	20			40		100
0 -216446	N	Y	6	6									14	70 CAL GM 10	100
0 -216447	N	Y	5	5					70				25		100

PA 079087

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127 Page 1
Building Name: WEST CENTER LEAN-TO HANGARS 3-4
JFK AIRPORT
Building Type: OFFICE
Constructed: 1950
Inspected: 06/01/88
Inspector: J. LANAN

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	FLYING TIGERS	1st Floor-Floors					AREA AVERAGE % ASB - 6%							
		office & parts room	216446-0	vinyl floor tile	OMZ	3500	sq.ft.		6	29	III	$15,890	$12,040	$27,930
									AREA TOTAL			$15,890	$12,040	$27,930

The middle section of the first floor has vinyl floor tile. The tile appears to be old and is well worn. The material has deteriorated to the point where it can be easily broken and removed.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
02	FLYING TIGERS	1st Floor-Mechanical Room					AREA AVERAGE % ASB - 70%							
		hot water tank-along north wall	216213-1	boiler/tank insulation	OMB	430	sq.ft.		60	61	I	$20,563	$16,469	$37,032
			216214-1	boiler/tank insulation	OMB				65	61	I			
			216215-1	boiler/tank insulation	OMB				60	61	I			
		hot water storage tanks-southwest corner	216216-2	boiler/tank insulation	OMB	145	sq.ft.		70	61	I	$6,934	$5,553	$12,487
			216217-2	boiler/tank insulation	OMB				70	61	I			
			216218-2	boiler/tank insulation	OMB				75	61	I			
		heat convertors in center of room	216219-3	boiler/tank insulation	OMB	70	sq.ft.		70	61	I	$3,347	$2,681	$6,028
			216220-3	boiler/tank insulation	OMB				75	61	I			
			216221-3	boiler/tank insulation	OMB				80	61	I			
		boiler in northwest corner	216222-4	boiler/tank insulation	OMB	30	sq.ft.		70	61	I	$1,435	$1,149	$2,584
			216223-4	boiler/tank insulation	OMB				65	61	I			
			216224-4	boiler/tank insulation	OMB				75	61	I			
									AREA TOTAL			$32,279	$25,852	$58,131

The tanks in this room are in good condition. The northern most heat convertor has one end that is beginning to deteriorate. Immediate encapsulation on this heat convertor is recommended.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	FLYING TIGERS	1st Floor-Mechanical Room					AREA AVERAGE % ASB - 44%							
		on valve in southeast corner	216252-0	tar paper	OMZ	1	12 in. O.D.	DW	6	62	I	$102	$64	$166
		throughout	216240-10	mjp on wrapped cardboard/paper	OMA	11	4 in. O.D.	DW	55	62	I	$416	$231	$647
		throughout	216240-10	mjp on wrapped cardboard/paper	OMA	10	8 in. O.D.	DW	55	62	I	$648	$381	$1,029
			216241-10	mjp on wrapped cardboard/paper	OMA				50	62	I			
			216242-10	mjp on wrapped cardboard/paper	OMA				60	62	I			
		along north wall	216243-11	wrapped cardboard/paper pipe	OMA	20	ft. 8 in. O.D.	DR	0					
			216244-11	wrapped cardboard/paper pipe	OMA				0					

PA 079088

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127
Building Name: WEST CENTER LEAN-TO HANGARS 3-4
JFK AIRPORT
Building Type: OFFICE
Constructed: 1950
Inspected: 06/01/88
Inspector: J. LANAN

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							AREA AVERAGE % ASB - 46%							
05	FLYING TIGERS	1st Floor												
		throughout-at ceiling	216240-10	mjp on wrapped cardboard/paper	OMA	50	4 in. O.D.	DW	55	27	III	$1,890	$1,050	$2,940
			216241-10	mjp on wrapped cardboard/paper	OMA				50	27	III			
			216242-10	mjp on wrapped cardboard/paper	OMA				60	27	III			
		near west wall-throughout	216243-11	wrapped cardboard/paper pipe	OMA	60	ft. 8 in. O.D.	DR	0					
			216244-11	wrapped cardboard/paper pipe	OMA				0					
			216245-11	wrapped cardboard/paper pipe	OMA				0					
		north end-at ceiling	216246-12	corrugated pipe covering	OMA	40	ft. 4 in. O.D.	DW	40	27	III	$480	$300	$780
			216247-12	corrugated pipe covering	OMA				50	27	III			
			216248-12	corrugated pipe covering	OMA				45	27	III			
		throughout-at ceiling	216231-7	pipe covering	OMA	50	ft. 4 in. O.D.	DW	60	27	III	$600	$376	$976
		throughout-at ceiling	216231-7	pipe covering	OMA	350	ft. 6 in. O.D.	HWS/R	60	27	III	$6,111	$3,822	$9,933
			216232-7	pipe covering	OMA				70	27	III			
			216233-7	pipe covering	OMA				50	27	III			
		throughout-at ceiling	216234-8	mjp on pipe covering	OMA	15	4 in. O.D.	HWS/R	75	27	III	$567	$315	$882
		throughout-at ceiling	216234-8	mjp on pipe covering	OMA	20	6 in. O.D.	HWS/R	75	27	III	$1,041	$611	$1,652
			216235-8	mjp on pipe covering	OMA				80	27	III			
			216236-8	mjp on pipe covering	OMA				70	27	III			
		throughout-at ceiling	216237-9	wrapped cardboard/paper pipe	OMA	1000	ft. 4 in. O.D.	DW	0					
			216238-9	mjp on wrapped cardboard/paper	OMA				0					
			216239-9	mjp on wrapped cardboard/paper	OMA				0					
									AREA TOTAL			$10,689	$6,474	$17,163

This material is in very good condition. The canvas wrap on the piping is very thick and well painted so that none of the insulation is exposed.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							AREA AVERAGE % ASB - 6%							
06	FLYING TIGERS	2nd Floor-Floors												
		throughout entire floor	216446-0	vinyl floor tile	OMZ	16000	sq.ft.		6	27	III	$72,640	$55,040	$127,680
									AREA TOTAL			$72,640	$55,040	$127,680

The whole 2nd floor, except the washrooms, has 9"x 9" vinyl floor tile. The adhesive backing has dried out, allowing many of the tiles to come loose from the substrate.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							AREA AVERAGE % ASB - 5%							
07	FLYING TIGERS	2nd Floor-Ceiling												
		south end	216447-0	drop or lay-in panel	OMG	6000	sq.ft.		5	25	III	$45,360	$16,500	$61,860

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127
Building Name: WEST CENTER LEAN-TO HANGARS 3-4
JFK AIRPORT
Building Type: OFFICE
Constructed: 1950
Inspected: 06/01/88
Inspector: J. LANAN

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
							AREA AVERAGE % ASB - 31%							
09	PORT AUTHORITY	3rd Floor-Boiler Room												
		boiler #1-northeast corner	216255-14	boiler/tank insulation	OMB	750	sq.ft.		10	58	II	$35,865	$28,725	$64,590
			216256-14	boiler/tank insulation	OMB				40	58	II			
			216257-14	boiler/tank insulation	OMB				30	58	II			
		boiler #2-southeast corner	216258-15	boiler/tank insulation	OMB	750	sq.ft.		15	58	II	$35,865	$28,725	$64,590
			216259-15	boiler/tank insulation	OMB				20	58	II			
			216260-15	boiler/tank insulation	OMB				20	58	II			
		boiler #3-southwest corner	216261-16	boiler/tank insulation	OMB	750	sq.ft.		15	58	II	$35,865	$28,725	$64,590
			216262-16	boiler/tank insulation	OMB				25	58	II			
			216263-16	boiler/tank insulation	OMB				20	58	II			
		boiler #4-northwest corner	216264-17	boiler/tank insulation	OMB	750	sq.ft.		10	58	II	$35,865	$28,725	$64,590
			216265-17	boiler/tank insulation	OMB				10	58	II			
			216266-17	boiler/tank insulation	OMB				15	58	II			
		hot water tank-northwest corner	216267-18	boiler/tank insulation	OMB	275	sq.ft.		70	58	II	$13,150	$10,532	$23,682
			216268-18	boiler/tank insulation	OMB				75	58	II			
			216269-18	boiler/tank insulation	OMB				65	58	II			
		large heat convertor near ceiling-N side	216270-19	boiler/tank insulation	OMB	80	sq.ft.		40	58	II	$3,826	$3,064	$6,890
			216271-19	boiler/tank insulation	OMB				30	58	II			
			216272-19	boiler/tank insulation	OMB				40	58	II			
		small heat convertor near ceiling-N side	216273-20	boiler/tank insulation	OMB	25	sq.ft.		15	58	II	$1,195	$957	$2,152
			216274-20	boiler/tank insulation	OMB				10	58	II			
			216275-20	boiler/tank insulation	OMB				15	58	II			
		boiler #1-stack	216300-29	breecher/exhaust stack packing	OMB	25	sq.ft.		90	58	II	$1,427	$1,149	$2,576
			216401-29	breecher/exhaust stack packing	OMB				40	58	II			
			216402-29	breecher/exhaust stack packing	OMB				40	58	II			
		boiler #2-stack	216403-33	breecher/exhaust stack packing	OMB	150	sq.ft.		30	58	II	$8,560	$6,897	$15,457
			216404-33	breecher/exhaust stack packing	OMB				30	58	II			
			216405-33	breecher/exhaust stack packing	OMB				30	58	II			
		boiler #3-stack	216406-34	breecher/exhaust stack packing	OMB	150	sq.ft.		40	58	II	$8,560	$6,897	$15,457
			216407-34	breecher/exhaust stack packing	OMB				20	58	II			
			216408-34	breecher/exhaust stack packing	OMB				30	58	II			
		boiler #4-stack	216409-35	breecher/exhaust stack packing	OMB	150	sq.ft.		30	58	II	$8,560	$6,897	$15,457
			216410-35	breecher/exhaust stack packing	OMB				30	58	II			
			216411-35	breecher/exhaust stack packing	OMB				30	58	II			

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127
Building Name: WEST CENTER LEAN-TO HANGARS 3-4
JFK AIRPORT
Building Type: OFFICE
Constructed: 1950
Inspected: 06/01/88
Inspector: J. LANAN

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			216299-28	mjp on wrapped cardboard/paper	OMA				75	41	II			
		along east & west walls	216412-36	wrapped cardboard/paper pipe	OMA		40 ft. 8 in. O.D.	DR	60	41	II	$762	$544	$1,306
			216413-36	wrapped cardboard/paper pipe	OMA				60	41	II			
			216414-36	wrapped cardboard/paper pipe	OMA				60	41	II			
									AREA TOTAL			$55,999	$39,247	$95,246

The material is in very good condition. The thick canvas wrap is still in place on most of the material and this has kept the insulation in good condition. Some of the gas line elbows have some minor water damage.

AREA AVERAGE % ASB - 5%

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
11	PORT AUTHORITY	3rd Floor-Boiler Room												
		boiler door	216415-0	gasket	OMZ		6 sq.ft.		0					
		boiler door	216416-0	gasket	OMZ		18 sq.ft.		0					
		boiler door	216417-0	gasket	OMZ		2 sq.ft.		0					
		roof outside-on fan unit	216421-0	vibration joint cloth	OMZ		4 sq.ft.		20	27	III	$72	$39	$111
									AREA TOTAL			$72	$39	$111

These materials were in good condition until disturbed. The boiler doors had been opened on two boilers, exposing and damaging the gaskets.

AREA AVERAGE % ASB - 0%

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
12	PORT AUTHORITY	3rd Floor-Boiler Room												
		bucket in southwest corner	216418-0	debris	OMF		3 sq.ft.		0					
		on floor in southwest corner	216419-0	debris	OMF		4 sq.ft.		0					
		box along east wall	216420-0	debris	OMF		4 sq.ft.		0					
									AREA TOTAL			$0	$0	$0

AREA AVERAGE % ASB - 22%

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
13	PORT AUTHORITY	3rd Floor-Fan Room												
		along ceiling in center of room	216429-39	pipe covering	OMA		200 ft. 4 in. O.D.	HWS/R	20	28	III	$2,400	$1,502	$3,902
			216430-39	pipe covering	OMA				20	28	III			
			216431-39	pipe covering	OMA				20	28	III			
		throughout center of room	216432-40	mjp on pipe covering	OMA		75 4 in. O.D.	HWS/R	40	28	III	$2,835	$1,575	$4,410
			216433-40	mjp on pipe covering	OMA				50	28	III			
			216434-40	mjp on pipe covering	OMA				50	28	III			
		on north wall	216438-42	wrapped cardboard/paper pipe	OMA		40 ft. 8 in. O.D.	DR	0					

PA 079091

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127
Building Name: WEST CENTER LEAN-TO HANGARS 3-4
JFK AIRPORT
Building Type: OFFICE
Constructed: 1950
Inspected: 06/01/88
Inspector: J. LAHAN

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
The pipe insulation is in very bad condition. The material is coming loose from the pipe and hanging in midair.										AREA TOTAL		$360	$225	$585
							TENANT - PORT AUTHORITY			TOTAL		$262,919	$203,842	$466,761

PA 079092

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
			216184-30	mjp on non-suspect pipe cover	OMA				0					
		stock room-across ceiling	216186-31	pipe covering	OMA	68	ft. 6 in. O.D.	FO	50	23	III	$1,187	$743	$1,930
			216187-31	pipe covering	OMA				30	23	III			
			216188-31	pipe covering	OMA				30	23	III			
		stock room-across ceiling	216189-32	mjp on pipe covering	OMA	4	6 in. O.D.	FO	80	23	III	$208	$122	$330
			216190-32	mjp on pipe covering	OMA				40	23	III			
			216191-32	mjp on pipe covering	OMA				75	23	III			
		room south of restroom	216231-7	pipe covering	OMA	12	ft. 4 in. O.D.	HWS/R	60	23	III	$144	$90	$234
		stock room-across ceiling	216231-7	pipe covering	OMA	83	ft. 4 in. O.D.	HWS/R	60	23	III	$996	$623	$1,619
		room south of restroom	216231-7	pipe covering	OMA	30	ft. 6 in. O.D.	HWS/R	60	23	III	$524	$328	$852
		stock room-across ceiling	216231-7	pipe covering	OMA	361	ft. 6 in. O.D.	HWS/R	60	23	III	$6,303	$3,942	$10,245
			216232-7	pipe covering	OMA				70	23	III			
			216233-7	pipe covering	OMA				50	23	III			
		room south of restroom	216234-8	mjp on pipe covering	OMA	3	4 in. O.D.	HWS/R	75	23	III	$113	$63	$176
		stock room-across ceiling	216234-8	mjp on pipe covering	OMA	4	4 in. O.D.	HWS/R	75	23	III	$151	$84	$235
		stock room-across ceiling	216234-8	mjp on pipe covering	OMA	14	6 in. O.D.	HWS/R	75	23	III	$729	$428	$1,157
			216235-8	mjp on pipe covering	OMA				80	23	III			
			216236-8	mjp on pipe covering	OMA				70	23	III			
		stock room-across ceiling	216237-9	wrapped cardboard/paper pipe	OMA	232	ft. 4 in. O.D.	DW	0					
		restroom	216237-9	wrapped cardboard/paper pipe	OMA	5	ft. 4 in. O.D.	DW	0					
			216238-9	wrapped cardboard/paper pipe	OMA				0					
			216239-9	wrapped cardboard/paper pipe	OMA				0					
		The material is in fair to good condition overall and is encapsulated in a good coat of paint. The material is well maintained. The area is frequently used by maintenance personnel.							AREA TOTAL			$13,512	$8,327	$21,839
19	UNITED AIR	1st Floor-Above Drop Ceiling							AREA AVERAGE % ASB - 49%					
		room north of restroom	216246-12	corrugated pipe covering	OMA	6	ft. 4 in. O.D.	DW	40	14	IV	$72	$45	$117
			216247-12	corrugated pipe covering	OMA				50	14	IV			
			216248-12	corrugated pipe covering	OMA				45	14	IV			
		room north of restroom	216249-13	mjp on corrugate pipe covering	OMA	4	4 in. O.D.	DW	60	14	IV	$151	$84	$235
			216250-13	mjp on corrugate pipe covering	OMA				50	14	IV			
			216251-13	mjp on corrugate pipe covering	OMA				50	14	IV			

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127 Page 13
Building Name: WEST CENTER LEAN-TO HANGARS 3-4
JFK AIRPORT
Building Type: OFFICE
Constructed: 1950
Inspected: 06/01/88
Inspector: J. LANAN

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
									AREA TOTAL			$0	$0	$0
22	UNITED AIR	Roof Area					AREA AVERAGE % ASB - 20%							
		throughout roof	216422-0	roofing tar paper/roofing felt OMZ		16000	sq.ft.		0					
		The building has a metal roof and the metal is covered with a rubber material. This material is in good condition and is securely attached to the substrate.							AREA TOTAL			$0	$0	$0
							TENANT - UNITED AIR		TOTAL			$21,704	$13,288	$34,992
									BUILDING TOTAL			$474,776	$340,870	$815,646

PA 079094

BUILDING 128
EAST CENTER LEAN-TO/HANGARS 4 AND 5

FINDINGS AND OBSERVATIONS

BUILDING 128 - EAST CENTER LEAN-TO, HANGARS 4 AND 5

The East Center Lean-To, Building 128, is a two-story, cinder block and concrete structure which is situated between Hangars 4 and 5. This building was constructed in 1950 and has not been renovated.

Ex. 4

Asbestos-containing materials identified were vibration joint cloth; wrapped cardboard pipe insulation; mudded joint packing on elbows, tees, and valves; magnesia pipe insulation; and corrugated cardboard pipe insulation. The mechanical insulation materials can be found on heating water and domestic water lines throughout the first and second floors, on heat exchangers and hot water and domestic water lines throughout the first and second floors, and on heat exchangers and hot water storage tanks in the first floor pump room. Overall, the materials in this building are in good condition and have been well maintained. However, there is one area which contains Priority Level I materials. The first floor pump room has heavily damaged domestic water lines which need attention and should be repaired as necessary. All asbestos-containing material identified in this facility should be incorporated in an operations and maintenance program until removal becomes feasible.

Materials that were determined through laboratory analysis not to contain asbestos were acoustical ceiling tiles and lay-in ceiling panels.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079102

COST ESTIMATE

BUILDING 128 - EAST CENTER LEAN-TO/HANGARS 4 AND 5

Removal of all asbestos-containing materials in all Priority Levels and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$114,560
10% Contingency	$11,456
Total Removal/Replacement with Contingency	$126,016

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc. Estimated at 10.3% of Total Construction Cost: 10.3% X $126,016	$12,980
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician) Estimated at 32 8-hour shifts: 32 X $490	$15,680
Reimbursable out-of-pocket and travel-related expenses Estimated at 2.0% of Total Construction Cost: 2.0% X $126,016	$2,520
Total Project Estimate Including Professional Fees and Contingency	$157,196

PA 079103

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 128

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -216195	Y	Y	4	4						46			20	30 COT	100
1 -216196	Y	Y	4	4						31			15	50 COT	100
1 -216197	Y	Y	3	3						42			25	30 COT	100
2 -216198	Y	Y	75	75									15	10 GM	100
2 -216199	Y	Y	80	80									10	10 GM	100
2 -216200	Y	Y	75	75									15	10 GM	100
3 -216343	Y	Y	6	6						84			10		100
3 -216344	Y	Y	10	10						80			10		100
3 -216345	Y	Y	6	6						80			14		100
4 -216346	N	Y	45	45									45	10 PT	100
4 -216347	Y	Y	30	30					40				30		100
4 -216348	Y	Y	30	30					40				30		100
5 -216349	Y	Y	50	50									30	20 COT	100
5 -216350	Y	Y	50	50									30	20 COT	100
5 -216351	Y	Y	45	45									35	20 COT	100
6 -216352	Y	Y	40	40									50	10 COT	100
6 -216353	N	Y	68	68									32		100
6 -216354	Y	Y	60	60									30	10 COT	100
7 -216355	Y	Y	75	55	20								25		100
7 -216356	Y	Y	75	50	25								25		100
7 -216357	Y	Y	75	75									25		100
8 -216358	Y	Y	60	50	10								40		100
8 -216359	Y	Y	60	50	10								40		100
8 -216360	Y	Y	60	50	10								40		100
0 -216361	N	Y	10	10									40	10 GM CAL .40	100
0 -216362	N	N	0							90			10		100
0 -216363	N	N	0						80				5	15 PT	100
9 -216364	Y	Y	60	60									20	20 COT	100
9 -216365	Y	Y	50	50									30	20 COT	100
9 -216366	N	Y	70	70									30		100
10 -216367	Y	Y	50	50									35	15 COT	100
10 -216368	Y	Y	55	55									30	15 COT	100
10 -216369	N	Y	55	55									30	15 COT	100
11 -216370	Y	Y	70	70						20			10		100
11 -216371	Y	Y	65	65						25			10		100
11 -216372	Y	Y	68	68						22			10		100
12 -216374	Y	Y	15	15						75			10		100
12 -216375	Y	Y	25	25						65			10		100
12 -216376	Y	Y	20	20						70			10		100
13 -216377	Y	Y	80	15	65								20		100
13 -216378	Y	Y	70	70						10			20		100
13 -216379	Y	Y	65	65						10			25		100
14 -216380	N	Y	75	75									25		100
14 -216381	Y	Y	60	60									30	10 COT	100
14 -216382	Y	Y	62	62									28	10 COT	100
15 -216383	Y	Y	60	60						30			10		100
15 -216384	Y	Y	70	70						20			10		100
15 -216385	Y	Y	60	60						30			10		100
0 -329040	N	Y	5	5						15			80		100

PA 079104

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 35

Building Number: 128 Page 1
Building Name: EAST CENTER LEAN-TO HANGARS 3,4
JFK AIRPORT
Building Type: WAREHOUSE
Constructed: 1950
Inspected: 06/03/88
Inspector: D.L. STEPHENS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	UNITED AIR	Exterior					AREA AVERAGE % ASB - 29%							
		east side of lean-to on roof	329040-0	vibration joint cloth	OMZ	3	sq.ft.		5	24	III	$54	$29	$83
		east side of lean-to on roof	216343-3	wrapped cardboard/paper pipe	OMA	23	ft. 4 in. O.D.	DW	6	24	III	$276	$173	$449
			216344-3	wrapped cardboard/paper pipe	OMA				10	24	III			
			216345-3	wrapped cardboard/paper pipe	OMA				6	24	III			
		east side of lean-to	216346-4	mjp on wrapped cardboard/paper	OMA	6	4 in. O.D.	DW	45	24	III	$227	$126	$353
			216347-4	mjp on wrapped cardboard/paper	OMA				30	24	III			
			216348-4	mjp on wrapped cardboard/paper	OMA				30	24	III			
		west side of lean-to	216349-5	pipe covering	OMA	40	ft. 6 in. O.D.	HWS/R	50	24	III	$698	$437	$1,135
		west side of lean-to	216349-5	pipe covering	OMA	6	ft. 4 in. O.D.	HWS/R	50	24	III	$72	$45	$117
		east side of lean-to	216349-5	pipe covering	OMA	88	ft. 6 in. O.D.	HWS/R	50	24	III	$1,536	$961	$2,497
			216350-5	pipe covering	OMA				50	24	III			
			216351-5	pipe covering	OMA				45	24	III			
		east side of lean-to	216352-6	mjp on pipe covering	OMA	9	6 in. O.D.	HWS/R	40	24	III	$468	$275	$743
		west side of lean-to	216352-6	mjp on pipe covering	OMA	2	4 in. O.D.	HWS/R	40	24	III	$76	$42	$118
		west side of lean-to	216352-6	mjp on pipe covering	OMA	6	6 in. O.D.	HWS/R	40	24	III	$312	$183	$495
			216353-6	mjp on pipe covering	OMA				68	24	III			
			216354-6	mjp on pipe covering	OMA				60	24	III			
		The material is in fair condition with isolated areas of contact damage, especially on the east side, which opens up to Air Express International Hangar #5. The area is accessed frequently.							AREA TOTAL			$3,719	$2,271	$5,990
02	UNITED AIR	1st Floor					AREA AVERAGE % ASB - 38%							
		mechanic's tool room-back room	216195-1	wrapped cardboard/paper pipe	OMA	15	ft. 10 in. O.D.	DR	4	23	III	$381	$282	$663
		maintenance office	216195-1	wrapped cardboard/paper pipe	OMA	18	ft. 10 in. O.D.	DR	4	23	III	$457	$338	$795
		mechanic's locker room	216195-1	wrapped cardboard/paper pipe	OMA	26	ft. 4 in. O.D.	DR	4	23	III	$312	$195	$507
		rest room janitor's closet	216195-1	wrapped cardboard/paper pipe	OMA	16	ft. 10 in. O.D.	DR	4	23	III	$406	$301	$707
		mechanic's tool room	216195-1	wrapped cardboard/paper pipe	OMA	15	ft. 10 in. O.D.	DR	4	23	III	$381	$282	$663
			216196-1	wrapped cardboard/paper pipe	OMA				4	23	III			
			216197-1	wrapped cardboard/paper pipe	OMA				3	23	III			
		mechanic's tool room	216198-2	mjp on wrapped cardboard/paper	OMA	2	10 in. O.D.	DR	75	23	III	$168	$105	$273
		mechanic's tool room-back room	216198-2	mjp on wrapped cardboard/paper	OMA	2	10 in. O.D.	DR	75	23	III	$168	$105	$273

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 35

Building Number: 128
Building Name: EAST CENTER LEAN-TO HANGARS 3,4
JFK AIRPORT
Building Type: WAREHOUSE
Constructed: 1950
Inspected: 06/03/88
Inspector: D.L. STEPHENS

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
03	UNITED AIR	1st Floor-Pump Room					AREA AVERAGE % ASB - 30%							
		throughout	216343-3	wrapped cardboard/paper pipe	OMA	116	ft. 4 in. O.D.	DW	6	25	III	$1,392	$871	$2,263
		throughout	216343-3	wrapped cardboard/paper pipe	OMA	15	ft. 6 in. O.D.	DW	6	25	III	$262	$164	$426
			216344-3	wrapped cardboard/paper pipe	OMA				10	25	III			
			216345-3	wrapped cardboard/paper pipe	OMA				6	25	III			
		throughout	216346-4	mjp on wrapped cardboard/paper	OMA	44	4 in. O.D.	DW	45	25	III	$1,663	$924	$2,587
		throughout	216346-4	mjp on wrapped cardboard/paper	OMA	18	6 in. O.D.	DW	45	25	III	$937	$550	$1,487
			216347-4	mjp on wrapped cardboard/paper	OMA				30	25	III			
			216348-4	mjp on wrapped cardboard/paper	OMA				30	25	III			
		throughout	216349-5	pipe covering	OMA	98	ft. 4 in. O.D.	HWS/R	50	25	III	$1,176	$736	$1,912
		throughout	216349-5	pipe covering	OMA	161	ft. 6 in. O.D.	HWS/R	50	25	III	$2,811	$1,758	$4,569
			216350-5	pipe covering	OMA				50	25	III			
			216351-5	pipe covering	OMA				45	25	III			
									AREA TOTAL			$8,241	$5,003	$13,244

The material is in fair to good condition with contact damage in a few isolated areas. It is covered with a heavy painted canvas wrap. The room is accessed infrequently.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
04	UNITED AIR	1st Floor-Pump Room					AREA AVERAGE % ASB - 35%							
		east wall	216346-4	mjp on wrapped cardboard/paper	OMA	3	10 in. O.D.	DW	45	60	I	$253	$158	$411
			216347-4	mjp on wrapped cardboard/paper	OMA				30	60	I			
			216348-4	mjp on wrapped cardboard/paper	OMA				30	60	I			
									AREA TOTAL			$253	$158	$411

The material is in very poor condition with major water and contact damage. The room is accessed regularly by maintenance personnel.

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
05	UNITED AIR	2nd Floor					AREA AVERAGE % ASB - 10%							
		throughout	216361-0	Transite siding	OMZ	7385	sq.ft.		10	27	III	$17,798	$35,522	$53,320
									AREA TOTAL			$17,798	$35,522	$53,320

The material is water damaged and in very poor condition. There are many worn, broken, or missing tiles. The area is currently not being used.

BUILDING 133
UNITED AIRLINES PUMP HOUSE 74

FINDINGS AND OBSERVATIONS

BUILDING 133 - UNITED AIRLINES PUMP HOUSE 74

Building 133 is a one-story, cinder block and concrete building. It was constructed in 1955 and encompasses 350 square feet.

Ex. 4

Asbestos-containing materials identified in this facility were mudded joint packings associated with nonsuspect pipe covering on the domestic water system. The materials were in poor condition at the time of inspection, creating some dust and debris, and have been classified as Priority Level I. Hall-Kimbrell recommends the material be abated utilizing gross removal procedures.

Roofing paper and felt were sampled and determined nonasbestos-containing.

Please refer to the spreadsheets for material locations and quantities, and specific area comments.

PA 079111

COST ESTIMATE

BUILDING 133 - UNITED AIRLINES PUMP HOUSE 74

Removal of all asbestos-containing materials in Priority Level I and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$7,711
10% Contingency	$771
Total Removal/Replacement with Contingency	$8,482

The total construction cost for materials in this Priority Level was too low to justify applying minimum architectural/engineering design, air monitoring, and reimbursable costs; therefore, these costs were not employed. These figures will have to be independently negotiated.

PA 079112

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 133

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
1 -224101	Y	Y	45	45						15			30	10 SF	100
1 -224102	Y	Y	65	65						5			30		100
1 -224103	Y	Y	45	45						20			35		100
0 -224104	N	N	0							85			10	5 GH	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 74

Building Number: 133 Page 1
Building Name: UNITED HANGAR #8/FIRE STATION
JFK AIRPORT
Building Type: PUMP HOUSE
Constructed: 1955
Inspected: 06/09/88
Inspector: Jeffrey Lanan

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	UNITED AIR	Pump House					AREA AVERAGE % ASB - 0%							
	on the inside of the door		224104-0	roofing tar paper/roofing felt	OMZ		4 sq.ft.		0					
									AREA TOTAL			$0	$0	$0
02	UNITED AIR	Pump House					AREA AVERAGE % ASB - 52%							
	throughout entire building		224101-1	mjp on non-suspect pipe cover	OMA		75 8 in. O.D.	DW	45	87	I	$4,856	$2,855	$7,711
			224102-1	mjp on non-suspect pipe cover	OMA				65	87	I			
			224103-1	mjp on non-suspect pipe cover	OMA				45	87	I			
									AREA TOTAL			$4,856	$2,855	$7,711

The material is in poor condition. The material was exposed and broken down with the substrate showing. The condition of the material has created some debris and dust.

	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
TENANT - UNITED AIR TOTAL	$4,856	$2,855	$7,711
BUILDING TOTAL	$4,856	$2,855	$7,711

PA 079114

BUILDING 134
AMOCO GAS STATION/SITE 1

FINDINGS AND OBSERVATIONS

BUILDING 134 - AMOCO GAS STATION/SITE 1

Building 134 is a one-story Amoco gas station. It was built in 1960 of cinder block and concrete. The facility is heated with gas space heaters.

No asbestos-containing materials were identified in this facility. The panels in the drop ceiling system were sampled and determined not to contain asbestos.

PA 079118

COST ESTIMATE

BUILDING 134 - AMOCO GAS STATION/SITE 1

All suspect materials identified in this facility have been determined nonasbestos-containing by laboratory analysis.

PA 079119

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 134

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS CHRY	AMO	CRO	ANT	TRE	OTHER MATERIALS WOOL	CEL	MICA	PER	BINDER	OTHER	TOTAL
0 -221294	N	N	0							40	10		50		100

PA 079120

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 46

Building Number: 134
Building Name: PUBLIC GAS-AMOCO JFK AIRPORT
Building Type: STATION
Constructed: 1960
Inspected: 07/01/88
Inspector: J. Worstell

AREA #	TENANT	AREA DESCRIPTION / LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
01	AMOCO	Ceilings												
							AREA AVERAGE % ASB -		0%					
		lobby & garage	221294-0	Transite siding	OMZ	960	sq.ft.		0					
									AREA TOTAL			$0	$0	$0
							TENANT - AMOCO		TOTAL			$0	$0	$0
								BUILDING TOTAL				$0	$0	$0

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XI. CERTIFICATION OF REPORT

The information contained in this document is based on physical inspections conducted by Hall-Kimbrell Environmental Services, Inc. We certify that the presence or absence of asbestos is based on the petrographic analysis of bulk samples taken during the survey. All buildings which are reported to not contain asbestos have been inspected and, based on the inspection and analysis of suspect materials encountered, were found to contain no friable asbestos-containing materials.

Bryan S. Ferguson

Bryan Ferguson
Project Manager

Charles W. Ferguson III

Charles Ferguson
Project Coordinator

PA 079123

APPENDICES

APPENDIX A

GLOSSARY OF TERMS

AMBIENT EXPOSURE -- Exposure to environmental fiber concentrations, (i.e. the normal concentration of fibers in an area prior to the disturbance of asbestos-containing materials).

ENCAPSULATE -- To enclose in or surround by a gelatinous substance.

EXPOSURE POTENTIAL -- A numerical value calculated from a series of variables which addresses the degree of risk (of being subjected to asbestos fibers) within an area.

FRIABLE -- Easily crumbled or pulverized.

MULTISAMPLE -- A group of samples (more than one) taken from the same suspect material. Example: Three consecutive samples taken from three different mud packed joints representing one plumbing system, such as a domestic hot water line.

MULTISAMPLE NUMBER -- The number assigned to a group of samples taken to represent one material.

PEAK EXPOSURE -- Exposure at the time of disturbance to asbestos-containing material which creates relatively high fiber concentrations.

PETROGRAPHIC -- Pertaining to the description or systematic classification of substances.

PA 079125

GENERAL ABBREVIATIONS

ACBM -- Asbestos-Containing Building Material

ACM -- Asbestos-Containing Material

A/E -- Architectural and Engineering

A/M -- Air Monitoring

ASB -- Asbestos

BS -- Bulk Sample

CAD -- Computer Aided Drafting

DS -- Dispersion Staining

EXP -- Exposure

GSF -- Gross Square Footage

HEPA -- High Efficiency Particulate Absolute

HVAC -- Heating, Ventilation, and Air Conditioning

LS -- Lump Sum

MJP -- Mudded Joint Packing

NTE -- Time and Materials with an upper limit not-to-exceed cost

OD -- Outside Diameter

O & M -- Operations & Maintenance

OPS -- Operations

PA -- Port Authority

PL -- Priority Level

PLM -- Polarized Light Microscopy

S -- Assessment Study Survey

SAT -- Satellite

TEM -- Transmission Electron Microscopy

T/M -- Straight Time and Materials

VAT -- Vinyl Asbestos Floor Tiles

Z -- Nonfriable Materials

PA 079126

BULK SAMPLE ABBREVIATIONS

BSA	Sprayed Acoustical Plaster (sq. ft.)
BSB	Trowelled Acoustical Plaster (sq. ft.)
BSC	Acoustical/Thermal Insulation (sq. ft.)
BSD	Hard Wall/Ceiling Plaster -- Water Damaged (sq. ft.)
BSE	Pipe Covering (linear ft.)
BSF	Corrugated Pipe Covering (linear ft.)
BSG	Wrapped Cardboard/Paper Pipe Covering (linear ft.)
BSH	Boiler/Tank Insulation (sq. ft.)
BSI	Breecher/Exhaust Stack Packing (sq. ft.)
BSJ	Woven Paper/Tape (sq. ft.)
BSK	Drop or Lay-In Panel (sq. ft).
BSL	Acoustical Tile (sq. ft.)
BSM	Batt-Type Insulation (sq. ft.)
BSN	MJP on Nonsuspect Pipe Covering (#) **
BSO	MJP on Pipe Covering (BSE) (#) **
BSP	MJP on Corrugated Pipe Covering (BSF) (#) **
BSO	MJP on Wrapped Cardboard/Paper Pipe Covering (BSG) (#) **
BSR	Fireproofing (sq. ft.)
BSS	Vibration Joint Cloth (# and length/width)
BST	Interior Duct Insulation (sq. ft.)
BSU	Exterior Duct Insulation (sq. ft.)
BSV	Wall/Ceiling Board (sq. ft.)
BSW	Blown-In Insulation (sq. ft.)
BSX	Debris (sq. ft. and depth)
BSY	Stored Insulations/Material (# and/or cubic feet)
BSZ	Other *

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PIPE IDENTIFICATION

BFW	BOILER FEED WATER
CON	CONDENSATE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY CHWS/R
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER HW/CW
DR	DRAIN
FO	FUEL OIL
HPS	HIGH PRESSURE (STEAM) SUPPLY (15 psi +)
HPR	HIGH PRESSURE (STEAM) RETURN = same as condensate HPS/R
HWR	HOT WATER RETURN (HEATING)
HWS	HOT WATER SUPPLY (HEATING) HWS/R
LPS	LOW PRESSURE (STEAM) SUPPLY (up to 15 psi)
LPR	LOW PRESSURE (STEAM) RETURN = same as condensate LPS/R
MUW	MAKEUP WATER
PW	POTABLE WATER
TW	TREATED WATER
RS/R	REFRIGERANT SUPPLY/RETURN
DT	DUAL TEMPERATURE (CHWS/R AND HWS/R)

PA 079128

APPENDIX B

LIST OF BUILDINGS WITH NO SUSPECT MATERIALS FOUND/NO SAMPLES TAKEN

Building #	Building Name
38	Toll Booths, Lot 2
39	Toll Booths, Lot 5
40	Toll Booths, Lot 3
41	Toll Booths, Lot 8 (Long-Term)
42	Toll Booths, Lot 7
43	Toll Booths, Lot 1
44	Toll Booths, Lot 2
45	Toll Booths, Lot 3
46	Toll Booths, Lot 4
47	International Arrivals Building Storage Building
69	Hudson General/Federal Aviation Administration Offices
70	Hudson General/Federal Aviation Administration Offices
85	Transformer Vault
91	Foam Pump House
92	Substation
97	Transformer Vault 10
98	Light Vault 7
99	Light Vault 9
100	Substations 5 and 6
101	Fuel Distribution Maintenance Garage/Guardhouse
102	Light VH 1/Federal Aviation Administration Building 111
121	American Airlines Garage
136	Public Gas Station/Site 2

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Building #	Building Name
138	Public Gas Station/Site 2
148	Sand and Salt Storage Building
149	Port Authority Gas Station Attendant's Booth
153	Gate Station, Brooklyn Union Gas
158	Allied Maintenance Storage Building
162	Guardhouse, 150th Street, South of Building 260
163	Guardhouse, West Peripheral and 150th Street
164	Switchhouse 1
165	Guard Booth, North Building 250
166	Guard Booth, North Hangars 1 and 2
167	Van Wyck Substation, Building 95
169	Switch House 2, Van Wyck Expressway Underpass
171	Foam Pump House 1
176	Guard Booth, Van Wyck Expressway, Inbound
200	Flammable Storage, West Hangar 1
201	Flammable Storage, East Hangar 2
202	Farmer's Substation
203	Van Wyck Substation
205	Port Authority Facility Storage
216	Flammable Storage Building, Hangar 17
220	Transformer Station
224	Foam Pumping Station 2
228	Guardhouse
229	Transformer Substation
233	Foam Pumping Substation 3
235	Pan Am Airlines Hangar 14, Guardhouse

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Building #	Building Name
236	Storm Water Pump House 1 (Van Wyck Expressway)
237	Storm Water Pump House 2
242	Bulk Area Control Center and Field Office
243	Bulk Fuel Guardhouse
244	Building 150 - Triturator
264	SAS/JAL Cargo Building Pump House
266	Pan Am Airlines Major Main Base Guard Booth
268	Pan Am Airlines Major Main Base Guard Booth
295	TransWorld Airlines Unit Terminal (Apron Level) Attendant Booth/Storage Building
300	Hertz Customer Building
301	Hertz Maintenance Building
302	Hertz Express Service Building
303	Hertz Dispatch Building
304	Hertz Guard Booth
305	Avis Administration
306	Avis Maintenance Building
307	Avis Guardhouse
309	National Guard Booth
310	Budget Rental
311	Budget Maintenance
312	Dollar Rental
314	El Al Test Chamber
319	Guard Booth Hangar 1 and 2 Complex

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APPENDIX C

LABORATORY CERTIFICATIONS

In order to maintain the highest professional caliber of quality field assessment service, Hall-Kimbrell has provided quality assurance reinspection on a random basis on six percent of the areas studied. The documentation of both inspections has been compared with regard to any possible discrepancies. Appraisal of the reassessed areas verifies that compliance within standard acceptable tolerance has been maintained.

Internal and external Laboratory Analysis Quality Assurance has been provided as well. Five to ten percent of all bulk samples have been reanalyzed by a second microscopist and documented. Review of this documentation concentrates on the detection of any measurable variance. Once again, compliance within standard acceptable tolerance has been maintained.

APPENDIX D
SIGNIFICANT POTENTIAL HAZARD AREAS

BUILDINGS CONTAINING SIGNIFICANT POTENTIAL HAZARD AREAS

Building	Area	Material
Building 19 Pan Am Airlines Hangar	north blockhouse	fireproofing material
Building 19 Pan Am Airlines Hangar	south blockhouse	fireproofing material
Building 19 Pan Am Airlines Hangar	mechanical room of the center blockhouse	mudded joint packing debris
Building 54 Northwest Airlines Terminal	exterior overhang above the runway area	fireproofing
Building 56 United Airlines Terminal	penthouse air handling room	exterior duct insulation
Building 59 British Airways Terminal	ground floor air start room	mudded joint packing
Building 67 Pan Am Airlines Cargo Building	return air plenum areas of the third floor boiler room and air handling room	fireproofing
Building 67 Pan Am Airlines Cargo Building	above the drop ceiling system on the first, second, third, and fourth floors of the annex	fireproofing material
Building 81 Cargo Building	west warehouse	fireproofing
Building 111 Fitzgerald Federal Building	ground floor north air handling room	exterior duct insulation
Building 111 Fitzgerald Federal Building	ground floor kitchen air handling room	exterior duct insulation
Building 155 Control Tower	tenth floor wiring room	exterior duct insulation
Building 182 Synagogue	ground floor mechanical room	exterior duct insulation
Building 208 Pan Am Airlines Jet Center	Mechanical Room 7	fireproofing on structural steel

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APPENDIX E

IMMEDIATE RESPONSE ACTION AREAS CONTAINING DEBRIS

IMMEDIATE RESPONSE ACTION AREAS CONTAINING DEBRIS

Building Number	Building Name	Area Numbers
3	Flying Tigers Hangar	03
7	Alitalia/Varig Hangar	13
8	United Airlines Hangar	21
9	Eastern Airlines Hangar	39
50	International Arrivals Building	246, 250, 252, 254, 262, 262A, and 325B
53	Pan Am Airlines Unit Terminal	17
55	Eastern Airlines Unit Terminal	10
56	United Airlines Unit Terminal	35, 43, and 51
59	British Airways Unit Terminal	36
95	TWA Commissary	02
111	Fitzgerald Federal Building	01, 15, and 17
127	Flying Tigers West Center Lean-To	04
141	Port Authority Administration Building	03
144	Viscount International Hotel	17A, 18
155	Control Tower	23
214	Pan Am Airlines Jet Test Cells	16
262	Flying Tigers	03

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COST ESTIMATE

IMMEDIATE RESPONSE AREAS

Removal of all asbestos-containing debris in Immediate Response Areas and replacement with nonasbestos-containing materials.

Total Removal/Replacement	$69,526
10% Contingency	$6,953
Total Removal/Replacement with Contingency	$76,479

The above total cost with contingency is an estimate of the actual cost once the bids are opened or the project is negotiated with a contractor.

Architectural/Engineering fees for design management, development of specifications and plans, etc.	
Estimated at 12.0% of Total Construction Cost:	
12.0% X $76,479	$9,177
On-site air monitoring and construction supervision during abatement (based on $490.00 per 8-hour shift per technician)	
Estimated at 22 8-hour shifts:	
22 X $490	$10,780
Reimbursable out-of-pocket and travel-related expenses	
Estimated at 2.0% of Total Construction Cost:	
2.0% X $76,479	$1,530
Total Project Estimate Including Professional Fees and Contingency	$97,966

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ESTIMATED COSTS FOR REMOVAL OF DEBRIS IN IMMEDIATE RESPONSE AREAS

BUILDING NUMBER/NAME	AREA NUMBER	AREA COST	BUILDING TOTAL
3/Flying Tigers Hangar	3	$100	$100
7/Alitalia/Varig Hangar	13	100	100
8/United Airlines Hangar	21	100	100
9/Eastern Airlines Hangar	39	100	100
50/International Arrivals	246	334	
	250	100	
	252	100	
	254	100	
	262	100	
	262A	100	
	325B	100	934
53/Pan Am Airlines Unit Terminal	17	200	200
55/Eastern Airlines Unit Terminal	10	100	100
56/United Airlines Unit Terminal	35	100	
	43	100	
	51	100	300
59/British Airways	36	100	100
95/TWA Commissary	2	5,160	5,160
111/Fitzgerald Federal Building	1	61,232	
	15	100	
	17	100	61,432

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ESTIMATED COSTS FOR REMOVAL OF DEBRIS IN IMMEDIATE RESPONSE AREAS

BUILDING NUMBER/NAME	AREA NUMBER	AREA COST	BUILDING TOTAL
127/Flying Tigers West Center Lean-To	4	200	200
141/Port Authority Administration Building	3	100	100
144/Viscount International Hotel	17A 18	100 100	200
155/Control Tower	23	100	100
214/Pan Am Airlines Jet Test Cells	16	100	100
262/Flying Tigers	3	200	200
TOTAL			$69,526

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APPENDIX F

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY ASBESTOS MANAGEMENT AND CONTROL PROGRAM

One of the principal objectives of The Port Authority of New York and New Jersey is to maintain safe facilities for patrons, tenants, employees, and others. Since asbestos is present at Port Authority facilities and, if disturbed, may present a potentially hazardous condition, a policy and implementing practices and procedures have been developed.

1. Policy

It is the policy of the Port Authority to undertake asbestos abatement and related actions in a cost-efficient and effective manner when:

- Unsafe or potentially hazardous conditions require action
- Asbestos will be disturbed to perform necessary operations and maintenance work and/or to advance capital projects
- Abatement is part of a business arrangement or marketing strategy

To achieve these policies, The Port Authority has established the following practices and procedures.

2. Practices

- Properties under the jurisdiction of the Port Authority are surveyed to determine the presence and condition of asbestos materials (i.e. air and raw bulk samples are analyzed).
- When asbestos-containing materials (ACM) are found, they are prioritized and action is taken when appropriate.
- Asbestos survey reports are consulted before any material suspected to contain asbestos is disturbed.
- In the absence of any survey data, employees working in areas typically having ACM must assume that asbestos is present.
- Port Authority safety requirement (which incorporate the mandates of federal law and the general practice of following local government laws and regulations where appropriate) are observed in situations where asbestos may be disturbed.

3. Procedures

a. Training

- No employee is authorized to disturb asbestos unless properly trained.
- Port Authority staff working in the proximity of asbestos or having asbestos issues involved with their work assignments are required to attend four (4) hours of Asbestos Awareness Training.

PA 079141

- An employee is authorized to disturb up to ten square feet (or ten linear feet) of asbestos using appropriate work procedures, provided the employee has had a minimum of sixteen (16) hours of specific asbestos training.

b. Abatement - Port Authority Process

- Determination as to whether asbestos abatement is necessary and how it should be performed is, in the first instance, the responsibility of the facility staff, the Resident Engineer's office, the Asbestos Management and Compliance Division, and the Environmental Unit of the Engineering Design.

- After asbestos abatement is deemed appropriate, the Asbestos Management and Compliance Division is responsible for the issuance of an Asbestos Abatement permit authorizing the work to be performed in accordance with agreed upon procedures and submittals.

- Upon request, the Manager of the Asbestos Management and Compliance Division may approve a variance to abatement regulations or operations and maintenance work procedures.

- Generally, all Port Authority abatement contracts are monitored on a full-time basis by a member of the Asbestos Management and Compliance Division, their consultant, or, when qualified and available, facility staff under the direction of the Asbestos Management and Compliance Division.

- Asbestos Management and Compliance Division performs final air clearance for all Port Authority abatement contracts.

- Abatement work in excess of $150,000.00 is generally awarded through the competitive bid process to contractors who have been prequalified and are on current select lists.

- Call-in asbestos abatement contracts do not exceed $150,000.00 unless otherwise approved by the Engineering Design Division's Environmental Engineering Unit, the Asbestos Management and Compliance Division, and the Asbestos Control Program.

c. Abatement - Tenant Process

- No tenant area is altered nor is an asbestos abatement permit issued without an approved Tenant Alteration Application from the Port Authority.

- Tenant abatement work is performed in accordance with Port Authority specifications.

- Tenant abatement work is approved by the Asbestos Management and Compliance Division and the Engineering Design Division's Environmental Engineering Unit.

- Tenant abatement work is audited by the Asbestos Management and Compliance Division and reoccupancy is authorized after final air clearance is either conducted or reviewed by the Asbestos Management and Compliance Division.

4. Funding

- Annual expenditures for asbestos abatement are budgeted within departmental budgets.

- Line departments, with the assistance of the Environmental Unit of the Engineering Design Division and the Asbestos Management and Compliance Division of the Treasury Department, utilize facility baseline surveys to identify and propose asbestos resource requirements.

- Proposed departmental asbestos resource requirements are consistent with the Executive Director's Guidance and department financial targets.

- Specific asbestos abatement work is proposed on the Asbestos Resource Requirement Form which is reviewed by the Asbestos Control Program staff prior to budget submittals to the Management and Budget Department.

- Funds for unbudgeted and approved asbestos abatement work are provided through trade-offs of budgeted asbestos projects or from offsets of other approved resources.

PA 079143

OGDEN ALLIED
ABATEMENT & DECONTAMINATION SERVICE, INC.
31-16 Hunters Point Avenue
Long Island City, NY 11101
718 392 5338

October 24, 1990

Mr. Sanjay Jayachandran
Environmental Protection Agency
Asbestos NESHAPS Contact
Air and Waste Management Division
EPA Region II
26 Federal Plaza
New York, NY 10007

Re: Ten Day Notification of Asbestos Removal Activities Pursuant to 40 CFR § 61.146

Pursuant to the requirements of 40 CFR § 61.146, the following notification of impending asbestos removal is provided by Ogden Allied Abatement & Decontamination Service, Inc. located at Two Pennsylvania Plaza, New York, N.Y., 10121.

FACILITY TO BE DEMOLISHED OR RENOVATED

Address of Facility:	American Airlines, LaGuardia Airport Flushing, New York 11371
Owner of Facility:	Port Authority of NY & NJ
Size of Facility:	2 Stories
Age of Facility:	Approximately 23 years old
Prior Usage:	Airport Terminal
Work Area:	Approximately 3,590 sq.ft. of the asbestos containing fireproofing; and 2,550 V.A.T. ; and 363 elbows will be removed from Finger # 1, Apron Level of the American Airlines Terminal
Project Schedule:	Start Date 11/10/90 Completion Date 05/15/91
Removal Emission Control Procedures:	The work area will be isolated using six-mil plastic. Negative pressure will be applied to the area. The asbestos containing material will be wetted, removed and placed directly into sealed double six-mil bags.

P 707273

OGDEN ALLIED ABATEMENT

Waste Hauler: Asbestos Carting Corp.
NY State DEC Permit # 2A-189

Waste Disposal Site: Roe Creek Development, Inc.
PO Box 655
Catlettsburg, Kentucky 41129

If further information is required, please contact me at the above address or by calling (718) 392-5950.

Sincerely,

Dino P Colalillo/rdd

Dino P. Colalillo
Vice President

DPC:rdd

P 707274

y-6158A

P 726343

Hygienetics, Inc.

Industrial Hygienists/Engineers/Architects/Environmental Consultants

Compliance Monitoring Report for Asbestos Abatement

American Airlines
Hangar 10
First Floor Core Floor
Aircraft Operations

Table of Contents

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4) Air Monitoring Methods and Precautions ..... Page 3

5) Attachment A—Project Permits

6) Attachment B—Air Sample Results

7) Attachment C—Worker Submittals

8) Attachment D—H^+GCL Daily Log

9) Attachment E—OSHA personnel Air Sampling

10) Attachment F—Waste Manifests

Compliance Monitoring Report
for
Asbestos Abatement Project

Client:	American Airlines
Location:	Hangar 10 JFK International Airport Jamaica, NY 11430
Project:	Hangar 10 Core Floor VAT Phase II, T.A.A. 6158A
Contractor:	National Abatement Corp. 100 Varick Street New York, NY 10013
Project No:	7021.42
Project Dates:	March 9, 1992 - March 23, 1992
Date of Report:	July 28, 1992

Project Description

This phase of the project abated asbestos materials from the following area of Hangar 10.

Area	ACM Removed
Core Floor Center First Floor Aircraft Operations	Vinyl Asbestos Floor Tiles, Pipe and Pipe Fitting Insulation

Summary of Abatement Work

Asbestos abatement work performed during this project consisted of the following:

(1) compliance with all Federal, State, and Local regulations;

(2) isolation of the work area where asbestos-containing material (ACM) was to be removed, to prevent fiber migration into adjoining areas during abatement work;

P 726345

(3) sealing of fixed equipment with double layers of 6-millimeter polyethylene;

(4) removal of vinyl asbestos floor tiles (2 layers in some areas) thermal insulation on pipe elbows and fittings, and contain fiberglass insulation on piping and ductwork;

(5) fine cleaning of the entire area;

(6) encapsulation of all areas from which asbestos was removed;

(7) proper bagging of materials from all areas were asbestos was removed;

(8) "clean-air" certification tests by H+GCL.

Protective Controls

(1) a three room Worker Decontamination Facility (DF), with three showers, was installed at the entrance to the containment area on the north side of the work area.

(2) a waste Decontamination Facility was installed adjacent to the worker decon consisting of a washing area between two air locks for proper washing and double bagging of ACM waste.

(3) All temporary critical barriers of the work area were sealed with four (4) layers of 6-mil fire retardant polyethylene sheeting. Existing walls and floors were covered with two (2) layers of poly. Contractor was responsible for sealing and maintaining the area airtight to the maximum extent possible.

(4) Portable High Efficiency Particulate Absolute (HEPA) exhaust units were placed inside the containment areas four (4) units were used and placed in series to form two pairs. The exhaust air was then exhausted into the south hangar bay. The areas were kept at a negative pressure of at least 0.02 inches w.g. to the surrounding areas. All make up air into the contained areas was brought in through the D.F.'s.

(5) All electrical power in the removal areas was supplied on circuits with G.F.I. protection.

(6) Abatement workers were required to wear full-body disposable coveralls and NIOSH/MSHA approved powered air purifying respirators following containment of the area, and during all work activities until the area received "clean-air" certification.

(7) All asbestos-containing materials were thoroughly wetted prior to removal to minimize fiber release and prevent possible contamination of adjoining spaces. Waste was thoroughly wetted once placed into disposable containers.

(8) All surfaces within the work area were locked down with bridging encapsulant after abatement work was complete.

Waste Disposal Methods and Documentation

(1) Asbestos waste including, floor tile, equipment insulation, pipe elbows and fittings, fiberglass insulation, coveralls, filters, contaminated metal scraps and other miscellaneous waste was placed in 6-mil polyethylene bags and in sealed fiber drums (with OSHA warning labels). Bags were required to be washed in the waste D.F. and bags placed in a second clean bag.

(2) Asbestos waste consisted of approximately thirty-three (33) cubic yards of previously listed asbestos waste. Two (2) waste documentation forms were signed and given to Asbestos Carting Corp. (waste hauler) for transfer to the landfill. The landfill that was used is located in Irwin, Pennsylvania. The completed forms are included at the end of this report in attachment E.

Air Monitoring Methods and Precautions

Air monitoring was conducted by H+GCL before, during and after abatement. All samples were then analyzed by Laboratory Testing Services. Ninety-eight (98) samples were collected, the results of which are summarized in Attachment B. Samples were collected prior to any abatement related activities to document any existing airborne asbestos fibers and analyzed by Phase Contrast Microscopy (PCM) according to the National Institute of Occupational Safety and Health (NIOSH) 7400 "A" method.

Samples were collected during abatement activities to monitor and document any release or elevation in air fiber concentration around the contained area. Samples were collected on 0.8 micron mixed cellulose ester filters using 25-millimeter open-faced cassettes and were analyzed by Phase Contrast Microscopy (PCM) according to National Institute of Occupational Safety and Health (NIOSH) 7400 "A" method. Results indicate that air samples were below the maximum fiber concentration of 0.01 f/cc (fibers per cubic

centimeter of air) regarded as "clean-air" by the EPA (Environmental Protection Agency).

"Clearance-Air" samples were taken inside the contained area after completion of abatement activities, results of which proved to be below the maximum fiber concentration of 0.01 f/cc (fibers per cubic centimeter of air) regarded as "clean-air" by the EPA. Results of these clean air tests were sent to J.F.K.'s Resident Engineers Office and the Asbestos Management Division before the contained area was broken down. These air sample results are also found in Attachment B of this report.

BB#1/R0003

ATTACHMENT A
Project Permits/Licenses

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726349

MAR 1992

Notification of Demolition and Renovation

Operator Project #	Postmark	Date Received	Notification #
7021-			

I. TYPE OF NOTIFICATION (O=Original R=Revised C=Cancelled): R

II. FACILITY INFORMATION (Identify owner, removal contractor, and other operator)

OWNER NAME: Port Authority of NY&NJ

Address: One World Trade Center

City: New York State: NY Zip: 10048

Contact: Tel:

REMOVAL CONTRACTOR: National Abatement Corp.

Address: 100 Varick St.

City: New York State: NY Zip: 10013

Contact: Mr. Marino Prodan Tel: 212-219-0880

OTHER OPERATOR: American Airlines

Address: J.F.K. International Airport

City: Jamaica State: NY Zip: 11430

Contact: Mr. Gerry Dumas Tel: 718-244-3361

III. TYPE OF OPERATOR (D=Demo O=Ordered Demo R=Renovation E=Emer. Renovation) R

IV. IS ASBESTOS PRESENT? (Yes/No) Yes

V. FACILITY DESCRIPTION (Include building name, number and floor or room number)

Bldg Name: Hangar 10

Address: J.F.K. International Airport

City: Jamaica State: NY County: Queens

Site Location: 1st Floor, Core Building - Foreman's Office

Building Size: 400,000 s.f. # of Floors: 4 Age in Years: 25

Present Use: Prior Use:

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL: Bulk Samples were collected and analyzed using the EPA-approved Polarizes Light microscopy with Dispersion Staining (PLM/DS) method.

VII. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: 1. Regulated ACM to be removed 2. Category I ACM Not Removed 3. Category II ACM Not Removed	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed Cat I	Cat II	Indicate Unit of Measurement Below UNIT
Pipes	CHRYSOTILE			28 FITTINGS
Surface Area	CHRYSOTILE			3900
Vol. RACM Off Facility Component				

VIII. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: 3/9/92 Complete: 3/18/92

IX. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: 3/21/92 Complete: 4/5/92

P 726350

Continued on next page (page 2 of 2)

RECEIVED

Notification of Demolition and Renovation

Operator Project #	Postmark	Date Received	Notification #

I. TYPE OF NOTIFICATION (O=Original R=Revised C=Cancelled): R

II. FACILITY INFORMATION (Identify owner, removal contractor, and other operator)

OWNER NAME: Port Authority of NY & NJ

Address: One World Trade Center

City: New York State: NY Zip: 10048

Contact: Tel:

REMOVAL CONTRACTOR: National Abatement Corp.

Address: 100 Varick Street

City: New York State: N.Y. Zip: 10013

Contact: Mr. Marino Prodan Tel: 212-219-0880

OTHER OPERATOR: American Airlines

Address: J.F.K. International Airport

City: Jamaica State: NY Zip: 11470

Contact: Mr. Gerry Dumas Tel: 718-244-3361

III. TYPE OF OPERATOR (D=Demo O=Ordered Demo R=Renovation E=Emer. Renovation): R

IV. IS ASBESTOS PRESENT? (Yes/No) Yes

V. FACILITY DESCRIPTION (Include building name, number and floor or room number)

Bldg Name: Hangar 10

Address: J.F.K International Airport

City: Jamaica State: NY County: Queens

Site Location: 1st Floor Core Building - Foreman's Office

Building Size: 400,000 Sq.Ft # of Floors: 4 Age in Years: 25

Present Use: Prior Use:

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL: Bulk Samples were collected and analyzed using The E.P.A Approved Polarized Light Microscopy with Dispersion Staining Method.

VII. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: 1. Regulated ACM to be removed 2. Category I ACM Not Removed 3. Category II ACM Not Removed	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed Cat I	Cat II	Indicate Unit of Measurement Below UNIT
Pipes	CHRYSOTILE			28 FITTINGS
Surface Area	CHRYSOTILE			3900
No. RACM Of Facility Components				

VIII. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: MARCH 9,1992 Complete: MARCH 23,1992

IX. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: MARCH 24,1992 Complete: APRIL 5,1992

Continued on next page (Page 2)

P 726351

PERMIT NUMBER

03/13/92
PERMIT EXPIRATION DATE

REVISED

PORT AUTHORITY OF NY & NJ

ASBESTOS ABATEMENT PERMIT PLACARD

P 726352

FACILITY: JOHN F. KENNEDY INTERNATIONAL AIRPORT
LOCATION: BUILDING: HANGAR #10, AMERICAN AIRLINES
TENANT & TAA NUMBER: Y-6158A
PA CONTRACT NUMBER / JOB NUMBER: 215.139

AUTHORIZATION FOR: NATIONAL ABATEMENT CORPORATION / AC-91-0590 TO CONDUCT THE FOLLOWING:
Abatement Contractor and License Number

ABATEMENT PROCEDURE(S):

- ___ CLEAN-UP - SITE DECONTAMINATION
- ___ INCIDENTAL REMOVAL PROJECT
- ___ SMALL SCALE REMOVAL PROJECT
- X LARGE SCALE REMOVAL PROJECT
- ___ GLOVE BAG PROJECT
- ___ TRANSITE PANEL REMOVAL
- ___ ENCAPSULATION
- ___ OTHER: N/A

___ VARIANCE REQUESTED AND APPROVED

TYPE(S) OF ACM TO BE ABATED:

- ___ SPRAYED-ON INSULATION
- ___ PLASTER-LIKE INSULATION
- X PIPE INSULATION
- ___ BOILER INSULATION
- ___ CLOTH WRAPPING
- ___ TRANSITE
- X OTHER: V.A.T.

THE PORT AUTHORITY OF NY & NJ
MANAGER, ASBESTOS MANAGEMENT DIVISION

THIS PLACARD SHALL BE POSTED CONSPICUOUSLY AT THE WORK SITE AND SHALL REMAIN POSTED UNTIL ISSUANCE OF A CERTIFICATE OF REOCCUPANCY.

03/06/92
DATE ISSUED

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
ONE MAIN STREET
BROOKLYN, NY 11201

ASBESTOS HANDLING LICENSE

LICENSE NUMBER: AC-91-0590
DATE OF ISSUE: 07-03-91
EXPIRATION DATE: 07-31-92

Contractor: NATIONAL ABATEMENT CORPORATION

Address: 100 VARICK STREET
NEW YORK, NY 10013

Duly Authorized Representative: MICHAEL J. CAPUTO

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maria L. Colavito

Maria L. Colavito, Director
FOR THE COMMISSIONER OF LABOR

DOSH-432 (2-91)

P 726353

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
ONE MAIN STREET
BROOKLYN, NY 11201

ASBESTOS HANDLING LICENSE

LICENSE NUMBER: AC-91-0590
DATE OF ISSUE: 07-03-91
EXPIRATION DATE: 07-31-92

Contractor: NATIONAL ABATEMENT CORPORATION

Address: 100 VARICK STREET
NEW YORK, NY 10013

Duly Authorized Representative: MICHAEL J. CAPUTO

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maria L. Colavito

Maria L. Colavito, Director
FOR THE COMMISSIONER OF LABOR

DOSH-432 (2-91)

P 726354

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY) 3/6/92

PRODUCER

VBC Systems Corporation
865 Palmer Avenue
Suite 201, P.O. Box 918
Larchmont, New York 10538

REVISED *This Revised Cert. #2 Supercedes and Replaces 1st Revision

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A — Reliance Insurance Co. of Illinois

COMPANY LETTER B

COMPANY LETTER C

COMPANY LETTER D

COMPANY LETTER E

INSURED

National Abatement Corporation
100 Varick Street
New York, New York 10013

Attn: Leann

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
	GENERAL LIABILITY				GENERAL AGGREGATE	$ 5,000,000.
A	X COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG	$ 1,000,000.
	CLAIMS MADE X OCCUR	NGI 149 7583 01	7/25/91	7/25/92	PERSONAL & ADV INJURY	$ 1,000,000.
	OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$ 1,000,000.
	X ASBESTOS LIABILITY				FIRE DAMAGE (Any one fire)	$ 50,000.
					MED EXPENSE (Any one person)	$ 5,000.
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	ANY AUTO					
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
n/a	SCHEDULED AUTOS	n/a	n/a	n/a		
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
	GARAGE LIABILITY				PROPERTY DAMAGE	$
	EXCESS LIABILITY				EACH OCCURRENCE	$
n/a	UMBRELLA FORM	n/a	n/a	n/a	AGGREGATE	$
	OTHER THAN UMBRELLA FORM					
	WORKER'S COMPENSATION				STATUTORY LIMITS	
n/a	AND	n/a	n/a	n/a	EACH ACCIDENT	$
	EMPLOYERS' LIABILITY				DISEASE—POLICY LIMIT	$
					DISEASE—EACH EMPLOYEE	$

OTHER *NOTE: The aggregate limit of liability is applicable to all Named Insured's scheduled projects during the policy period shown above.

CERT #110 REV. PROJECT NAME & LOC.: American Airlines, Inc., Hanger 10, J.F.K. International Airport, Jamaica, NY.

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

ADDITIONAL INSURED REVISED TO READ: American Airlines, Inc. Corporate Real Estate Division, MD 3457, Dallas/Fort Worth Airport, TX 75261-9616 and Port Authority of N.Y. and N.J. REVISED START DATE: 3/2/92. REVISED COMPLETION DATE: 4/2/92.

CERTIFICATE HOLDER

American Airlines, Inc. Corporate Real Estate Division
MD 3457
Dallas/Fort Worth Airport, TX 76261-9616

NAC JOB #91606

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL (30) DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

©ACORD CORPORATION 1990

P 726355

47-20-3 (5/90)—26

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION • BUREAU OF PROGRAM AND TECHNICAL SUPPORT
50 WOLF ROAD, ALBANY, NEW YORK 12233-7250

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364 No. of Additional Sheets Attached 01

NYSDEC PERMIT NUMBER	EPA TRANSPORTER ID NUMBER	VEHICLE STATE & LICENSE NUMBER
2A-189	NYD986873008	SEE LIST OF VEHICLES

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY	COUNTY	STATE	ZIP CODE
BRONX N.Y.CITY	BRONX	NY	10474

Having complied with the provisions of the Environmental Conservation Law Titles 3 and 15, of Article 27 is hereby authorized to engage in waste transporting within the State of New York in the manner described herein

TYPE OF WASTE AND LOCATION OF TREATMENT, STORAGE OR DISPOSAL FACILITY

TSDF # 1 INFORMATION WASTE WASTE DESCRIPTION

00008 N816 CONTAMINATED DIRT, SOILS OR SAND
AMERICAN RECLAMATION CORP
130 STURBRIDGE RD RT 20
CHARLTON MA 01508

TSDF # 2 INFORMATION WASTE WASTE DESCRIPTION

NYD077444263 *D001 NON-LISTED IGNITABLE WASTES
HEMICAL WASTE DISPOSAL C D002 NON-LISTED CORROSIVE WASTES
42-14 19TH AVENUE F003 NON-HAL SOLV & ST BTMS FM REC (XYLENE ETC.
ASTORIA NY 11105 F005 NON-HAL SOLV & STL BTMS FM REC (TOLUNE,MEK

TSDF # 3 INFORMATION WASTE WASTE DESCRIPTION

NYD981182769 D002 NON-LISTED CORROSIVE WASTES
K B F - POLLUTION MANAGEM D011 SILVER 5.0MG/L TCLP
1110 FARMINGDALE ROAD F006 WW TREAT SL FM ELECTROPLATING OPER
NORTH LINDENHURS NY 11757 F007 PLATING BATH SOL FM ELECTROPLATING OPER

********** CONTINUED ON NEXT PAGE **********

P 726356

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 93 AND IS SUBJECT TO [illegible] THIS PERMIT IS NOT TRANSFERABLE

Witness whereof, the Department of Environmental Conservation has caused this permit to be executed on the 08 day of APRIL 92

By Frank Piazza
New York State Department of Environmental Conservation Representative

NOTE: This Permit does not relieve the transporter of the responsibility of complying with any other applicable

47-20-3 (5/90)--26a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION • BUREAU OF PROGRAM AND TECHNICAL SUPPORT
50 WOLF ROAD, ALBANY, NEW YORK 12233-7250

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364 No. of Additional Sheets Attached

02

NYSDEC PERMIT NUMBER	EPA TRANSPORTER ID NUMBER	VEHICLE STATE & LICENSE NUMBER
2A-189	NYD986873008	SEE LIST OF VEHICLES

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY	COUNTY	STATE	ZIP CODE
BRONX N.Y.CITY	BRONX	NY	10474

Having complied with the provisions of the Environmental Conservation Law Titles 3 and 15, of Article 27, is hereby authorized to engage in waste transporting within the State of New York in the manner described herein

TYPE OF WASTE AND LOCATION OF TREATMENT, STORAGE OR DISPOSAL FACILITY:

TSDF # 4 INFORMATION WASTE WASTE DESCRIPTION

43S02 N807 ASBESTOS WASTE (SEE CONDITIONS)
MULDOON AVE. TRUCKFILL (F
MULDOON AVE.
STATEN ISLAND NY 10314

TSDF # 5 INFORMATION WASTE WASTE DESCRIPTION

00023 *N807 ASBESTOS WASTE (SEE CONDITIONS)
ASBESTOS CARTING CORP.
1199 RANDALL AVENUE
BRONX NY 10474

TSDF # 6 INFORMATION WASTE WASTE DESCRIPTION

00018 N807 ASBESTOS WASTE (SEE CONDITIONS)
ATHENS HOCKING RECLAMATIO
RTE 33 BOX 946
LOGAN OH 43138

********** CONTINUED ON NEXT PAGE **********

P 726357

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 19 93 and is subject to revocation at any time. This permit is not transferable

In witness whereof, the Department of Environmental Conservation has caused this permit to be executed on this 08 day of APRIL 19 92

By Frank Piazza
New York State Department of Environmental Conservation Representative

29.20.3 (5/90)--26a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF HAZARDOUS SUBSTANCES REGULATION • BUREAU OF PROGRAM AND TECHNICAL SUPPORT

50 WOLF ROAD, ALBANY, NEW YORK 12233-7250

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364 No. of Additional Sheets Attached 03

NYSDEC PERMIT NUMBER	EPA TRANSPORTER ID NUMBER	VEHICLE STATE & LICENSE NUMBER
2A-189	NYD986873008	SEE LIST OF VEHICLES

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY	COUNTY	STATE	ZIP CODE
BRONX N.Y.CITY	BRONX	NY	10474

Having complied with the provisions of the Environmental Conservation Law Titles 3 and 15, of Article 27, is hereby authorized to engage in waste transporting within the State of New York in the manner described herein.

TYPE OF WASTE AND LOCATION OF TREATMENT, STORAGE OR DISPOSAL FACILITY:

TSDF # 7 INFORMATION WASTE WASTE DESCRIPTION

00078 N807 ASBESTOS WASTE (SEE CONDITIONS)
POTTSTOWN LANDFILL
SELL ROAD
POTTSTOWN PA 19464

TSDF # 8 INFORMATION WASTE WASTE DESCRIPTION

00095 *N807 ASBESTOS WASTE (SEE CONDITIONS)
VALLEY LANDFILL
PLEASANT VALLEY RD BOX 28
IRWIN PA 15642

TSDF # 9 INFORMATION WASTE WASTE DESCRIPTION

00100 N807 ASBESTOS WASTE (SEE CONDITIONS)
SOUTHERN ALLEGHENIES LAND
RD 3 BOX 310
HOLSOPPLE PA 15935

********** CONTINUED ON NEXT PAGE **********

P 726358

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 19 93 and is subject to revocation as any time. This permit is not transferable.

Witness whereof, the Department of Environmental Conservation has caused this permit to be executed on this 08 day of APRIL 19 92

47-20-3 (5/90) 20a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION • BUREAU OF PROGRAM AND TECHNICAL SUPPORT
50 WOLF ROAD, ALBANY, NEW YORK 12233-7250

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364 No. of Additional Sheets Attached 04

NYSDEC PERMIT NUMBER	EPA TRANSPORTER ID NUMBER	VEHICLE STATE & LICENSE NUMBER
2A-189	NYD986873008	SEE LIST OF VEHICLES

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY	COUNTY	STATE	ZIP CODE
BRONX N.Y.CITY	BRONX	NY	10474

Having complied with the provisions of the Environmental Conservation Law Titles 3 and 13, of Article 27, is hereby authorized to engage in waste transporting within the State of New York in the manner described herein.

TYPE OF WASTE AND LOCATION OF TREATMENT, STORAGE OR DISPOSAL FACILITY:

TSDF #10 INFORMATION	WASTE	WASTE DESCRIPTION
00004 S &.S LANDFILL INC ROUTE 5 BOX.559 CLARKSBURG WV 26301	N807	ASBESTOS WASTE (SEE CONDITIONS)

TSDF #11 INFORMATION	WASTE	WASTE DESCRIPTION
00009 PRICHARD LANDFILL 5830 BIG SANDY RIVER ROAD PRICHARD WV 25555	N807	ASBESTOS WASTE (SEE CONDITIONS)

TSDF #12 INFORMATION	WASTE	WASTE DESCRIPTION
00012 HAM SANITARY LANDFILL.INC 1 BOZOO ROAD PETERSTOWN WV 24963	N807	ASBESTOS WASTE (SEE CONDITIONS)

******** END OF TREATMENT, STORAGE OR DISPOSAL FACILITY INFORMATION *******

P 726359

PAGE 4 OF 6 PAGES

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 19 93 and is subject to revocation at any time. This permit is not transferable.

In witness whereof, the Department of Environmental Conservation has caused this permit to be executed this 08 day of APRIL 19 92

47-20-3 (5/90)—2ha

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION • BUREAU OF PROGRAM AND TECHNICAL SUPPORT
50 WOLF ROAD, ALBANY, NEW YORK 12233-7250

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364 No. of Additional Sheets Attached 05

NYSDEC PERMIT NUMBER	EPA TRANSPORTER ID NUMBER	VEHICLE STATE & LICENSE NUMBER
2A-189	NYD986873008	SEE LIST OF VEHICLES

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY	COUNTY	STATE	ZIP CODE
BRONX N.Y.CITY	BRONX	NY	10474

Having complied with the provisions of the Environmental Conservation Law Titles 3 and 15, of Article 27, is hereby authorized to engage in waste transporting within the State of New York in the manner described herein.

TYPE OF WASTE AND LOCATION OF TREATMENT, STORAGE OR DISPOSAL FACILITY:

CONDITION: EPA TCLP HAZARDOUS WASTE REGULATIONS EFFECTIVE 9/25/90 ADDED 25 ORGANIC MATERIALS, INCLUDING SEVERAL VOLATILE SOLVENTS TO ITS TOXICITY CHARACTERISTIC LIST. PETROLEUM SUBSTANCES MAY BE AFFECTED BY THESE REGULATIONS. THE TRANSPORTER IS RESPONSIBLE FOR COMPLIANCE WITH 40 CFR 263.

CONDITION: ASBESTOS-CONTAINING WASTES SHALL BE COLLECTED, PACKAGED, TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS (CODE OF REGULATIONS, TITLE 40, PART 61, SUBPARTS A AND M (40 CFR 61 A AND M)) AND THE U.S. DEPARTMENT OF LABOR - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) ASBESTOS REGULATIONS (29 CFR 1910).

CONDITION: MULDOON AVENUE FACILITY WILL ONLY ACCEPT ASBESTOS WASTE GENERATED WITHIN N.Y.CITY.

********** END OF CONDITIONS **********

P 726360

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 19 93 and is subject to revocation at any time. This permit is not transferable.

In witness whereof, the Department of Environmental Conservation has caused this permit to be executed on this 08 day of APRIL 92

47 70-3 (5/90)—2bu

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF HAZARDOUS SUBSTANCES REGULATION • BUREAU OF PROGRAM AND TECHNICAL SUPPORT

50 WOLF ROAD, ALBANY, NEW YORK 12233-7250

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364

No. of Additional Sheets Attached 06

NYSDEC PERMIT NUMBER	EPA TRANSPORTER ID NUMBER	VEHICLE STATE & LICENSE NUMBER
2A-189	NYD986873008	LIST OF VEHICLES

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY	COUNTY	STATE	ZIP CODE
BRONX N.Y.CITY	BRONX	NY.	10474

Having complied with the provisions of the Environmental Conservation Law Titles 3 and 15, of Article 27, is hereby authorized to engage in waste transporting within the State of New York in the manner described herein.

TYPE OF WASTE AND LOCATION OF TREATMENT, STORAGE OR DISPOSAL FACILITY:

EP3409	EP4069	DW7792	CR1075	GP2605	53571V
54235V	53572V	53569V	54236V	VX1523	54549V
54548V	53594V	53593V	53596V	53595V	56000T
56001T	56002T	56012T	56022T	56053T	IP1775
TV48396 ✓	TV06046 ✓	TV06047 ✓	TV06048	TV06049	TV06051

********** END OF PERMITTED VEHICLE LISTING **********

P 726361

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 93

and is subject to revocation at any time. This permit is not transferable

ATTACHMENT B
Air Sample Results

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726362

Laboratory Testing Services

LAB. NO.: 92-05572(N2)

REPORT OF
AIR SAMPLING
FOR

HYGIENETICS, INC.
261 MADISON AVENUE
NEW YORK, NEW YORK 10016

AT

J.F.K. AIRPORT
AMERICAN AIRLINES
HANGAR 10
CORE FLOOR VAT
PHASE II
13TH FLOOR

APRIL 10, 1992

P 726363

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0006 • FAX NO. 516-334-7720

Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: March 27, 1992 LAB.NO.: 92-05572(N1)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor, V.A.T., Phase II

JOB #: 7021-42 (A)
SAMPLING DATE: 03/09/92
DATE RECEIVED IN LAB: 03/11/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm²)	(f/cc)*
01	92A10637	INSIDE WORK AREA, PHASE 2, CENTER	<12.7	<0.004
02	92A10638	INSIDE WORK AREA, PHASE 2, SOUTH	<12.7	<0.004
03	92A10639	INSIDE AREA, PHASE 2, NORTH	<12.7	<0.004
04	92A106[illegible]0	INSIDE AREA, PHASE 2, EAST	<12.7	<0.004
05	92A10641	INSIDE AREA, PHASE 2, WEST	<12.7	<0.004
06	92A10642	INSIDE AREA, PHASE 2, CENTER	<12.7	<0.005
07	92A10643	INSIDE AREA, PHASE 2, EAST	<12.7	<0.005
08	92A10644	INSIDE AREA, PHASE 2, WEST	<12.7	<0.005
09	92A10645	INSIDE AREA, PHASE 2, NORTH	<12.7	<0.005
10	92A10646	INSIDE AREA, PHASE 2, SOUTH	<12.7	<0.006
11	92A10647	FIELD BLANK #1	< LOD	----
12	92A10648	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: March 27, 1992 LAB.NO.: 92-05572(N1)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, JFK IA, Core Floor, VAT, Phase II

JOB #: 7021-42 (B)
SAMPLING DATE: 03/10/92
DATE RECEIVED IN LAB: 03/11/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A10629	INSIDE AREA, NORTH SIDE	<12.7	<0.003
02	92A10630	INSIDE AREA, SOUTH SIDE	<12.7	<0.003
03	92A10631	INSIDE AREA, EAST SIDE	12.74	0.003
04	92A10632	INSIDE AREA, CENTER	<12.7	<0.005
05	92A10633	INSIDE AREA, NORTH SIDE	<12.7	<0.005
06	92A10634	INSIDE AREA, SOUTH SIDE	<12.7	<0.005
07	92A10635	FIELD BLANK #1	< LOD	----
08	92A10636	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

P 726365

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0009 • FAX NO. 516-334-7721

Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: March 27, 1992 LAB.NO.: 92-05572(N1)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor, VAT, Phase II

JOB #: 7021-42 (C)
SAMPLING DATE: 03/11/92
DATE RECEIVED IN LAB: 03/13/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A11092	INSIDE AREA, NORTH SIDE	<12.7	<0.004
02	92A11093	INSIDE AREA, WEST SIDE	<12.7	<0.004
03	92A11094	INSIDE AREA, EAST SIDE	<12.7	<0.004
04	92A11095	INSIDE AREA BY DECONTAMINATION FACILITY ENTRANCE	<12.7	<0.005
05	92A11096	INSIDE AREA, NORTH SIDE	<12.7	<0.005
06	92A11097	INSIDE AREA, WEST SIDE	<12.7	<0.005
07	92A11098	FIELD BLANK #1	< LOD	----
08	92A11099	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: March 27, 1992 LAB.NO.: 92-05572(N1)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor, VAT, Phase II

JOB #: 7021-42 (D)
SAMPLING DATE: 03/12/92
DATE RECEIVED IN LAB: 03/13/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A11084	INSIDE WORK AREA, EAST SIDE	<12.7	<0.005
02	92A11085	INSIDE WORK AREA, SOUTH SIDE	<12.7	<0.005
03	92A11086	INSIDE WORK AREA, NORTH SIDE	<12.7	<0.005
04	92A11087	INSIDE WORK AREA, NORTH SIDE	<12.7	<0.006
05	92A11088	INSIDE WORK AREA, SOUTH SIDE	<12.7	<0.006
06	92A11089	INSIDE WORK AREA, ADJACENT TO DECONTAMINATION FACILITY	<12.7	<0.006
07	92A11090	FIELD BLANK #1	< LOD	----
08	92A11091	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992 LAB.NO.: 92-05572(N2)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II
JOB #: 7021-42 (A)
SAMPLING DATE: 03/13/92
DATE RECEIVED IN LAB: 03/16/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A11724	INSIDE CLEAN ROOM DECONTAMINATION FACILITY	<12.7	<0.005
02	92A11725	OUTSIDE ADJACENT TO DECONTAMINATION FACILITY ENTRANCE	<12.7	<0.005
03	92A11726	OUTSIDE AT HEPA EXHAUST	<12.7	<0.005
04	92A11727	OUTSIDE ADJACENT TO GFI PANEL	<12.7	<0.005
05	92A11728	OUTSIDE BY CRITICAL DOOR	<12.7	<0.007
06	92A11729	INSIDE CLEAN ROOM DECONTAMINATION FACILITY	<12.7	<0.007
07	92A11730	OUTSIDE ADJACENT TO DECONTAMINATION FACILITY ENTRANCE	<12.7	<0.007
08	92A11731	OUTSIDE AT HEPA EXHAUST	<12.7	<0.007
09	92A11732	OUTSIDE ADJACENT TO GFI PANEL	<12.7	<0.007
10	92A11733	OUTSIDE BY CRITICAL DOOR	<12.7	<0.007
11	92A11734	FIELD BLANK #1	< LOD	----
12	92A11735	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992 LAB.NO.: 92-05572(N2)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II
JOB #: 7021-42 (B)
SAMPLING DATE: 03/16/92
DATE RECEIVED IN LAB: 03/18/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A11987	ADJACENT TO HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.004
02	92A11988	ADJACENT TO CRITICAL DOOR	DID NOT RECEIVE	
03	92A11989	NEXT TO GFI PANEL	<12.7	<0.004
04	92A11990	OUTSIDE OF ENTRANCE TO THE DECONTAMINATION FACILITY	<12.7	<0.004
05	92A11991	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	<12.7	<0.004
06	92A11992	ADJACENT TO HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.004
07	92A11993	ADJACENT TO CRITICAL DOOR	<12.7	<0.004
08	92A11994	NEXT TO GFI PANEL	<12.7	<0.004
09	92A11995	OUTSIDE OF ENTRANCE TO THE DECONTAMINATION FACILITY	<12.7	<0.004
10	92A11996	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	<12.7	<0.004
11	92A11997	FIELD BLANK #1	< LOD	----
12	92A11998	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992 LAB.NO.: 92-05572(N2)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II
JOB #: 7021-42 (C)
SAMPLING DATE: 03/17/92
DATE RECEIVED IN LAB: 03/18/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A11999	ADJACENT TO HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.004
02	92A12000	NEXT TO CRITICAL DOOR	<12.7	<0.004
03	92A12001	ADJACENT TO GFI PANEL	<12.7	<0.004
04	92A12002	AT ENTRANCE TO THE DECONTAMINATION FACILITY	<12.7	<0.004
05	92A12003	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	22.93	0.008
06	92A12004	ADJACENT TO HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.005
07	92A12005	ADJACENT TO CRITICAL DOOR	<12.7	<0.005
08	92A12006	ADJACENT TO GFI PANEL	<12.7	<0.005
09	92A12007	AT ENTRANCE TO THE DECONTAMINATION FACILITY	<12.7	<0.005
10	92A12008	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	13.38	0.006
11	92A12009	FIELD BLANK #1	< LOD	----
12	92A12010	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992

LAB.NO.: 92-05572(N2)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II
JOB #: 7021-42 (D)
SAMPLING DATE: 03/18/92
DATE RECEIVED IN LAB: 03/19/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A12228	AT HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.005
02	92A12229	NEXT TO CRITICAL DOOR	<12.7	<0.005
03	92A12230	ADJACENT TO GFI PANEL	<12.7	<0.005
04	92A12231	OUTSIDE ENTRANCE TO DECONTAMINATION FACILITY	<12.7	<0.005
05	92A12232	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	<12.7	<0.005
06	92A12233	AT HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.005
07	92A12234	ADJACENT TO CRITICAL DOOR	<12.7	<0.005
08	92A12235	ADJACENT TO GFI PANEL	<12.7	<0.005
09	92A12236	OUTSIDE ENTRANCE TO DECONTAMINATION FACILITY	<12.7	<0.005
10	92A12237	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	<12.7	<0.005
11	92A12238	FIELD BLANK #1	< LOD	----
12	92A12239	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

P 726371

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720

Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992 LAB.NO.: 92-05572(N2)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II
JOB #: 7021-42 (E)
SAMPLING DATE: 03/20/92
DATE RECEIVED IN LAB: 03/22/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A12721	ADJACENT TO HEPA NEGATIVE AIR UNIT EXHAUST	<12.7	<0.005
02	92A12722	ADJACENT TO CRITICAL DOOR	<12.7	<0.005
03	92A12723	NEXT TO GFI PANEL	<12.7	<0.005
04	92A12724	OUTSIDE ENTRANCE TO DECONTAMINATION FACILITY	<12.7	<0.005
05	92A12725	INSIDE CLEAN ROOM OF DECONTAMINATION FACILITY	<12.7	<0.005
06	92A12726	FIELD BLANK #1	< LOD	----
07	92A12727	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992 LAB.NO.: 92-05572(N2)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bob Puorro

CLIENT'S PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II
JOB #: 7021-42 (F)
SAMPLING DATE: 03/21/92
DATE RECEIVED IN LAB: 03/22/92
FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: Hygienetics, Inc.

Applicable qualifications: NYS Department of Health Environmental Laboratory Approval Program (ELAP Identification # 10837). American Industrial Hygiene Association accredited (#333) laboratory.

The following results were obtained from our tests.

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	FILTER CONC. (FIBERS/mm^2)	(f/cc)*
01	92A12728	INSIDE WORK AREA BY DECONTAMINATION FACILITY EXIT	<12.7	<0.003
02	92A12729	INSIDE WORK AREA, NORTH SIDE	<12.7	<0.003
03	92A12730	INSIDE WORK AREA, CENTER	<12.7	<0.003
04	92A12731	INSIDE WORK AREA, SOUTH SIDE	<12.7	<0.003
05	92A127[illegible]2	INSIDE WORK AREA, WEST SIDE	<12.7	<0.003
06	92A12733	FIELD BLANK #1	< LOD	----
07	92A12734	FIELD BLANK #2	< LOD	----

< = LESS THAN

*NOTE: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Paul Calzolano
Vice President

David C. Harvey
President

lcm

Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.
Report on sample by client applies only to sample Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice

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Laboratory Testing Services

LAB.NO.: 92-05572(N2)

APPENDIX A

CHAIN OF CUSTODY RECORDS

P 726375

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720

JS921

ASBESTOS AIR SAMPLING RECORD

DATE: 3/9/92

BLDG. & PROJECT NAME: American Airlines Hanger 10 Core Floor V.A.T. Phase II

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/11/92
JOB NO.: 7021-42 BATCH NO. NY12294
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE 3/9/92 TIME COMPLETED 1330

DELIVERED TO LAB BY: Hand delivered by Bill B...
LAB NAME: L.T.S.
RECEIVED BY: Louis Alle
DATE: 3/11/92 TIME: 9:00 AM INITIALS LA
ANALYST: Louis Aller SCOPE #: MBC
DATE COMPLETED: 3/11/92 TIME 1:35
ANALYSIS METHOD: NIOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

	SAMPLE ID NO.	TYPE *	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	030992.8701	PCM-C	2	Inside work area phase 2 center
2	030992.8702	PCM-C	2	Inside work area phase 2 south
3	030992.8703	PCM-C	2	Inside area phase 2 North
4	030992.8704	PCM-C	2	Inside area phase 2 East
5	030992.8705	PCM-C	2	Inside area phase 2 West
6	030992.8706	PCM-E	2	Inside area phase 2 center
7	030992.8707	PCM-E	2	Inside area phase 2 east
8	030992.8708	PCM-E	2	Inside area phase 2 west
9	030992.8709	PCM-E	2	Inside area phase 2 North
10	030992.8710	PCM-E	2	Inside area phase 2 South
11	030992.8711	PCM-I	2	Field Blank #1
12	030992.8712	PCM-I	2	Field Blank #2

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	LTS FILTER ID NO	FLOW METER ID. NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	OTHER CONTENTS FIBER
1	10637	02274	11.4	11.4	11.4	0700	0840	100	1140					<0.004	
2	10638	02274	11.4	11.4	11.4	0700	0840	100	1140					<0.004	
3	10639	02274	11.4	11.4	11.4	0700	0840	99	1128.6					<0.004	
4	10640	02274	11.4	11.4	11.4	0700	0840	99	1128.6					<0.004	
5	10641	02274	11.4	11.4	11.4	0702	0840	98	1117.2					<0.004	
6	10642	02274	11.4	11.4	11.4	1210	1330	80	912					<0.005	
7	10643	02274	11.4	11.4	11.4	1210	1330	80	912					<0.005	
8	10644	02274	11.4	11.4	11.4	1211	1330	79	900.6					<0.005	
9	10645	02274	11.4	11.4	11.4	1211	1330	79	900.6					<0.005	
10	10646	02274	11.4	11.4	11.4	1212	1330	78	889.2					<0.006	
	10647		B	C	A	N	K	#1						<LOQ	
	10648		B	C	A	N	K	#2						<LOQ	

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D = OUTSIDE WORK AREA
- E = INSIDE WORK AREA
- F AIR QUALITY/ENVIRONMENTAL
- G HEPA EXHAUST DISCHARGE
- H = DECONTAMINATION FACILITY
- I = BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 = PREABATEMENT BACKGROUND
- 2 = PREPARATION OF WORK AREA
- 3 ASBESTOS REMOVAL WORK
- 4 = CLEAN UP OF WORK AREA
- 5 = WASTE REMOVAL
- 6 = GLOVE BAG REMOVAL WORK
- 7 = WORK AREA CLEARANCE
- 8 = MAINTENANCE ACTIVITY
- 9 = ACBM REPAIR ACTIVITY
- 10 = ACBM ENCAPSULATION OR ENCLOSURE
- 11 = CLEANING OR DECONTAMINATION
- 12 = NOT APPLICABLE

AXIS

CLIENT BILLING INSTRUCTIONS: SAMPLES @ $ _____ $

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P 726376

J5920

ASBESTOS AIR SAMPLING RECORD

DATE: 3/10/92

BLDG. & PROJECT NAME: American Air-Lines Hangar 10 JFK IA, Core Floor VAT phase II

	SAMPLE ID NO	TYPE *	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	031092 18401	PCM-E	2	Inside area North Side
2	031092 18402	PCM-E	2	Inside area South Side
3	031092 18403	PCM-E	2	Inside area East Side
4	031092 18404	PCM-E	2	Inside area Center
5	031092 18405	PCM-E	2	Inside area North Side
6	031092 18406	PCM-E	2	Inside area South Side
7	031092 18407	PCM-I	2	Field Blank #2
8	031092 18408	PCM-I	2	Field Blank #2
9				
10				

ACCOUNTABILITY RECORD

PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/12/92
JOB NO: 7021-42 BATCH NO: NY 12295
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE: 3/10/92 TIME COMPLETED: 1430

DELIVERED TO LAB BY: Hand delivered by Bill Birnbaum
LAB NAME: C.T.S.
RECEIVED BY: Louis Aller
DATE: 3/11/92 TIME: 8:52 INITIALS: LA
ANALYST: Louis Aller SCOPE #: MIC
DATE COMPLETED: 3/11/92 TIME: 1:41
ANALYSIS METHOD: NIOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	ZOJ PUMP ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	OTHER CONCENTRATION UNIT
1	10629	02274	10.6	10.6	10.6	0905	1200	175	1855					<0.005	
2	10630	02274	10.6	10.6	10.6	0905	1200	175	1855					<0.005	
3	10631	02274	10.6	10.6	10.6	0905	1200	175	1855					0.005	
4	10632	02274	10.6	10.6	10.6	1300	1435	95	1007					<0.005	
5	10633	02274	10.6	10.6	10.6	1300	1435	95	1007					<0.005	
6	10634	02274	10.6	10.6	10.6	1300	1435	95	1007					0.005	
7	10635	~~[illegible]~~	B	L	A	N	K	#1	—					<LOQ	
8	10636	~~[illegible]~~	B	L	A	N	K	#2	—					<LOQ	
9															
10															

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM = PHASE CONTRAST MICROSCOPY
- TEM = TRANSMISSION ELECTRON MICROSCOPY
- SEM = SCANNING ELECTRON MICROSCOPY
- A = PERSONAL EXPOSURE SAMPLE
- B = WORK AREA CLEARANCE
- C = PREABATEMENT BACKGROUND
- D = OUTSIDE WORK AREA
- E = INSIDE WORK AREA
- F = AIR QUALITY/ENVIRONMENTAL
- G = HEPA EXHAUST DISCHARGE
- H = DECONTAMINATION FACILITY
- I = BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 = PREABATEMENT BACKGROUND
- 2 = PREPARATION OF WORK AREA
- 3 = ASBESTOS REMOVAL WORK
- 4 = CLEAN UP OF WORK AREA
- 5 = WASTE REMOVAL
- 6 = GLOVE BAG REMOVAL WORK
- 7 = WORK AREA CLEARANCE
- 8 = MAINTENANCE ACTIVITY
- 9 = ACBM REPAIR ACTIVITY
- 10 = ACBM ENCAPSULATION OR ENCLOSURE
- 11 = CLEANING OR DECONTAMINATION
- 12 = NOT APPLICABLE

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CLIENT BILLING INSTRUCTIONS: ____ SAMPLES @ $ _____ = $

P 726377

J6116

ASBESTOS AIR SAMPLING RECORD

DATE: 3/11/92

BLDG. & PROJECT NAME: American Airlines Hangar 10, Core Floor VCT Phase II

	SAMPLE ID NO	TYPE *	ACTIVITY **	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	03119218401	PCM-E	2	Inside area North Side
2	03119218402	PCM-E	2	Inside area West Side
3	03119218403	PCM-E	2	Inside area East Side
4	03119218404	PCM-E	2	Inside area by Decontamination Facility Entrance
5	03119218405	PCM-E	2	Inside area North Side
6	03119218406	PCM-E	2	Inside area West Side
7	03119218407	PCM-I	2	Field Blank #1
8	03119218408	PCM-I	2	Field Blank #2
9				
10				

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/13/92
JOB NO.: 7021-42 BATCH NO. NY12303
CLIENT NAME: American Air Lines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE: 3/11/92 TIME COMPLETED:

DELIVERED TO LAB BY: Hand delivered by Bill B...
LAB NAME: L.T.S.
RECEIVED BY: Louis Allen
DATE: 3/13/92 TIME 9:30 AM INITIALS: LA
ANALYST: Louis Allen SCOPE #: M...
DATE COMPLETED: 3/13/92 TIME 11:47
ANALYSIS METHOD: NIOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	FILTER ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1	11092	02274	10.6	10.6	10.6	0915	1115	120	1272					<0.004	
2	11093	02274	10.6	10.6	10.6	0916	1115	119	1261.4					<0.004	
3	11094	02274	10.6	10.6	10.6	0916	1115	119	1261.4					<0.004	
4	11095	02274	10.6	10.6	10.6	1300	1430	90	954					<0.005	
5	11096	02274	10.6	10.6	10.6	1300	1430	90	954					<0.005	
6	11097	02274	10.6	10.6	10.6	1301	1430	89	943.4					<0.005	
7	11098	—	B	L	A	N	K	#1	—					<0.00	
8	11099	—	B	L	A	N	K	#2	—					<0.00	
9															
10															

SPECIAL COMMENTS

* SAMPLE TYPE CODES

PCM PHASE CONTRAST MICROSCOPY
TEM TRANSMISSION ELECTRON MICROSCOPY
SEM SCANNING ELECTRON MICROSCOPY
A - PERSONAL EXPOSURE SAMPLE
B - WORK AREA CLEARANCE
C PREABATEMENT BACKGROUND
D - OUTSIDE WORK AREA
E - INSIDE WORK AREA
F - AIR QUALITY/ENVIRONMENTAL
G - HEPA EXHAUST DISCHARGE
H - DECONTAMINATION FACILITY
I = BLANK SAMPLE

** WORK AREA ACTIVITY CODES

1 - PREABATEMENT BACKGROUND
2 PREPARATION OF WORK AREA
3 = ASBESTOS REMOVAL WORK
4 = CLEAN UP OF WORK AREA
5 = WASTE REMOVAL
6 = GLOVE BAG REMOVAL WORK
7 - WORK AREA CLEARANCE
8 MAINTENANCE ACTIVITY
9 ACBM REPAIR ACTIVITY
10 - ACBM ENCAPSULATION OR ENCLOSURE
11 - CLEANING OR DECONTAMINATION
12 - NOT APPLICABLE

AXIS

CLIENT BILLING INSTRUCTIONS. SAMPLES @ $ $

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P 726378

J6115

ASBESTOS AIR SAMPLING RECORD

DATE: 3/12/92

BLDG. & PROJECT NAME: American Airlines Hangar 10, Core Floor VAT Phase II

	SAMPLE ID NO	TYPE *	ACTIVITY **	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	03129218401	PCM-E	2	Inside work area East Side
2	03129218402	PCM-E	2	Inside work area South Side
3	03129218403	PCM-E	2	Inside work area North Side
4	03129218404	PCM-E	2	Inside work area North Side
5	03129218405	PCM-E	2	Inside work area South Side
6	03129218406	PCM-E	2	Inside work area adjacent to Decontamination Facility
7	03129218407	PCM-E	2	Field Blank #1
8	03129218408	PCM-E	2	Field Blank #2
9				
10				

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/14/92
JOB NO.: 7021-42 BATCH NO. NY12315
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Bumba
SIGNATURE: Bill Bumba
DATE 3/12/92 TIME COMPLETED 1410

DELIVERED TO LAB BY Hand delivered by Bill Bumba
LAB NAME C.T.S.
RECEIVED BY: Louis Allen
DATE: 3/13/92 TIME: 7:30 INITIALS: LA
ANALYST: Louis Allen SCOPE #: [illegible]
DATE COMPLETED: 3/13/92 TIME: 11:17
ANALYSIS METHOD: NJOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	PUMP ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1	11084	02274	10.6	10.6	10.6	0910	1045	95	1007					<0.005	
2	11085	02274	10.6	10.6	10.6	0910	1045	95	1007					<0.005	
3	11086	02274	10.6	10.6	10.6	0911	1045	94	996.4					<0.005	
4	11087	02274	10.6	10.6	10.6	1248	1410	82	869.2					<0.006	
5	11088	02274	10.6	10.6	10.6	1250	1410	80	848					<0.006	
6	11089	02274	10.6	10.6	10.6	1250	1410	80	848					<0.006	
7	11090	—	B	L	A	N	K	#2	—					<0.02	
8	11091	—	B	L	A	N	K	#2	—					<0.02	
9															
10															

SPECIAL COMMENTS

* SAMPLE TYPE CODES

PCM PHASE CONTRAST MICROSCOPY
TEM TRANSMISSION ELECTRON MICROSCOPY
SEM SCANNING ELECTRON MICROSCOPY
A = PERSONAL EXPOSURE SAMPLE
B = WORK AREA CLEARANCE
C = PREABATEMENT BACKGROUND
D = OUTSIDE WORK AREA
E = INSIDE WORK AREA
F = AIR QUALITY/ENVIRONMENTAL
G = HEPA EXHAUST DISCHARGE
H = DECONTAMINATION FACILITY
I = BLANK SAMPLE

** WORK AREA ACTIVITY CODES

1 = PREABATEMENT BACKGROUND
2 = PREPARATION OF WORK AREA
3 = ASBESTOS REMOVAL WORK
4 = CLEAN UP OF WORK AREA
5 = WASTE REMOVAL
6 = GLOVE BAG REMOVAL WORK
7 = WORK AREA CLEARANCE
8 = MAINTENANCE ACTIVITY
9 = ACBM REPAIR ACTIVITY
10 = ACBM ENCAPSULATION OR ENCLOSURE
11 = CLEANING OR DECONTAMINATION
12 = NOT APPLICABLE

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CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

P 726379

J6322

55 72(N2)/1-1

ASBESTOS AIR SAMPLING RECORD

DATE: 3/13/92

BLDG. & PROJECT NAME: American Airlines, Hangar 10, Core Floor VAT Phase II

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE:
JOB NO.: 7021-92 BATCH NO: NY12335
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Brandon
SIGNATURE: Bill Brandon
DATE: 3/13/92 TIME COMPLETED: 1510

DELIVERED TO LAB BY: Hand Delivered
LAB NAME: L.A.S.
RECEIVED BY:
DATE: TIME: INITIALS
ANALYST: [illegible] SCOPE #: [illegible]
DATE COMPLETED: 3/16/92 TIME
ANALYSIS METHOD: NIOSH 7400 (A&B)

APPROVAL SIGNATURE (PROJECT MANAGER)

	SAMPLE ID NO	TYPE*	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	03/13/92 B401	PCM D	2	Inside Clean Room Decontamination Facility
2	03/13/92 B402	PCM D	2	Outside adjacent to Decontamination Facility Entrance
3	03/13/92 B403	PCM D	2	Outside at HEPA Exhaust
4	03/13/92 B404	PCM D	2	Outside adjacent to G.F.E. Panel
5	03/13/92 B405	PCM D	2	Outside by critical Doc
6	03/13/92 B406	PCM D	2	Inside Clean Room Decontamination Facility
7	03/13/92 B407	PCM D	2	Outside adjacent to Decontamination Facility Entrance
8	03/13/92 B408	PCM D	2	Outside at HEPA Exhaust
9	03/13/92 B409	PCM D	2	Outside adjacent to G.F.E. Panel
10	03/13/92 B410	PCM D	2	Outside by critical Doc
11	03/13/92 B411	PCM D	2	Field Blank #2
12	03/13/92 B412	PCM D	2	Field Blank #2

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	MEDIA ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYSTS CV	LOQ	FIBERS PER CC	MEDIA CONDITION CODE
1	11729	02274	2.5	2.5	2.5	1015	1230	135	1012.5					<0.005	
2	11730	02274	2.5	2.5	2.5	1015	1230	135	1012.5					<0.005	
3	11726	02274	2.5	2.5	2.5	1017	1230	133	997.5					<0.005	
4	11727	02274	2.5	2.5	2.5	1017	1230	133	997.5					<0.005	
5	11728	02274	2.5	2.5	2.5	1018	1230	132	990					<0.007	
6	11731	02274	2.5	2.5	2.5	1335	1510	95	712.5					<0.007	
7	11736	02274	2.5	2.5	2.5	1336	1510	94	705					<0.007	
8	11734	02274	2.5	2.5	2.5	1338	1510	92	690					<0.007	
9	11732	02274	2.5	2.5	2.5	1340	1510	90	675					<0.007	
10	11733	02274	2.5	2.5	2.5	1340	1510	90	675					<0.007	
11	11737		B	C	A	N	R	72						<0.00	
12	11735		B	C	A	N	R	72						<0.00	

TAX

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A - PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D OUTSIDE WORK AREA
- E INSIDE WORK AREA
- F - AIR QUALITY/ENVIRONMENTAL
- G - HEPA EXHAUST DISCHARGE
- H - DECONTAMINATION FACILITY
- I - BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 - PREABATEMENT BACKGROUND
- 2 - PREPARATION OF WORK AREA
- 3 - ASBESTOS REMOVAL WORK
- 4 - CLEAN UP OF WORK AREA
- 5 - WASTE REMOVAL
- 6 - GLOVE BAG REMOVAL WORK
- 7 WORK AREA CLEARANCE
- 8 MAINTENANCE ACTIVITY
- 9 ACBM REPAIR ACTIVITY
- 10 ACBM ENCAPSULATION OR ENCLOSURE
- 11 - CLEANING OR DECONTAMINATION
- 12 - NOT APPLICABLE

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CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

P 726380

ASBESTOS AIR SAMPLING RECORD

DATE: 3/16/92

BLDG. & PROJECT NAME: American Airlines Hangar 10 JFKIA, Co-Flow VAT project

	SAMPLE ID NO	TYPE*	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	03/6/92/5901	PCM-C	2	Adjacent to HEPA (NAU) Exhaust
2	03/6/92/5902	PCM-C	2	Adjacent to Critical door
3	03/6/92/5903	PCM-C	2	next to GFI Panel
4	03/6/92/5904	PCM-C	2	Outside of Entrance to the Decontamination Facility
5	03/6/92/5905	PCM-C	2	Inside clean Room of Decontamination Facility
6	03/6/92/5906	PCM-C	2	Adjacent to HEPA (NAU) Exhaust
7	03/6/92/5907	PCM-C	2	Adjacent to critical Door
8	03/6/92/5908	PCM-C	2	next to GFI Panel
9	03/6/92/5909	PCM-C	2	Outside of Entrance to the Decontamination Facility
10	03/6/92/5910	PCM-C	2	Inside Clean Room of Decontamination Facility
11	03/6/92/5911	PCM-I	2	Field Blank #1
12	03/6/92/5912	PCM-I	2	Field Blank #2

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/17/92
JOB NO.: 7021-92 BATCH NO.: NY12334
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE: 3/16/92 TIME COMPLETED 1415

DELIVERED TO LAB BY: Hand Delivered By Bill Birnbaum
LAB NAME L.T.S.
RECEIVED BY: Louis Allen
DATE: 3/18/92 TIME noon INITIALS
ANALYST: Louis Allen SCOPE #: Allen
DATE COMPLETED 3/19/92 TIME 1205
ANALYSIS METHOD NIOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	PUMP ID NO	FLOWMETER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	95% CONFIDENCE LIMIT
1	11987	02279	7.5	7.5	7.5	0746	1015	149	1117.5					<0.004	
2	11985	02279	7.5	7.5	7.5	0747	1015	148	1110				DID	<0.004	NOT REQUIRED
3	11989	02279	7.5	7.5	7.5	0747	1015	148	1110					<0.004	
4	11990	02279	7.5	7.5	7.5	0748	1015	147	1102.5					<0.004	
5	11991	02279	7.5	7.5	7.5	0748	1015	147	1102.5					<0.004	
6	11992	02279	7.5	7.5	7.5	1145	1415	150	1125					<0.004	
7	11993	02279	7.5	7.5	7.5	1146	1415	149	1117.5					<0.004	
8	11994	02279	7.5	7.5	7.5	1147	1415	148	1110					<0.004	
9	11995	02279	7.5	7.5	7.5	1147	1415	148	1110					<0.004	
10	11996	02279	7.5	7.5	7.5	1148	1415	147	1102.5					<0.004	
11	11997		B	C	A	N	K	#1						<LOQ	
12	11998		B	C	A	N	K	#2						<LOQ	

SPECIAL COMMENTS:

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D OUTSIDE WORK AREA
- E INSIDE WORK AREA
- F AIR QUALITY/ENVIRONMENTAL
- G HEPA EXHAUST DISCHARGE
- H DECONTAMINATION FACILITY
- I BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 PREABATEMENT BACKGROUND
- 2 PREPARATION OF WORK AREA
- 3 ASBESTOS REMOVAL WORK
- 4 CLEAN UP OF WORK AREA
- 5 WASTE REMOVAL
- 6 GLOVE BAG REMOVAL WORK
- 7 WORK AREA CLEARANCE
- 8 MAINTENANCE ACTIVITY
- 9 ACBM REPAIR ACTIVITY
- 10 ACBM ENCAPSULATION OR ENCLOSURE
- 11 CLEANING OR DECONTAMINATION
- 12 NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

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P 726381

JL1426

ASBESTOS AIR SAMPLING RECORD

DATE: 3/17/92

BLDG. & PROJECT NAME: American Airlines J.F.K. Hangar 10, Core Floor VAT Phase II

	SAMPLE I.D. NO	TYPE *	ACTIVITY **	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	03179218401	AM-D	3	Adjacent to HEPA (NAUS) Exhaust
2	03179218402	AM-D	3	next to critical door
3	03179218403	AM-D	3	Adjacent to G.F.I. panel
4	03179218404	AM-D	3	At Entrance to the Decontamination Facility
5	03179218405	AM-D	3	Inside Clean Room of Decontamination Facility
6	03179218406	AM-D	3	Adjacent to HEPA (NAUS) Exhaust
7	03179218407	AM-D	3	Adjacent to critical door
8	03179218408	AM-D	3	Adjacent to G.F.I. panel
9	03179218409	AM-D	3	At Entrance to the Decontamination Facility
10	03179218410	AM-D	3	Inside Clean Room of Decontamination Facility
11	03179218411	AM-I	3	Field Blank #1
12	03179218412	AM-I	3	Field Blank #2

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/18/92
JOB NO: 7021-42 BATCH NO: NY12336
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Birnbaum
SIGNATURE: Bill Birnbaum
DATE: 3/17/92 TIME COMPLETED
DELIVERED TO LAB BY: Hand delivered by B.A.
LAB NAME: L.T.S.
RECEIVED BY: Louis Allen
DATE: 3/18/92 TIME 8:00 INITIALS
ANALYST: Louis Allen SCOPE #: Allen
DATE COMPLETED: 3/18/92 TIME
ANALYSIS METHOD: NIOSH 7400
APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA: _____ MM²; FIELD AREA _____ MM²

	PUMP I.D. NO.	FLOW METER I.D. NO.	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	DILUTED FIBERS PER CC
1	11171	02274	2.5	2.5	2.5	0755	1025	150	1125					<0.007	
2	12000	02274	2.5	2.5	2.5	0756	1025	149	1117.5					<0.007	
3	12001	02274	2.5	2.5	2.5	0756	1025	149	1117.5					<0.007	
4	12002	02274	2.5	2.5	2.5	0758	1025	147	1102.5					<0.007	
5	12003	02274	2.5	2.5	2.5	0758	1025	147	1102.5					0.008	
6	12004	02274	2.5	2.5	2.5	1225	1530	125	937.5					<0.005	
7	12005	02274	2.5	2.5	2.5	1226	1530	124	930					<0.005	
8	12006	02274	2.5	2.5	2.5	1226	1530	124	930					<0.005	
9	12007	02274	2.5	2.5	2.5	1227	1530	123	922.5					<0.005	
10	12008	02274	2.5	2.5	2.5	1227	1530	123	922.5					0.006	
11	12009		B	L	A	N	K	#1						<LOQ	
12	12010		B	L	A	N	K	#2						<LOQ	

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D OUTSIDE WORK AREA
- E INSIDE WORK AREA
- F AIR QUALITY/ENVIRONMENTAL
- G HEPA EXHAUST DISCHARGE
- H - DECONTAMINATION FACILITY
- I - BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 - PREABATEMENT BACKGROUND
- 2 - PREPARATION OF WORK AREA
- 3 - ASBESTOS REMOVAL WORK
- 4 - CLEAN UP OF WORK AREA
- 5 - WASTE REMOVAL
- 6 - GLOVE BAG REMOVAL WORK
- 7 - WORK AREA CLEARANCE
- 8 - MAINTENANCE ACTIVITY
- 9 - ACBM REPAIR ACTIVITY
- 10 - ACBM ENCAPSULATION OR ENCLOSURE
- 11 - CLEANING OR DECONTAMINATION
- 12 - NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

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P 726382

ASBESTOS AIR SAMPLING RECORD

DATE: 3/18/92

BLDG. & PROJECT NAME: American Airlines Hanger 10 JFK, Core Floor MAT Chase II

	SAMPLE ID NO	TYPE *	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	03/892/8401	Am-D	3	At HEPA (NAUS) Exhaust
2	03/892/8402	Am-D	3	Adjacent to Critical Door
3	03/892/8403	Am-D	3	Adjacent to GFI Panel
4	03/892/8404	Am-D	3	Outside Entrance to Decontamination Facility
5	03/892/8405	Am-D	3	Inside Clean Room of Decontamination Facility
6	03/892/8406	Am-D	5	At HEPA (NAUS) Exhaust
7	03/892/8407	Am-D	5	Adjacent to Critical Door
8	03/892/8408	Am-D	5	Adjacent to GFI Panel
9	03/892/8409	Am-D	5	Outside Entrance to Decontamination Facility
10	03/892/8410	Am-D	5	Inside Clean Room of Decontamination Facility
11	03/892/8411	Am-I	3	Field Blank #2
12	03/892/8412	Am-I	3	Field Blank #2

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE 3/20/92
JOB NO 2021-92 BATCH NO N912344
CLIENT NAME American Airlines
SAMPLER'S NAME Bill Birnbaum
SIGNATURE Bill Birnbaum
DATE 3/18/92 TIME COMPLETED

DELIVERED TO LAB BY Hand Delivered by B.B.
LAB NAME L.T.S
RECEIVED BY [illegible]
DATE 3/19/92 TIME 8:40 INITIALS [illegible]
ANALYST [illegible] SCOPE # B11
DATE COMPLETED 3/19/92 TIME
ANALYSIS METHOD 7400 (PCM)

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA ____ MM²; FIELD AREA ____ MM²

	PUMP ID NO	FLOWMETER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	HOURS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	FIELD FIBERS PER CC
1	12225	02274	7.5	7.5	7.5	0805	1025	140	1050					<0.005	
2	12229	02274	7.5	7.5	7.5	0806	1025	139	1042.5					<0.005	
3	12230	02274	7.5	7.5	7.5	0806	1025	139	1042.5					<0.005	
4	12231	02274	7.5	7.5	7.5	0809	1025	136	1020					<0.005	
5	12232	02274	7.5	7.5	7.5	0809	1025	136	1020					<0.005	
6	12233	02274	7.5	7.5	7.5	1245	1510	145	1087.5					<0.005	
7	12234	02274	7.5	7.5	7.5	1246	1510	144	1080					<0.005	
8	12235	02274	7.5	7.5	7.5	1247	1510	143	1072.5					<0.005	
9	12236	02274	7.5	7.5	7.5	1248	1510	142	1065					<0.005	
10	12237	02274	7.5	7.5	7.5	1248	1510	142	1065					<0.005	
11	12238		B	C	A	N	K	#2						<LOQ	
12	12239		B	C	A	N	K	#2						<LOQ	

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D OUTSIDE WORK AREA
- E INSIDE WORK AREA
- F AIR QUALITY/ENVIRONMENTAL
- G HEPA EXHAUST DISCHARGE
- H DECONTAMINATION FACILITY
- I BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 PREABATEMENT BACKGROUND
- 2 PREPARATION OF WORK AREA
- 3 ASBESTOS REMOVAL WORK
- 4 CLEAN UP OF WORK AREA
- 5 WASTE REMOVAL
- 6 GLOVE BAG REMOVAL WORK
- 7 WORK AREA CLEARANCE
- 8 MAINTENANCE ACTIVITY
- 9 ACBM REPAIR ACTIVITY
- 10 ACBM ENCAPSULATION OR ENCLOSURE
- 11 CLEANING OR DECONTAMINATION
- 12 NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

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P 726383

J6132

ASBESTOS AIR SAMPLING RECORD

DATE: 3/20/92

BLDG. & PROJECT NAME: American Airlines J.F.K. Hangar 10 Core Floor VAT [illegible]

	SAMPLE I.D. NO	TYPE *	ACTIVITY **	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	032092 18401	PCM-D	3	Adjacent to HEPA (NAVS) Exhaust
2	032092 18402	PCM-D	3	Adjacent to Critical Door
3	032092 18403	PCM-D	3	next to G.F.I. Panel
4	032092 18404	PCM-D	3	Outside Entrance to Decontamination Facility
5	032092 18405	PCM-D	3	Inside Clean Room of Decontamination Facility
6	032092 18406	PCM-I	3	Field Blank #1
7	032092 18407	PCM-I	3	Field Blank #2
8				
9				
10				

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE 3/22/92
JOB NO: 7021-42 BATCH NO.
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Brinkman
SIGNATURE: Bill Brinkman
DATE: 3/20/92 TIME COMPLETED 1015

DELIVERED TO LAB BY Hand delivered by Bill
LAB NAME: L.T.S.
RECEIVED BY Louis Allen
DATE: 3/22/92 TIME: 5:45 INITIALS: LA
ANALYST: Louis Allen SCOPE #: MK
DATE COMPLETED 3/22/92 TIME 9:[illegible]
ANALYSIS METHOD: NIOSH 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	PUMP I.D. NO	FLOW METER I.D. NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1	12721	02274	7.5	7.5	7.5	0800	1015	135	1012.5					<0.005	
2	12722	02274	7.5	7.5	7.5	0801	1015	134	1005					<0.005	
3	12723	02274	7.5	7.5	7.5	0802	1015	133	997.5					<0.005	
4	12724	02274	7.5	7.5	7.5	0802	1015	133	997.5					<0.005	
5	12725	02274	7.5	7.5	7.5	0801	1015	134	982.5					<0.005	
6	12726		B	L	A	N	K	#2						<LOQ	
7	12727		B	L	A	N	K	#2						<LOQ	
8															
9															
10															

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D OUTSIDE WORK AREA
- E INSIDE WORK AREA
- F AIR QUALITY/ENVIRONMENTAL
- G HEPA EXHAUST DISCHARGE
- H DECONTAMINATION FACILITY
- I BLANK SAMPLE

** WORK AREA ACTIVITY CODES

- 1 PREABATEMENT BACKGROUND
- 2 PREPARATION OF WORK AREA
- 3 ASBESTOS REMOVAL WORK
- 4 CLEAN UP OF WORK AREA
- 5 WASTE REMOVAL
- 6 GLOVE BAG REMOVAL WORK
- 7 WORK AREA CLEARANCE
- 8 MAINTENANCE ACTIVITY
- 9 ACBM REPAIR ACTIVITY
- 10 ACBM ENCAPSULATION OR ENCLOSURE
- 11 CLEANING OR DECONTAMINATION
- 12 NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

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P 726384

J6733

ASBESTOS AIR SAMPLING RECORD

DATE: 3/21/92

BLDG. & PROJECT NAME: American Airlines JFK Hangar 10, Core Floor VAT Phase II

	SAMPLE ID NO	TYPE *	ACTIVITY **	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1	032292 18401	PCM B	7	Inside work area by Decontamination Facility [illegible]
2	032292 18402	PCM B	7	Inside work area north Side
3	032292 18403	PCM B	7	Inside work area Center
4	032292 18404	PCM B	7	Inside work area South Side
5	032292 18405	PCM B	7	Inside work area West Side
6	032292 18406	PCM B	7	Field Blank #1
7	032292 18407	PCM B	7	Field Blank #2
8				
9				
10				

ACCOUNTABILITY RECORD PAGE 1 OF 1

REQUESTED COMPLETION DATE: 3/21/92
JOB NO: 7021-92 PATCH NO
CLIENT NAME: American Airlines
SAMPLER'S NAME: Bill Brenton
SIGNATURE: Bill Brenton
DATE: 3/21/92 TIME COMPLETED

DELIVERED TO LAB BY: Hand delivered by Bill B[illegible]
LAB NAME: L.T.S.
RECEIVED BY: Louis Allen
DATE: 3/22/92 TIME: 8:45 INITIALS: LA
ANALYST: Louis Allen SCOPE #: Nikon
DATE COMPLETED: 3/22/92 TIME: 9:[illegible]
ANALYSIS METHOD: Nash 7400

APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

	PUMP ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM) START	STOP	AVERAGE	SAMPLING TIME START	STOP	TOTAL	VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE BLANK COUNT	ANALYST'S CV	LOQ	FIBERS PER CC	UPPER CONFIDENCE LIMIT
1	12728	02274	13.3	13.3	13.3	0115	0340	145	1928.5					<0.003	
2	12729	02274	13.3	13.3	13.3	0116	0340	144	1915.2					<0.003	
3	12730	02274	13.3	13.3	13.3	0116	0340	144	1915.2					<0.003	
4	12731	02274	13.3	13.3	13.3	0117	0340	143	1901.9					<0.003	
5	12732	02274	13.3	13.3	13.3	0117	0340	143	1901.9					<0.003	
6	12733		B	L	A	N	K	#1						<LOD	
7	12734		B	L	A	N	K	#2						<LOD	
8															
9															
10															

SPECIAL COMMENTS: Clearance Samples - Fax Results to 212-983-8796 - RUSH!!

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SEM SCANNING ELECTRON MICROSCOPY
- A PERSONAL EXPOSURE SAMPLE
- B WORK AREA CLEARANCE
- C PREABATEMENT BACKGROUND
- D OUTSIDE WORK AREA
- E INSIDE WORK AREA
- F AIR QUALITY/ENVIRONMENTAL
- G HEPA EXHAUST DISCHARGE
- H DECONTAMINATION FACILITY
- I BLANK SAMPLE

** WORK AREA ACTIVITY CODES

1. PREABATEMENT BACKGROUND
2. PREPARATION OF WORK AREA
3. ASBESTOS REMOVAL WORK
4. CLEAN UP OF WORK AREA
5. WASTE REMOVAL
6. GLOVE BAG REMOVAL WORK
7. WORK AREA CLEARANCE
8. MAINTENANCE ACTIVITY
9. ACBM REPAIR ACTIVITY
10. ACBM ENCAPSULATION OR ENCLOSURE
11. CLEANING OR DECONTAMINATION
12. NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS SAMPLES @ $ $

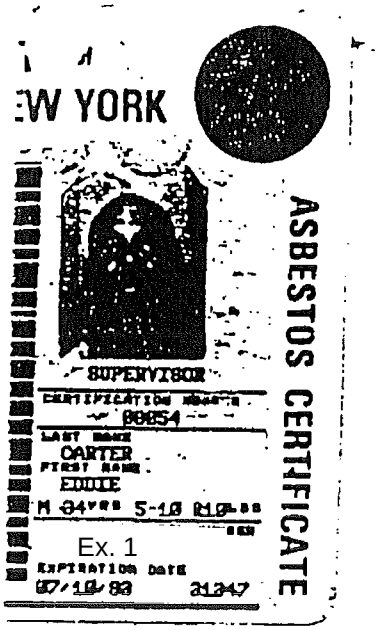
[illegible] LAST REVISED

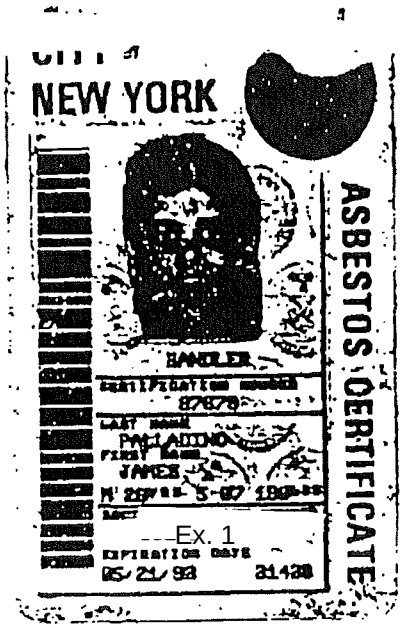
P 726385

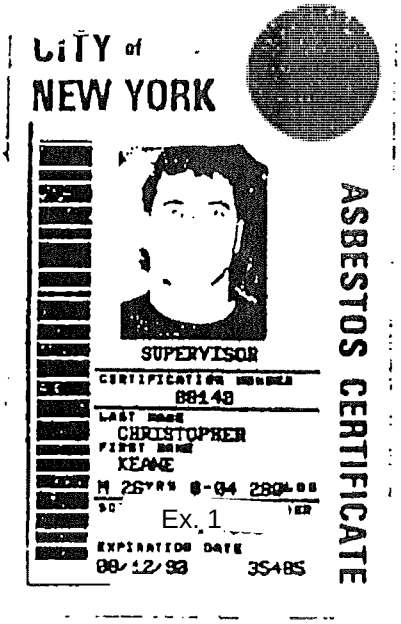
ATTACHMENT C
N.A.C. Worker Submittals

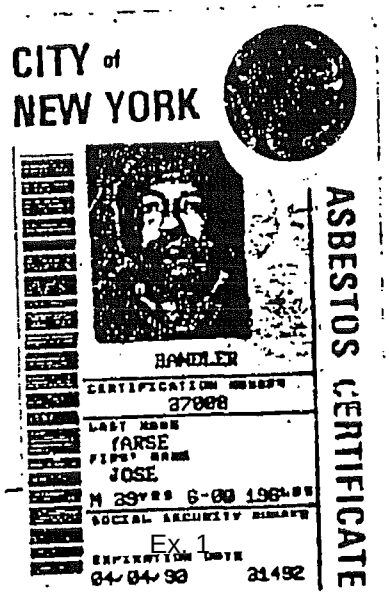
American Airlines
JFK International Airport
Jamaica, New York 11430

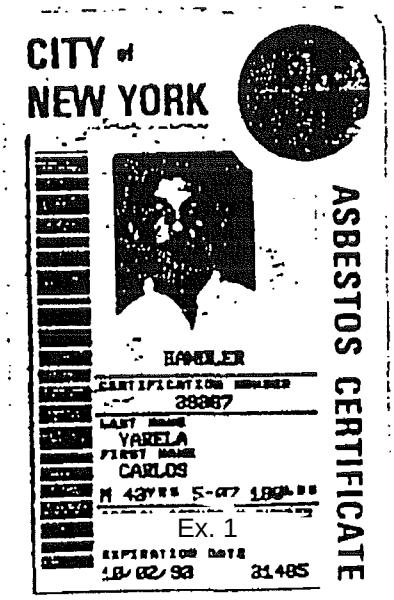
P 726386


W YORK
ASBESTOS CERTIFICATE
SUPERVISOR
CERTIFICATION NUMBER
00054
LAST NAME
CARTER
FIRST NAME
EDDIE
M 34YRS 5-10 210LBS
Ex. 1
EXPIRATION DATE
07/10/93
31347

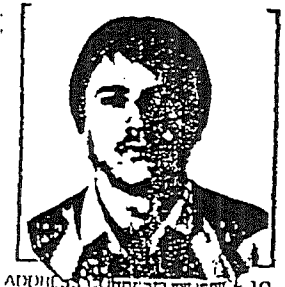

NEW YORK
ASBESTOS CERTIFICATE
HANDLER
CERTIFICATION NUMBER
37878
LAST NAME
PALLADINO
FIRST NAME
JAMES
M 28YRS 5-07 190LBS
Ex. 1
EXPIRATION DATE
05/21/93
31438


CITY of
NEW YORK
ASBESTOS CERTIFICATE
SUPERVISOR
CERTIFICATION NUMBER
88148
LAST NAME
CHRISTOPHER
FIRST NAME
KEANE
M 26YRS 6-04 280LBS
Ex. 1
EXPIRATION DATE
08/12/93
35485


CITY of
NEW YORK
ASBESTOS CERTIFICATE
HANDLER
CERTIFICATION NUMBER
37008
LAST NAME
TARSE
FIRST NAME
JOSE
M 39YRS 6-00 196LBS
SOCIAL SECURITY NUMBER
Ex. 1
EXPIRATION DATE
04/04/93
31492


CITY of
NEW YORK
ASBESTOS CERTIFICATE
HANDLER
CERTIFICATION NUMBER
38387
LAST NAME
YARELA
FIRST NAME
CARLOS
M 43YRS 5-07 180LBS
Ex. 1
EXPIRATION DATE
10/02/93
31485

MUST BE CARRIED ON ASBESTOS PROJECTS



CERTIFICATE NUMBER	AH 88-00277
EXPIRES	
SOCIAL SECURITY NUMBER	Ex. 1
EYES	BRO
HAIR	BRO
WEIGHT	155 lbs.
HEIGHT	5 ft. 05 in.

ADDRESS CORRESPONDENCE TO
(include certificate number)
NYS Department of Labor
DOSH License and Certificate Unit
One Main Street, Brooklyn, NY 11201-

SOCIAL SECU

Ex. 1

CICERON ORTIZ

P 726388

RESIDENT ALIEN

U.S. Department of Justice-Immigration and Naturalization Ser

ORTIZ, CICERON DE JESUS

MEMBERSHIP CARD

LABORERS' INTERNATIONAL UNION OF NORTH AMERICA

ANGELO FOSCO

ARTHUR A. COIA

Ex. 1

1991

Ex. 1

3000746

Ex. 1

CITY of NEW YORK

BANDLER

CERTIFICATION NUMBER 38798

LAST NAME ORTIZ

FIRST NAME CICERON

M 22 YRS 5-08 155 LBS

Ex. 1

EXPIRATION DATE 08/12/93 48233

ASBESTOS CERTIFICATE

ASTORIA INDUSTRIES, IN

NAME

CICERON ORTI

SOCIAL SECURITY NO

Ex. 1

CERTIFICATE NO.

L-91-3313

EXPIRATION DATE

3-28-92

MASON TENDF LEAD
ABATEMENT TRAINING PROGRAI

P 726389

SOCIAL SECURITY

Ex. 1

MEMBERSHIP CARD

LABORERS' INTERNATIONAL UNION OF NORTH AMERICA

ANGELO FOSCO
Gen Pres

ARTHUR A. COIA
Gen Sec Treas

MEMBER
LOCAL
ISSUED
MEMBER NO
BIRTHDATE
VALID YEAR

1991

Ex. 1

NEW YORK STATE

DRIVER LICENSE

COMMISSIONER
Dept. of Motor Vehicles

Ex. 1

ASBESTOS CERTIFICATE

NEW YORK

Ex. 1

RESIDENT ALIEN

U.S. Department of Justice Immigration and Naturalization Service

YARSE PARRA, JOSE GABRIEL

CERTIFICATE NUMBER
AII-88-00186

SOCIAL SECURITY NUMBER

Ex. 1

EYES	HAIR
BROWN	BLACK
WEIGHT	HEIGHT
196 lbs.	6 ft. 0

ADDRESS CORRESPONDENCE TO:
(Include certificate number)
NYS Department of Labor
OSHA - License and Certificate Unit

THE CARRIER
WHEN WORKING
AN ASBESTOS

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by White Ling Assoc., the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: George E. Brown

Address: Ex. 1

Signature: George E Brown

Social Security Number : Ex. 1

KAREN GRANDC
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 19[illegible]

Signed in the presence of:

Sworn to and Subscribed before me
this 6 Day of [illegible], 19[illegible]

P 726390

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME George Brown

ADDRESS (Optional)

EMPLOYER International Asbestos Removal (NAC)

ADDRESS Woodside N.Y.

Check only those items which have been explained to you:

✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.

✓ USEPA and OSHA regulations and exposure standards.

✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).

✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).

✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.

✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.

✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.

✓ Equipment decontamination procedure.

✓ Personnel decontamination procedure.

✓ Glove Bag usage and safety measures.

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: 5/90.

✗ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ✗.

✗ Physical examinations by a Physician. Name: R Schwenfeld
Date: 4/3/90

✗ Chest x-ray, and pulmonary function test: Date: 4/3/90

✗ Physician approval to work while using a respirator:
Name: R Schwenfeld
Date: 4/3/90

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Signature: [illegible] Date: 2/1/90

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature _____ Title _____

Date 2/1/90 Print Name _____

P 726392

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by _____, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: Ryszard Konarzewski

Address: Ex. 1

Signature: Ryszard Konarzewski

Social Security Number : Ex. 1

GRANDO
State of New York
No. 4890125
Suffolk County
Expires April 20, 19

Signed in the presence of:

Sworn to and Subscribed before me
this 6 Day of [illegible], ~~1989~~

P 726393

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME Ryszard Kowalczyk

ADDRESS (Optional)

EMPLOYER IAR

ADDRESS Woodside N.Y.

Check only those items which have been explained to you:

✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.

✓ USEPA and OSHA regulations and exposure standards.

✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).

✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).

✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.

✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.

✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.

✓ Equipment decontamination procedure.

✓ Personnel decontamination procedure.

✓ Glove Bag usage and safety measures.

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name:_____ Date:_____

✓ Chest x-ray, and pulmonary function test: Date:_____

✓ Physician approval to work while using a respirator: Name:_____ Date:_____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Raymond Kowarcewski 1/2/91

Signature Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

_____ Signature

_____ Title

_____ Date

_____ Print Name

P 726395

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by _____, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: ARTUR TAPISLE

Address: Ex. 1

Signature: _____

Social Security Number : Ex. 1

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 30, 19

Signed in the presence of:

P 726396

Sworn to and Subscribed before me
this ____ Day of _____, ~~1989~~

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME ARTUR TAGIELA

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.

✓ USEPA and OSHA regulations and exposure standards.

✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).

✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).

✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.

✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.

✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.

✓ Equipment decontamination procedure.

✓ Personnel decontamination procedure.

___ Glove Bag usage and safety measures.

P 726397

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name:_____ Date:_____

✓ Chest x-ray, and pulmonary function test: Date:_____

✓ Physician approval to work while using a respirator: Name:_____ Date:_____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Signature _____ Date 02/01/92

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature _____ Title _____

Date _____ Print Name _____

P 726398

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by _____, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: HENRYK SWITA

Address: Ex. 1

Signature: Ex. 1

Social Security Number Ex. 1

Signed in the presence of:

Sworn to and Subscribed before me this 6 Day of [illegible], 1989

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 19[illegible]

P 726399

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME HENRYK SKITA

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

P 726400

Documentation of Worker Training Form

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Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name:_____
Date:_____

✓ Chest x-ray, and pulmonary function test: Date:_____

✓ Physician approval to work while using a respirator:
Name:_____
Date:_____

- -

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

[illegible]	Oct. 01. 91
Signature	Date

- -

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature	Title
Date	Print Name

- -

P 726401

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by _____, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: BRYSTYNA WALESCZYNSKA

Address: Ex. 1

Signature: [illegible]

Social Security Number Ex. 1

Signed in the presence of:

Sworn to and Subscribed before me this ___ Day of _____, 1999

P 726402

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME KRYSTYNA H[illegible]

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name: _____
Date: _____

✓ Chest x-ray, and pulmonary function test: Date: _____

✓ Physician approval to work while using a respirator:
Name: _____
Date: _____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

[illegible] 02/01/91

Signature Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

_____ _____

Signature Title

_____ _____

Date Print Name

P 726404

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by _____, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: MAIGORZATA OSINSKA

Address: Ex. 1

Signature: [redacted] Małgorzata Osińska

Social Security Number : Ex. 1

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 19[illegible]

Signed in the presence of:

Sworn to and Subscribed before me
this [illegible] Day of [illegible], ~~1987~~

P 726405

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME OSIŃSKA MAŁGORZATA

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- √ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- √ USEPA and OSHA regulations and exposure standards.
- √ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- √ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- √ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- √ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- √ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- √ Equipment decontamination procedure.
- √ Personnel decontamination procedure.
- √ Glove Bag usage and safety measures.

P 726406

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name: _____ Date: _____

✓ Chest x-ray, and pulmonary function test: Date: _____

✓ Physician approval to work while using a respirator: Name: _____ Date: _____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Margarita Owusu — Signature

02.01.1990 — Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

_____ Signature

_____ Title

_____ Date

_____ Print Name

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by _____, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: RICHARD NOLSKI

Address: Ex. 1

Signature: Richard Nolski

Social Security Number : Ex. 1

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 19

Signed in the presence of:

Sworn to and Subscribed before me
this 1 Day of Jan, 1989

P 726408

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME RYSZARD HOLSKI

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

P 726409

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name: _____ Date: _____

✓ Chest x-ray, and pulmonary function test: Date: _____

✓ Physician approval to work while using a respirator: Name: _____ Date: _____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Ryszard Hohlel — Signature

02.01.1991 — Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

_____ Signature

_____ Title

_____ Date

_____ Print Name.

P 726410

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name:_____ Date:_____

✓ Chest x-ray, and pulmonary function test: Date:_____

✓ Physician approval to work while using a respirator: Name:_____ Date:_____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Signature _____ Date 02.01.1991

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature _____ Title _____

Date _____ Print Name _____

P 726411

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by National Abatement, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: JAN KOZUB

Address: Ex. 1

Signature: [illegible]

Social Security Number : Ex. 1

P 726412

Signed in the presence of:

Sworn to and Subscribed before me this 25 Day of February 1989

Notary Public State of New York

NOTARY PUBLIC

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME JAN KOZUB

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name:_____ Date:_____

___ Chest x-ray, and pulmonary function test: Date:_____

___ Physician approval to work while using a respirator: Name:_____ Date:_____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Signature: [signature] Date: 01. 23. 91

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature _____ Title _____

Date _____ Print Name _____

P 726414

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by National Abatement, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: DZIEDZIC JAN

Address: Ex. 1

Signature: [signature]

Social Security Number : Ex. 1

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Signed in the presence of:

Sworn to and Subscribed before me this 25 Day of February 1991 ~~1989~~

[signature]

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME JAN DRIEDZIC

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

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Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.
Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name: _____
Date: _____

✓ Chest x-ray, and pulmonary function test: Date: _____

✓ Physician approval to work while using a respirator:
Name: _____
Date: _____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Signature: _____ Date: 01.23.91

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature _____ Title _____

Date _____ Print Name _____

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EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by National Abatement, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: JAN KURCZYNSKI

Address: Ex. 1

Signature: [signature]

Social Security Number: Ex. 1

P 726418

Signed in the presence of:

Sworn to and Subscribed before me this 25 Day of [illegible], ~~1989~~ 1991

PATRICK A. [illegible]
Notary Public, State of New York

[signature]

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME JAN KURCZWSKI

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

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Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name:_____ Date:_____

✓ Chest x-ray, and pulmonary function test: Date:_____

✓ Physician approval to work while using a respirator: Name:_____ Date:_____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

[illegible]	01.23.91
Signature	Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature	Title
Date	Print Name

EMPLOYEE RELEASE FORM

I, the undersigned, do hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I will be employed in work in asbestos contaminated work areas, and I acknowledge that I have been advised of the hazards; trained in proper procedure and use of equipment; and I understand the dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY INHALATION, INGESTION, OR CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby release and forever discharge the Building Owner, Tenant, Construction Manager, Engineer and all of their directors, officers, employee, nominees, personal representatives, affiliates, successors, and assigns from and against and all liability whatsoever, at common law or otherwise except any rights which the undersigned may have under the provision of the applicable workmen's compensation laws.

4. I hereby warrant and represent that to the best of my knowledge I have not been diagnosed as having any asbestos-related disease; or been disabled, laid-off, or compensated in damages or otherwise, because of any asbestos related disease.

I acknowledge that safety instructions have been given to me by National Abatement, the company by which I am employed and I am thoroughly conversant with them and have answered the above questions truthfully.

Name: HENRYK BIENKOWSKI

Address: Ex. 1

Signature: [signature]

Social Security Number : Ex. 1

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Signed in the presence of:

Sworn to and Subscribed before me this 25 Day of February, ~~1989~~ 1991

PATRICK A. REYNOLDS
Notary Public State of New York

[signature]

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME HENRYK BIENKOWSKI

ADDRESS (Optional) _____

EMPLOYER _____

ADDRESS _____

Check only those items which have been explained to you:

- ✓ Asbestos exposure hazards: asbestosis, cancer of lungs and digestive tract, mesothelioma.
- ✓ USEPA and OSHA regulations and exposure standards.
- ✓ Protective equipment required and how to put it on properly, (including disposable suits, gloves, booties, goggles, hard hats, hoods, and respirators).
- ✓ Respirator use, maintenance, importance of proper fit, the negative and positive pressure tests, importance of proper cartridges, proper operation of a respirator (including no beards, eating, smoking, gum or tobacco chewing).
- ✓ Isolation of a work area, signs to be displayed, and use of a negative pressure air system with HEPA filtration.
- ✓ Wetting of asbestos before handling, cutting, etc. Lowering not dropping of asbestos. Use of HEPA rated vacuum cleaners.
- ✓ Packaging of asbestos, including wetting, bagging, labeling, and removing from the work zone.
- ✓ Equipment decontamination procedure.
- ✓ Personnel decontamination procedure.
- ✓ Glove Bag usage and safety measures.

Documentation of Worker Training Form

Check only those tests which you have had, or approvals which apply to you:

✓ City of New York Certification for asbestos handlers and/or supervisors.

✓ Respirator Fit Test (irritant smoke, saccharin, banana oil, other _____) CIRCLE ONE.

Date: _____.

✓ The respirator used during this test has been issued to me for my exclusive use. YES ____ or NO ____.

✓ Physical examinations by a Physician. Name: _____ Date: _____

✓ Chest x-ray, and pulmonary function test: Date: _____

✓ Physician approval to work while using a respirator: Name: _____ Date: _____

I have received the above training, tests, and approvals, and I understand the safe handling procedures for asbestos work.

Signature	Date
[illegible]	01.23.91

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature	Title

Date	Print Name

P 726423

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR RESOURCES
295 LAFAYETTE STREET, NEW YORK, N.Y. 10012

ALBERT F. APPLETON
Commissioner

SAMUEL STEMPLER, P.E.
Assistant Commissioner

APPENDIX A

MEDICAL EXAMINATION FOR ASBESTOS WORKERS

APPLICANT NAME: Eddie L. Carter

HOME ADDRESS: Ex. 1

Ex. 1

TELEPHONE NUMBER: Ex. 1

DATE OF BIRTH: Ex. 1

SOCIAL SECURITY NUMBER Ex. 1

LABORERS' INTERNATIONAL UNION of North America
JUSTICE • HONOR • STRENGTH
MTDC
ME 1792

NOT VALID WITHOUT SEAL

MTDC

ME 1792

BASED UPON THE MEDICAL EXAMINATION WHICH INCLUDED PULMONARY FUNCTION TESTS OF VITAL CAPACITY (FVC) AND FORCED EXPIRATORY VOLUME AT ONE SECOND (FEV_1) AND AN EVALUATION OF A RECENT CHEST ROENTGENOGRAM IT IS MY OPINION THAT THE ABOVE NAMED PATIENT (PLEASE CHECK APPROPRIATE BOX) IS [✓] IS NOT [ ] PHYSICALLY QUALIFIED TO WEAR A RESPIRATOR IN THE PERFORMANCE OF HIS/HER JOB:

E. MIRSKY M.D.	2/17/92
NAME OF PHYSICIAN	DATE OF EXAMINATION
[signature] M.D.	[signature]
SIGNATURE OF PHYSICIAN	ADDRESS
	[illegible]
STATE LICENSE NUMBER	TELEPHONE NUMBER

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QUALITATIVE/QUANTITATIVE FIT TEST

APPLICANTS NAME: Eddie L. Carter DATE OF BIRTH: Ex. 1

ADDRESS: Ex. 1 S.S.# Ex. 1

Ex. 1 TELEPHONE: ( ) Ex. 1

SPECIFY TYPE OF TEST AND TEST AGENT

QUALITATIVE		QUANTITATIVE	
1. Irritant smoke test	✓	1. Aerosol	
2. Odorous vapor test		2. Gas	
3. Taste Test		3. Vapor	
		4. Other	

RESPIRATOR TESTED

Types: 1/2 Face

Brands: North

Size: Large

SUCCESSFUL TEST

Types: 1/2 Face

Brand: North

Size: Large

Test Administered By:

Nancy Maignan 2-18-92

Name Date

Nancy Maignan

Signature Address

Telephone Number

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FIRE DEPARTMENT, CITY OF NEW YORK — BUREAU OF FIRE PREVENTION
250 LIVINGSTON ST., BROOKLYN, N.Y. 11201 — 6884

CERTIFICATE OF FITNESS (A)

CERTIFICATE NUMBER	ISSUED	EXPIRES	FEE PAID
[illegible]	[illegible]	[illegible]	[illegible]

TYPE [illegible]
NAME [illegible]
ADDRESS

X. 1 [illegible]

SOCIAL SECURITY NO.	DATE OF BIRTH	SEX	HEIGHT	WEIGHT
[illegible]	[illegible]	M	[illegible]	205 LBS

HAIR	EYES	CITY EMPLOYEE
[illegible]	[illegible]	[illegible]

EMPLOYER

WORK ADDRESS [illegible]

SIGNATURE [illegible]

P 726426

250 Livingston Street
Brooklyn, N.Y. [illegible]-5884

RECEIPT DATE [illegible] 19 [illegible] 38320

RECEIVED FROM [illegible]

FOR CERTIFICATE OF FITNESS EXAM $25.00

HOW PAID	
CASH	✓
CHECK	
MONEY ORDER	

EXAM PASSED

BY [illegible]

PERSONAL INFORMATION CARD

PLEASE PRINT

NAME Eddie L Carter Soc. Sec. Number Ex. 1

Date of Birth: Ex. 1 Address: Ex. 1

Ht: 5'10" Ex. 1

Wt 215

B.P 124/90 P 72 R 12

Spirometer normal

Chest X-Ray

Lab

Comments: ind. PE " heart/lung/abd

alt TBP

Date of Exam: 2/17/92

DISPOSITION

QUALIFIED

Qual with referral

UNQUALIFIED

P 726427

ATTACHMENT D
H^+GCL's Daily Log

American Airlines
JFK International Airport
Jamaica, New York 11430

AMERICAN AIRLINES
7021.42
HANGAR 10 · CORE FLOOR V.A.T
PHASE II

Monday March 9, 1992

0640 H+GCL is on-site William Birnbaum I am bringing in my equipment to the area where work will be going on.

0700 I have set up five (5) air sampling pumps in order to collect pre-abatement background air samples.

Time	Sample #	Location	C.P.M
0700	03099218401	Inside center work area #2	11.4
0700	03099218402	Inside area #2 South	11.4
0701	03099218403	Inside area #2 North	11.4
0701	03099218404	Inside area #2 east	11.4
0702	03099218405	Inside area #2 west	11.4

0730 There is a carpenter from VRH construction company on-site. He will be building the temporary box which will house the computer inside the work area.

0800 Two representatives from National Abatement Corp (NAC) have arrived on-site one is Sal DeLorenzo (Project Manager) and Chris Keane who is the crew supervisor.

0815 We are going over all of the plans for prepping the work area and what has to be removed ie pipe fittings. I am explaining to Sal and Chris that all ducts with fiber glass insulation

82 Dukes on Wednesday 3/18/92

P 726429

must be covered with 2 Layers of 6-mil poly sheeting.

0835 We have also gone over which pipes will be glovebagged when the area is under full containment.

0840 I have shut down the five (5) air sampling pumps which were collecting pre-Abatement background air samples. I have secured samples 03099218401, 03099218402, 03099218403, 03099218404, and 03099218405.

0900 Sal DeLorenzo has Left the work-site. The Electricians from Neal Electric have arrived on-site they will be setting up the G.F.I. panel (Ground Fault Interrupter)

0940 The workers from National Abatement Corp (NAC) have arrived on-site with their equipment truck. I have collected the workers certificates in order to review and then record into the on-site Log Book.

	Name	S.S.#	N.Y.C.#	NYS
Supervisor	Christopher Heuke	121-42-4980	08143	A1189-[illegible]
	James Palladino	062-58-5366	37679	A1191-02233
	Carlos Varela	072-20-[illegible]98	39367	A1188-02274
	Jose Yarse	115-70-7555	37068	A1188-00286
	Eddie Carter	072-48-1145	08054	A1188-32570

1030 The carpenter from V.R.H. const. corp. has completed erecting the wooden box which will protect the computer equipment that is located within the work area.

1045 The workers from N.A.C. have started to erect the De-Contamination Facility. I have gone over to the work area to check and make sure that the workers know to cover all critical barriers first.

1125 There are two workers building the Decontamination Facility and two workers insid: covering all critical barriers.

1145 The work crew from National Abatement Corp. (NAC) has gone on a Lunch Break.

1210 I have set up another set of five (5) air sampling pumps in order to collect samples during the preparation phase of the project.

1230 The workers from N.A.C. have returned from their Lunch Break, and will continue with work area preparation.

1330 I have shut down the five (5) air sampling pumps which were collecting samples inside the area during preparation. I have also secured samples 03099218401, 03099218402, 03099218403, 03099218404 and 03099218405.

P 726430

1350 The workers have started to put poly on the Fluorescent Lights and the bundles of wires that are in the work area.

1430 I have spoken with Chris Keane (sup.) for NAC. The workers will be starting work this week at 0700hrs.

1500 The workers have closed up the wood box which is covering the computer in the area of the room. A mini micro trap will be hooked up to a hole in the box so as to draw air into the box constantly, to keep the computers from overheating. Another hole will be made on the other side of the box in order for the air to flow through.

1535 The workers from NAC have stopped work for today and are cleaning the site up prior to leaving.

1600 The work crew from National Abatement Corp (NAC) has left the work site for today.

1625 I have left the work-site for today, HtGCL is now off site, William Birnbaum.

W.S.B.

Tuesday March 10, 1992

0650 HtGCL is on site William Birnbaum. The work-crew from National Abatement Corp. (NAC) has started to arrive on-site. Chris Keane is the crew supervisor, there is a total of five (5) workers on-site for NAC today.

0700 The workers will start today by continuing the building of the Decontamination facility and checking for a water source which will be used for the showers and work area.

0720 The electricians from Neal Electric Company are also on-site. They will continue to hook up the G.F.I. panel and also run lights into the work area on stringers along with outlets for the five (5) micro-traps that are in the area.

0755 The micro traps that are in the area will be run in series because the exhaust will be dumping to the inside of the hangar.

0810 There are two workers from NAC that are inside the area. They will be putting poly over the lights - which are being treated as a critical barrier. There will be a truck coming to the site this

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morning for NAC) with additional supplies.

0900 I have set up three (3) air sampling pumps inside the area in order to collect samples during the preparation phase of the project.

Time	sample #	Location	L.P.M.
0905	031092184 01	Inside area North side	10.6
0905	031092184 02	Inside area South side	10.6
0905	031092184 03	Inside area East side	10.6

0940 I have spoken with Rochelle Joyner Representative from the Port Authority's AMCD office. She informed me that the Placard from the P.A. will be on-site later on this afternoon or late morning.

1000 I have collected the certificates of the workers on-site from National Abatement Corp. (NAC) today. I will review the certificates and then record them into the on-site log book.

	Name	S.S. #	H.K.C. #	N.J.S. #
Supervisor	Chris Keane	121-42-4980	08143	AH89-01061
	James Paladino	011-58-5586	37677	AH91-02238
	Carlos Varela	071-70-0498	39367	AH88-00271
	Jose Yarse	115-70-7555	37008	AH89-[illegible]
	Eddie Carter	072-48-1145	08054	AH88-32570

1035 Gary Pelletier (Project Director) from the office has stopped by the site. He has informed me that Rochelle Joyner is trying to reach me. She will meet me out in front of the Hangar so I can escort her into the building.

1040 Gary Pelletier has left the site, he will be going over to Building 57 (Marsh terminal)

1055 I have met Rochelle Joyner out in front of the building I am escorting her into the hangar to where the location of the work area is.

1115 I have introduced Rochelle to Chris Keane (Supervisor) from National Abatement Corp. (NAC). She has given us the Port Authority Asbestos Abatement Permit Placard. We are making copies of it along with the EPA Notification.

1135 Rochelle Joyner has left the site. She informs me that she will return this afternoon in order to drop off the daily sign in sheet for the Port Authority AMCD Office.

1200 I have shut down and secured air sampling pumps that are inside the work area, collecting samples during preparation phase. I secured samples 031092184 01, 031092184 02, and 031092184 03.

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1300 I (Bill Birnbaum) have set up another set of three air sampling pumps inside the work area in order to collect samples during the preparation phase of the project.

Time	Sample #	Location	C.P.M.
1300	0310921840 4	Inside area center	10.6
1300	0310921840 5	Inside area north side	10.6
1300	0310921840 6	Inside area south side	10.6

1430 Rochelle Joyner from the Port Authority has stopped by the work-site. She is here to drop off the daily Sign in sheet and to also give me a List of Items which are required to be in the Decontamination Facility.

1435 Rochelle has Left the Job-site. I have shut-down and secured the three (3) air sampling pumps along with air samples 0310921840 4, 0310921840 5 and 0310921840 6.

1515 The Decontamination Facility is approximately 60% completed. The Hot-H2O heater is all hooked up and ready to be used. We shall speak with a representative from American Airlines as to where the best Location is for us to draw water for the shower and waste Decon.

1530 The workers from National Abatement Corp (NAC) are now cleaning up the work-site.

1600 The work crew from National Abatement Corp (NAC) has left the work-site for today.

1630 I have left the work-site for today, HGCL is now off-site. William Birnbaum

W.S.B.

P 726433

Wednesday March 11, 1992

0650 H+GCL is on site William Birnbaum. The work crew from National Abatement Corp (NAC) is arriving on-site, Chris Keane is the crew Supervisor. There is a total of five (5) workers on-site for (NAC) today.

0700 The workers will be continuing to prep the Decontamination Facility and get it to be fully operational.

0710 I have gone over to V.R.H trailer in order to make a phone call.

0755 The supply truck from National Abatement Corp. (NAC) has arrived on-site. Some of the workers are unloading the truck, there is additional plywood in the truck which will be used for finishing the Decontamination Facility.

0825 I have spoken with Chris (supervisor) he has informed me that Rochelle Joyner from the Port Authority is on-site and will be here to drop off today's sign in sheet.

0900 I have checked the status with preparation work on the Decontamination Facility it is approximately 80% completed. Two Airlines maintenance workers have shown (NAC) where they can draw water from for their Decontamination Facility.

0915 I have set up three (3) air sampling pumps inside the work area in order to collect samples during the preparation phase of the project

Time	Sample #	Location	L.P.M.
0915	031192185901	Inside area West side	10.6
0916	031192185902	Inside area West	10.6
0916	031192185903	Inside area East side	10.6

0935 The workers from NAC are now setting up the shower inside the Decon. Fac. and they will also hooking up the water from the designated source which has been supplied by American Airlines.

1000 Rochelle Joyner from the Port Authority's A.M.C.D office has shown up to the work-site with todays sign in sheet. She is also checking on the status of the Decontamination Facility.

1115 Rochelle Joyner (P.A. rep.) has left the work site for now. She will return at 1300 hrs for a possible inspection of the Decontamination Facility. I have shut down the three air sampling pumps that are located inside the work area, I have secured samples 031192185901, 031192185902, 031192185903. I have informed Chris Keane that

Rochelle Joyner will be returning at 1300hrs. to perfor an inspection of the Decontamination Facility.

1135 I have collected all of the workers certificates in order to review them and then record the certificates into the on-site Log-Book.

name	S.S.#	N.Y.C#	N.Y.S.#
super Chris Keane	121-42-4780	08143	A1189-07061
James Palladino	062-58-5366	31679	A1191-02238
Carlos Varela	072-70-9698	39361	A1188-00274
Jose Yarse	115-70-7555	37008	A1188-00286
Eddie Carter	072-48-1145	08059	A1188-32570

1200 The work crew from NAC has gone on a Lunch Break.

1210 A representative from American Airlines has approached me to inform me that he needs to gain access into the area to check the computer terminals. He told me that they could be overheating, I told him that I will check unit along with the crew foremen.

1220 We have solved the problem by increasing the mini-micro trap to the high setting and also by changing filters on the exhaust side of the box covering the computer terminals.

1235 The work crew from National Abatement Corp. (NAC) has returned from their Lunch Break; they will continue with prepping the Decontamination facility.

1300 I have set up another set of three air sampling pumps inside the area in order to collect samples during the preparation of the Decontamination Facility.

time	sample #	Location	C.P.M.
1300	03119218404	Inside Area by Decon	10.0
1300	03119218405	Inside Area North side	10.6
1301	03119218406	Inside Area Lobby side	10.6

1320 Rochelle Joyner from the Port Authority's AMCO office has returned to the site. She is accompanied by Jeffery ENILC. Jeff will be replacing Rochelle as the representative from AMCO office. Rochelle has told us that she will be returning to the LaGuardia Airport System. They are here to check on the Decontamination Facility. I have also informed Jeff what the area entails and what the scope of work is.

1345 Rochelle and Jeff are leaving the work site, I informed Jeff that I will call him over the phone to let him know

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when the Decontamination Facility will be ready for a visual inspection.

1430 I have shut down the three air sampling pumps inside the area and secured samples 031192B404, 031192B405, and 031192B406.

1435 I have called Jeffery ENILO of the Port Authority to inform him that he should come in the morning tommorrow in order to conduct his visual inspection

1500 The workers have stopped working for today and area now cleaning up the area.

1515 The work crew from National Abatement Corp (NAC) has left the work site for today.

1530 I have left the work-site for today, H'GCC is now off-site. William Birnbaum

W.F.B.

Thursday March 12, 1992

0650 H'GCC is on-site William Birnbaum The work crew from National Abatement Corp. (NAC.) is on-site, Chris Keane is the crew supervisor. There is a total of five (5) workers on-site for N.A.C. today.

0700 The workers from NAC are performing last minute touch ups on the preparation work on the Decontamination Facility.

0740 Jeffery Enilo from the Port Authority AMCD office has arrived at the work-site. He is here to perform an inspection on the Decontamination Facility, I informed him that the crew is still hooking up the hot water heater and the drain lines to the filtration system.

Jeffery has informed me that he will return at 1000hrs to perform the inspection on the Decontamination Facility. I have informed Chris Keane (supervisor) that the Port Authority inspector will be back at 1000hrs to perform an inspection on the Decontamination Facility.

0845 I have gone around the Decontamination Facility in order to check for any problems and make sure that the water lines are being hooked up properly. The hot water heater is now on-line.

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0900 I have set up three (3) air sampling pumps inside the area in order to collect samples during the preparation phase of the project.

time	Sample#	Location	L.P.M.
0910	03129218401	Inside Area East side	10.6
0910	03129218402	Inside Area South side	10.6
0911	03129218403	Inside Area North Side	10.6

0955 Jeffery Enilo from the Port Authority's AMCO office has arrived on-site along with Wilbur McNeill. They are here to conduct a complete inspection of the Decontamination Facility to make sure that it is fully operational.

1045 The visual inspection has been completed by the Port Authority. It is now ok for the work crew to begin prep work inside the area. Jeffery has told me that he will get the updated placard to the site by the end of tommorrow. I have shut down the three air sampling pumps that were running inside the area. I secured samples 03129218401, 03129218402 and 03129218403.

1100 I have collected all of the workers asbestos certificates so that I may review them and then record the certificates into the on-site Log-Book.

Name	SS#	NYC#	NYS#
Supervisor Chris Keane	121-42-4980	08143	AH87-04061
James Palladino	062-58-5360	37679	AH91-02238
Carlos Varela	071-70-7698	39367	AH88-00274
Jose Yarse	115-70-7555	37008	AH88-00186
Eddie Carter	072-48-1145	08054	AH88-32570

1130 The workers are now finishing up the light fixtures by putting two (2) layers of 6mil poly. over them.

1200 The worker from NRC have gone on a Lunch Break.

1230 The work crew from National Abatement Corp have returned from their Lunch Break and will continue prepping the work area. They are also hooking up the flex hoses to the micro-traps and getting them ready to go on-line.

1245 I have set up another three air sampling pumps in order to set up three more samples during the prepparation phase of the project.

time	sample#	Location	L.P.M.
1248	03129218404	Inside area North side	10.6
1250	03129218405	Inside area South side	10.6
1250	03129218406	Inside area Ent. to Decon	10.6

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1325 I have suited up and entered the work area wearing a half face respirator. All the workers inside are also wearing the same protection.

1340 I have exited the area, the workers are putting up the critical barriers. They are also starting up the micro-traps.

1350 I have taken a smoketube and checked the flow of negative air through the Decontamination Facility, it is O.K. but will improve once all critical barriers are in place.

1410 I have gone into the work area and shut down the three air sampling pumps and secured samples 031292 18404, 03129218405, and 03129218406. At the end of today's shift I will hand deliver the samples to Laboratory Testing Services.

1530 The workers have stopped work for today and are now cleaning up the work area

1600 The work crew from National Abatement Corp (NAC) has left the work-site for today.

1620 I have left the work-site for today; H'GCL is now off-site. [illegible]

Friday March 13, 1992

0550 H'GCL is on-site William Birnbaum. The work crew from National Abatement Corp (NAC) is already on-site. Chris Keane is the crew supervisor. There is a total of five (5) workers on-site for NAC today.

0700 The workers will be inside the work area continuing with preparation work. They will be working on sealing up all critical barriers.

0730 Jeffrey Enilo, from the Port Authority's AMD Office has shown up to the work site. He is here to pick up the daily sign in sheet. Jeff has asked me if the work area will be ready for a visual inspection today. I told him that it looks as if the area should be ready on Monday afternoon.

0800 Jeffrey Enilo from the Port Authority has left the work-site, he says that he will be back later on this morning or in the afternoon.

0825 I have suited up and donned a ½ face respirator in order to enter the work area. I am checking to see how the progress of preparation is going and to also check to make

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sure that all workers are wearing the proper protection while inside the work area conducting preparations.

0815 I have exited the work area, everything is going well inside. The workers are currently putting critical barriers over the HVAC ducts which are insulated.

0945 Chris Heane (supervisor) has informed me that the work crew will be working on critical barriers for most of today and on monday they will be working on hanging one layer of wall poly.

1015 I have set up five (5) air sampling pumps outside the work area perimeter. These samples will be running during the preparation phase of the project.

time	sample#	Location	LPM
1015	0313921840 1	Inside Clean Room Door	7.5
1015	0313921840 2	Outside entrance to Door	7.5
1017	0313921840 3	Outside at exhaust HEPA	7.5
1017	0313921840 4	Outside by GFI Panel	7.5
1018	0313921840 5	Outside critical Door	7.5

1100 I was informed by Chris Heane that his boss is on-site and he introduces me to him, his name is Josh Grando from IAR Company.

1130 John Grando from IAR has left the work-site.

1150 The workers from NAC have gone on a Lunch Break.

1230 The work crew from National Abatement Corp (NAC) have returned from their Lunch Break and will continue with preparation of the work area. I have also shut down the five (5) air sampling pumps and sealed samples 0313921840 1, 0313921840 2, 0313921840 3, 0313921840 4 and 0313921840 5.

1310 Jeffery Emilio from the Port Authority has stopped by the work-site. He is here to pick up today's sign in sheet and a copy of yesterdays OSHA sampling results.

1330 Jeffery Emilio from the Port Authority Air Quality has left the work-site for today.

1335 I have set up another set of five samples in order to collect samples during the preparation phase of the project.

time	sample#	Location	LPM
1335	0313921840 6	Inside Clean Room Door	7.5
1336	0313921840 7	Outside entrance to Door	7.5
1338	0313921840 8	Outside at HEPA Exhaust	7.5

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time	Sample#	Location	LRM
1340	03139218409	Outside by GCL Panel	7.5
1340	03139218410	Outside critical Door	7.5

1400 I have collected all of the workers certificates that are on-site. I will review the certificates and then record them into the on-site Log Book.

	name	S.S.#	N.Y.C.#	N.Y.S.
supervisor	Chris Keane	121-42-4980	08143	AH89-040
	James Palladino	062-58-5366	37679	AH91-022
	Carlos Varela	071-70-9698	39367	AH88-00279
	Jose Yarse	115-70-7555	37008	AH88-00186
	Eddie Carter	072-48-1145	08254	AH88-32570

1435 The workers are inside the work area continuing with hanging poly over all critical Barriers. The walls will be done on Monday. The work crew foreman has informed me that he has changed the filters on each of the HEPA Exhaust units.

1510 I have shut down the five (5) air sampling pumps and secured samples 03139218406, 03139218407, 03139218408, 03139218409, and 03139218410. I will deliver the samples to Laboratory Testing Services upon completion of today's shift.

1520 The workers from N.A.C. have stopped work for today and are now cleaning up the work-site.

1545 The work crew from National Abatement Corp. (NAC) has left the work-site for today.

1610 I have left the work-site for today. H+GCL is now off-site. William Bonk

W.E.B.

P 726440

Monday March 16, 1992

0645 H+GCL is on-site William Birnbaum
Some of the workers from National Abatement Corp (NAC) are on-site.

0700 The entire work crew for National Abatement Corp (NAC) is on-site, Chris Keane is the work-crew supervisor there is a total of five (5) workers on-site for (NAC) today.

0715 The workers have suited up and are entering the work area to continue preparation of the area. We should be ready for a pre-Abatement visual sometime this afternoon.

0730 Chris has informed me that the workers are hanging glovebags on fittings that are marked for removal. These glovebags will be done first immediately following the pre-abatement visual.

0745 I have set up five (5) air sampling pumps at the perimeters of the work area on the outside. These samples will be running during the preparation phase of the project.

time	Sample#	Location	L.P.M.
0746	03169218401	At HEPA Exhaust	7.5
0747	03169218402	Adjacent to Critical Bar	7.5
0747	03169218403	next to GFI panel	7.5

0810

0830

0845

0920

0930

time	Sample#	Location	L.P.M.
0748	03169218404	Outside Entrance to Decon.	7.5
0748	03169218405	Inside Clean room of Decon	7.5

I have suited up in order to enter the work area and check on the progress of preparation work. I will also check to see that all workers are properly protected wearing a half face respirator and tyvek suits.

I (Bill Birnbaum) have exited the work area all workers are properly protected and they are currently putting poly on the final two ducts.

Jeffery Enilo from the Port Authority's AMC Office has shown up to the work-site. He is here to drop off the updated placard and to also pick up Fridays and todays sign in sheet as well as copies of air sampling results from last week.

Jeffrey Enilo from the Port Authority is leaving the work-site. He informs me that he will return at 13 hours in order to see if the area will be ready for a pre-abatement inspection.

Chris Keane (supervisor) has informed me that there will be a waste

container from Asbestos Canting Corp (ACC) on-site tommorrow it will arrive between the hours of 0800 - 1100 hrs. I will inform the Port Authority of this when they arrive this afternoon for the inspection.

1015 I have shut down and secured air samples 03169218401, 03169218402, 03169218403, 03169218404, and 03169218405.

1100 I have gone around and collected the certificates of all the workers on-site for National Abatement Corp. (NAC). I will review the certificates and then record them into the on-site Log-Book.

	name	S.S #	N.Y.C. #	NYSA
supervisor	Chris Keane	121-42-4980	08143	AH88-01011
	James Falkdino	061-58-5366	37679	AH91-02238
	Carlos Varela	071-70-8898	39367	AH88-00274
	Jose Yarse	115-70-7555	37208	AH88-00186
	Eddie Carter	072-48-1145	08054	AH88-32570

1120 I have smoke tested all critical barriers from the outside there were no breeches detected, I also smoke tested in the clean room to check and make sure that there is a sufficient flow of air through the decontamination facility.

1145 I have set up another set of five (5) air samples to collect during the preparation of the work area.

time	sample #	Location	CFM
1145	03169218406	At HEPA Exhaust	7.5
1146	03169218407	Adjacent to critical bar.	7.5
1147	03169218408	next to GFI Panel	7.5
1147	03169218409	Outside Entrance to Decon	7.5
1148	03169218410	Inside clean room of Decon	7.5

1200 The workers from (NAC) have gone on a Lunch Break.

1235 The workers from (NAC) have returned from their Lunch Break and will continue with preparation work inside the area.

1240 Jeff Enila along with Arvid from the Port Authority's AHO office have arrived on-site to perform a pre-abatement visual. I informed them that the work area will be ready at 1500 hrs. Jeff told me that he will return at that time, he also wanted me to show him where the negative air units are exhausting to.

1500 Jeff Enila and Arvid

0340 I have shut down the five(5) air sampling pumps and secured samples 03229218401, 03229218402, 03229218403, 03229218404, and 03229218405

0347 I have exited the work area I will deliver these samples to Laboratory Testing Services so they may be analyzed later on today.

0415 I have left the work-site, H+GCL is now off-site. William Birnbaum

W.E.B.

Monday March 23, 1992

H+GCL is on-site William Birnbaum. There is one worker here on-site for National Abatement Corp. (NAC)

The rest of the workers from NAC have arrived on-site. Today's work will consist of breaking down the work area and having a waste pickup by Asbestos Carting Corp.

I have spoken with my office and they informed me that the results to the air monitoring tests have come back below .01 f/cc. They are also faxing the results to Tony Fontanetta, Jeff Enilo, and the Resident Engineers office.

The workers from NAC are inside the area breaking down all of the critical barriers and bagging every thing up.

I have collected the asbestos certificates from all of the workers that are on-site for NAC today. There is a total of three (3) workers on-site for NAC.

Name	S.S#	N.Y.C #	N.Y.S.#
Chris Keane	121-42-4980	08143	A1159-04061
James Palladino	012-58-5366	37679	A1191-02238
Eddie Carter	072-48-1145	08054	A1188-32570

The workers from National Abatement

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from the Port Authority have left the work-site.

1415 I have shut down the five air sampling pumps and secured sample 03169218406, 03169218407, 03169218408, 03169218409, and 03169218410.

1500 Jeffery Enilo from the Port Authority has arrived on-site to perform a pre-abatement visual.

1530 Jeff has completed his inspection of the work area. Abatement work will start first thing in the morning.

1540 Jeff Enilo has left the work-site. The workers are cleaning up the work-site.

1600 The work crew from National Abatement Corp (NAC) has left the work-site for today.

1615 I have left the site for today, Ht GCL is now off-site. William Birnbaum

W.E.B.

Tuesday March 17, 1992

1645 Ht GCL is on-site William Birnbaum. A few workers from National Abatement Corp (NAC) are also on-site.

1700 The remainder of the work force from NAC have arrived on-site, Chris Keane is the crew supervisor. There is a total of five (5) workers on-site for NAC today.

1720 The workers are suiting up in order to begin full abatement today. They will be wearing full face PAPR's. The Glovebag work inside the area will be taken care of first, then the floor tile will be taken up. I will also notify Jeffery Enilo from the Port Authority when NAC has completed the glovebag removal of the fittings so he can inspect them.

1745 All of the workers are now inside the area and full abatement has begun.

1750 I have set up five (5) air sampling pumps on the outside of the work around the perimeter. These samples will be running during the abatement phase of the project.

Time	Sample #	Location	L.P.M.
0755	03179218401	At HEPA Exhaust	7.5

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time	Sample#	Location	L.P.M.
0756	03179218402	At critical door	7.5
0756	03179218403	Adjacent to GFI Panel	7.5
0758	03179218404	Entrance to Decon	7.5
0758	03179218405	Inside clean room	7.5

0815 Chris Keane (supervisor) has informed me that the container from Asbestos Carting Corp. (ACC) has arrived on-site. The container will be dropped on the other side of the hangar. I informed Chris to make sure that he copies all of the drivers paperwork. This will also be for Jeff Enilo of the Port Authority.

0840 Chris has informed me that the container has to be lined with poly it is not lined. This will be done prior to the loading of waste into the container.

0915 Jeffery Enilo from the Port Authority AMCD office has arrive at the site. He is here to collect the daily sign in sheet and also make a copy of the updated Placard.

0930 Jeffery Enilo from the Port Authority is leaving the work-site. He told me that he will return around lunch time to inspect the glaebag removal on the pipe fittings.

1000 I have informed Chris Keane that he has to collect all of his workers Asbestos Certificates, that are on-site today. I will review the certificates and then record them into the on-site Log Book.

name	S.S.#	N.Y.C.#	N.Y.S.#
Chris Keane	121-42-4980	08143	AH89-04061
James Palladino	062-58-5366	37679	AH91-02238
Carlos Varela	071-70-9698	39367	AH88-00284
Jose Yarse	115-70-7555	37008	AH88-00186
Eddie Carter	072-48-1145	08054	AH88-32570

1025 I have shut down the five (5) air sampling pumps, which were collecting samples during the abatement phase of the project. I also secured samples 03179218401, 03179218402, 03179218403, 03179218404, and 03179218405.

1040 I (Bill Birnbaum) have suited up and will enter the work area in order to check on the progress of abatement activities and to also make sure that all workers are wearing their protection while inside the work area.

1045 I have exited the work area and showered as I passed through the Decontamination facility. While in the work area I

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smoke tested all critical Barriers
No breeches were detected, I also
smoke tested the Flow of makeup air
through the Decontamination Facility.
I have noticed that the negative air
flow has been Fluctuating greatly,
This is due to the opening and closing
of the Large Hangar doors on either
Side of Hangar #10.

1145 The workers from National Abatement
Corp. (NAC) are starting to exit the
work area for their Lunch Break. They
are going to shower as they pass through
the Decontamination Facility.

1200 Tony Fontanetta and Jeffery Enilo
from the Port Authority's AMCO Office
have paid a visit to the work-site.

1215 Tony and Jeff are Leaving the work-
-site. Jeff has informed me that he
will return at 1400hrs in order to inspect
the pipe fittings which had been added

1225 I have set up another set of five
(5) air sampling pumps in order to
collect samples during the abatement
phase of the project.

time	sample #	Location	L.P.M.
1225	03179218406	At NEPA Exhaust	7.5
1226	03179218407	next to critical door	7.5
1226	03179218408	next to G.T. Panel	7.5
1227	03179218409	At entrance to Clean	7.5
1227	03179218410	Inside clean room	7.5

1130 The workers from National Abatement
Corp. (NAC) have finished their Lunch
Break. They are suiting back up to enter
the work area and continue with Abatement
The floor tiles will now be taken up

1145 Jeffrey Enilo from the Port
Authority's AMCO office has returned
to the work-site. He is here to pick
up the original copy of today's sign
in sheet. I also gave Jeff a letter
requesting an extension on the current
placard from March 18, 1992 to
March 21, 1992.

1230 Jeff is Leaving the site, he wants
us to beep him tomorrow morning to
Let him know when the work area
will be ready for a pre-encapsulation
visual inspection.

1400 I (Bill Birnbaum) have suited up to
enter the work area and check on the
progress of floor tile removal. I
will also check to make sure the workers

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are wearing the proper respiratory protection.

1430 I have exited the work area. The floor tile is approximately 80% removed. I have shut down the five (5) air sampling pumps and secured samples 0317921840 6, 0317921840 7, 0317921840 8, 0317921840 9, and 0317921840 10. All samples will be hand delivered to L.T.S..

1515 The workers from NAC have stopped work for today and are now cleaning up the work area and site.

1540 The workers are exiting the area and are showering as they pass through the Decontamination Facility.

1555 The work crew from National Abatement Corp. is now leaving the work-site.

1615 I am leaving the work-site, HTCL is now off-site. William Birnbaum

W.E.B.

Wednesday March 18, 1992

0750 HTCL is on-site William Birnbaum. The work crew from National Abatement Corp. (NAC) is on-site. Chris Heane is the crew supervisor. There is a total of five (5) workers on site for (NAC) today.

0800 The workers are unable to enter the work area due to the lack of Tyvek suits. I have been informed that there are Tyvek suits on the way to the site.

0815 The work crew is waiting outside the Decontamination Facility for the arrival of the suits.

0830 The crew foreman Jim has informed me that there is approximately 15% of the floor left to do removal on. The workers will then fine clean the work area prior to requesting a pre-encapsulation visual inspection.

0900 The Tyvek suits have not arrived yet. The work crew is still waiting outside for the suits.

I have set up five (5) air sampling pumps in order to collect samples around the perimeter outside the work area. These samples will be running during the abatement phase of the

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project.

time	sample#	location	L.P.M.
0805	03189218401	At HEPA Exhaust	7.5
0806	03189218402	Adjacent to critical door	7.5
0806	03189218403	next to GFI Panel	7.5
0809	03189218404	Outside entrance to Decon.	7.5
0809	03189218405	Inside clean room	7.5

0820 The tyvek suits have arrived on-site. The workers are now suiting up to enter the work area and continue with abatement of the floor tiles.

0830 The workers have entered the work area to begin working for today.

0900 Chris Keane (supervisor) has informed me that an alarm on a panel has been set off inside the work area. He does not know what it is an alarm from, but there was a reset button and one of the workers inside set the button and the alarm stopped.

0925 I have informed Chris that, I will be entering the work area this morning in order to check and determine when if today we can call Jeff Enilo from the Port Authority for a pre-encapsulation visual inspection.

1000 I tried to contact Jeffery Enilo from the Port Authority at his office. I left a message for him to call me concerning the visual inspection.

0925 I have shut down the five (5) air sampling pumps and secured samples 03189218401, 03189218402, 03189218403, 03189218404, and 03189218405.

I have suited up in order to enter the work area and check on the progress of abatement. I will also check to see that all workers are wearing the proper respiratory protection.

I have exited the work area and showered as I passed through the decontamination facility. I also smoke tested the flow of makeup air flowing through the Decontamination Facility, it appears to be satisfactory. The manometer is registering at .045" H_2O.

Jeff Enilo from the Port Authority's AMCD office has shown up to the work-site. He is here to check on the progress of work and when the possibility will be for a pre-encapsulation visual.

I told Jeff that I will call him at 1400 hrs to let him know if the work area will be ready for a visual inspection.

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1145 The workers from NAC have exited the work area and are showering as they pass through the Decontamination facility. They are going on a Lunch Break.

1215 I have collected all of the workers certificates in order to review them and then record them into the on-site Log-Book.

	name	S.S.#	N.Y.C.#	N.Y.S.#
supervisor	Chris Keane	121-42-4980	08143	A1189-04061
	James Palladino	061-58-5366	31679	A1191-02238
	Carlos Varela	071-70-9698	39367	A1188-00274
	Jose Yarse	115-70-7555	37008	A1188-00186
	Eddie Carter	072-48-1145	08054	A1188-32500

1230 The workers from NAC have returned from their Lunch Break and are suiting up to enter the area to begin fine cleaning and waste bag out.

1240 I have set up another set of five(5) air samples in order to collect during the final stages of removal and fine cleaning.

Time	Sample#	Location	L.P.M.
1245	03189218406	At HEPA Exhaust	7.5
1246	03189218407	Adjacent to critical door	7.5
1247	03189218408	Adjacent to GFI, Level	7.5
1248	03189218409	Outside Entrance to Decon	7.5
1248	03189218410	Inside Clean Room	7.5

15 The waste out of bags has begun all bags containing floor tile are being double bagged in the shower of the waste decon and then being placed in cardboard boxes which have been properly labeled.

20 I have called Jeff Enilo at his office. I informed him that it looks as if we will not be ready for a visual inspection today. Jeff has informed me that the Port Authority Placard Expires today and that another one has to be issued before any work can commence again. It seems that work will not be able to go on tommorrow (thursday). Jeff also told me that he will need an updated EPA notification from HGCL. I will call Gary Pelletier to inform him of the need for an updated notification

15 I have called Gary Pelletier and informed him about the notification he will take care of it and send an updated notification via fax to Jeff at the end of today or first thing tommorrow morning.

20 I called back Jeff and relayed the information given to me by Gary Pelletier.

00 The waste out has been completed for today a total of 84 boxes have come out of -

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containment, each box contains approximately 3 bags (doubled).

1510 I have shut down the five (5) air sampling pumps and secured samples 0318921840 6, 0318921840 7, 0318921840 8, 0318921840 9, and 0318921840 10. These samples will be hand delivered to the Labs of C.V.S. at the end of today's shift.

1525 The workers have cleaned up the area and are now showering to exit the work area and shower as they pass through the decontamination Facility. Chris Hearn has informed me that the waste is being stored in the 30 cubic yard container which is already lined with Poly.

1545 The work-crew from National Abatement Corp (NAC) have left the work-site for today. Chris Hearn knows that there is no work scheduled for tomorrow and that we will start back up on Friday morning.

1620 I am leaving the work-site, HGCL is now off-site. William Birnbaum

W.E.B.

Friday March 20, 1992

0730 HGCL is on-site William Birnbaum. The work crew from National Abatement Corp. (NAC) is already on-site, Chris Hearn is the crew supervisor. There is a total of three (3) workers on-site for NAC today. The plan for today is to finish up with the fine cleaning, take out the last of the waste bags and perform the pre-encapsulation visuals.

0730 The workers have suited up and are entering the work area in order to begin work for today.

0735 The workers inside the area are wrapping out the last 20 waste bags (approximate). These bags contain used poly, tape, tyvek suits and other contractor debris. There is no floor tiles in these bags. The waste bags are being passed through the waste decontamination facility shower, then double bagged.

0830 Chris Hearn is carting the waste bags over to the waste container for storage. Chris has informed me that it looks as if the waste container will be picked up on monday.

0830 I have set up five (5) air sampling pumps around the outside of the work

P 726450

area in order to collect samples during the final stages of abatement (fine cleaning).

time	Sample #	Location	L.P.M
0800	032092184 01	At HEPA Exhaust	7.5
0801	032092184 02	Adjacent to Consoller	7.5
0802	032092184 03	Next to GFI Panel	7.5
0802	032092184 04	At Entrance to Room	7.5
0804	032092184 05	Inside Clean Room	7.5

0815 I have been helped by Jeff Enilo of the Port Authority's AMCO office. I am returning his call to his office he is not in, I informed the people at AMD to inform Jeff that the work area will be ready for a pre-encapsulation visual inspection

0845 I have collected the certificates from all the workers that are on-site for NAC today. I will review the certificates and then record them into the on-site Log-Book.

	Name	S.S #	N.Y.C #	N.Y.S
supervisor	Chris Keane	121-42-4580	08143	AH89-0401
	James Palladino	062-58-5366	31679	AH91-0223
	Eddie Carter	072-48-1145	08054	AH88-3257

0935 I have spoken with Jeff Enilo of the Port Authority's AMCO office

Jeff will be coming to the site at approximately 1130hrs in order to perform a pre-encapsulation visual.

I (Bill Birnbaum) have entered the work area to conduct a second visual of the work area while inside, I will also smoke test all critical barriers as well as the flow of make up air through the Decontamination Facility.

I have exited the work area, I have passed my visual inspection. We will now await the arrival of Jeff Enilo, from the Port Authority.

Jeff Enilo from the Port Authority has arrived on-site. He is suiting up to enter the work area and I will enter with him and the supervisor from NAC.

The workers from NAC have gone on a lunch break.

Jeff, Jim and myself have entered the work area in order to conduct the pre-encapsulation visual inspection

We all are exiting the work area, Jeff has passed the work area and given the OK to NAC to encapsulate

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the work area.

1245 The workers are suiting up to enter the area to begin encapsulation.

1250 Jeff Enilo from the port Authority has left the work-site.

1345 The workers are starting to exit the work area. They have finished Encapsulating the work area. We will now wait approximately One (1) hour to let the encapsulant dry then take down the one layer of poly on the walls

1450 The workers have reentered the work area in order to take down and bag the layer of poly which is on the walls.

1535 The workers have completed taking down the first layer of Poly and are now exiting the work area.

1550 The Work crew from National Abatement Corp (NAC) has left the work-site for today.

1615 I have left the work-site, H+GCL is now off-site - William Bornbaum

Saturday March 21, 1992

2350 H+GCL is on-site William Bornbaum I am here tonight in order to collect post abatement clearance samples.

0030 I have gathered up all of the air sampling pumps and brought all nessecary equipment to the clear room in the Decontamination Facility.

0050 I have suited up and will start to carry all of the air sampling equipment into the work area. I will start the equipment after all of the pumps have been set up inside the work area.

0115 I have set up five (5) air sampling pumps inside the work area in order to collect clearance air sampling

time	Sample #	Location	LPM
0115	03229218401	Inside area by Decon	13.3
0116	03229218402	Inside north side	13.3
0116	03229218403	Inside center	13.3
0117	03229218404	Inside South side	13.3
0117	03229218405	Inside West side	13.3

0120 I have exited the work area all pumps are now running.

0335 I (Bill Bornbaum) have re-entered the work area in order to shut down the air sampling pumps.

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corp. Lavegine on a Lunch Break.

1230 The workers from National Abatement Corp (NAC) have returned from their Lunch Break and will now breakdown the Decontamination Facility.

1425 The Waste Hauler's truck has arrived on-site in order to pick up the waste Container

1645 There is a problem with releasing the waste Hauler from the site. Wilbur McNeil from the Port Authority's AMCD office needs to have a copy of the trucks registration

1730 The registration has been send via Fax. Wilbur has let the waste hauler leave the-site.

1800 The work crew from National Abatement Corp. has left the work-site. Wilbur McNeil from the Port Authority has left the work-site.

1840 The work crew from National has returned to the site they have apparently forgotten some of their equipment.

1915 I have left the work-site, Lt. Gal is now off-site. William Bond

W.E.B

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ATTACHMENT E
O.S.H.A. Personnel Air Sampling Results

American Airlines
JFK International Airport
Jamaica, New York 11430

GLOMAR CORP.
29-09 Queens Plaza North
Long Island City, New York 11101
(718) 786-6660

DATE RECEIVED : 03/13/92 CLIENT:

DATE ANALYZED : 03/13/92

SAMPLE CODE (S): AIAR-3/13/-001

SUBMITTED BY : CLIENT RE: NAC
HANGER 10
AMERICAN AIRLINES
OSHA PERSONAL AIR SAMPLES

TRANSACTION # : 2002/069

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

NIOSH PAT # 11101-004 ELAP# 10977 NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
AIAR 3/13/-001	JIM PALLADINO SS# 061-58-5366	663 (L)	5/100	**LOQ f/cc

Laboratory Signature

***NOTE ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

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GLOMAR CORP.
29-09 Queens Plaza North
Long Island City, New York 11101
(718) 786-6660

DATE RECEIVED : 03/12/92 CLIENT:

DATE ANALYZED : 03/12/92

SAMPLE CODE (S): AIAR-001 TO 002

SUBMITTED BY : CLIENT RE: JFK/NAC
HANGER 10
TRANSACTION # : 2002/066 OSHA AIR SAMPLE ANALYSIS

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

NIOSH PAT # 11101-004 ELAP# 10977 NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
AIAR-3/11/-001	JOSE YARSE SS# 115-70-7555	1134 (L)	12/100	.011 TWA
AIAR-3/12/-002	JOSE YARSE SS# 115-70-7555	1260 (L)	16/100	.015 TWA

Laboratory Signature

***NOTE: ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

P 726456

GLOMAR CORP.
29-09 Queens Plaza North
Long Island City, New York 11101
(718) 786-6660

DATE RECEIVED : 03/16/92 CLIENT:

DATE ANALYZED : 03/16/92

SAMPLE CODE (S): AIAR-3/16/-001

SUBMITTED BY : CLIENT RE: NAC
HANGER 10
AMERICAN AIRLINES
OSHA PERSONAL AIR SAMPLES

TRANSACTION # : 2002/069

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

NIOSH PAT # 11101-004 ELAP# 10977 NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
AIAR-3/16/-001	JIM PALLADINO SS# 061-58-5366	740 (L)	10./100	.007 f/cc

Laboratory Signature

***NOTE: ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

Work Copy Original
Fellow

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GLOMAR CORP.
29-09 Queens Plaza North
Long Island City, New York 11101
(718) 786-6660

DATE RECEIVED : 03/19/92 CLIENT:

DATE ANALYZED : 03/19/92

SAMPLE CODE (S): AIAR-3/17/-001

SUBMITTED BY : CLIENT RE: NAC
HANGER 10
AMERICAN AIRLINES
OSHA PERSONAL AIR SAMPLES

TRANSACTION # : 2002/069

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

NIOSH PAT # 11101-004 ELAP# 10977 NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
AIAR-3/17/-001	JIM PALLADINO SS# 061-58-5366	540 (L)	5/100	.004 f/cc

Laboratory Signature

***NOTE: ALL DATA AND MATERIAL SUPPLIED BY CLIENT.-
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

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GLOMAR CORP.
29-09 Queens Plaza North
Long Island City, New York 11101
(718) 786-6660

DATE RECEIVED : 03/19/92 CLIENT:

DATE ANALYZED : 03/19/92

SAMPLE CODE (S): AIAR-3/18/-001

SUBMITTED BY : CLIENT RE: NAC
HANGER 10
AMERICAN AIRLINES
OSHA PERSONAL AIR SAMPLES

TRANSACTION # : 2002/069

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

NIOSH PAT # 11101-004 ELAP# 10977 NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
AIAR-3/18/-001	JIM PALLADINO SS# 061-58-5366	504 (L)	6/100	.006 f/cc

Laboratory Signature

***NOTE: ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

GLOMAR CORP.
29-09 Queens Plaza North
Long Island City, New York 11101
(718) 786-6660

DATE RECEIVED : 03/20/92 CLIENT:

DATE ANALYZED : 03/20/92

SAMPLE CODE (S): AIAR-3/20/-001

SUBMITTED BY : CLIENT RE: NAC
HANGER 10
AMERICAN AIRLINES
OSHA PERSONAL AIR SAMPLES

TRANSACTION # : 2002/069

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

NIOSH PAT # 11101-004 ELAP# 10977 NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
AIAR-3/20/-001	JIM PALLADINO SS# 061-58-5366	891 (L)	3/100	.002 f/cc

Laboratory Signature

***NOTE ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

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ATTACHMENT F
Waste Manifests

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726461

Acc 19263

FORM 1: ASBESTOS WASTE MANIFEST (See Instructions on Back)

GENERATOR

1. Work Site Name and Mailing Address
American Airlines
J.F.K.I.A.
Hangar 10 Jamaica Queens

Owner's Name, Address, Phone No
Port Authority of NY and NJ
(718) 244-6464

2. Contractor's Name, Address, Phone No. (Operator)
National Abatement Corp.
100 Varick Street
New York, N.Y.
(212) 219-0880

3. Waste Disposal Site (WDS) Name, Location, Address, and Phone No.
Valley Landfill
Pleasant Valley Rd. Box 28
Irwin Pa. 15642
( )

4. Name and Address of Responsible NESHAPS Agency
U.S. EPA Asbestos Air Compliance Division, 26 Federal Plaza, Suite 1033, New York, N.Y.

5. Description of Materials (See Instructions)
Floor Tile, pipe insulation, poly tape, tracksuits.

6. & 7 Waste Containers and Quantities

Type	Number	Quantity	Units
DM	86	boxes	cubed
DP			
BA	60	Bags	Cubed 30 cubic yards

8. Special Handling Instructions and Additional Information

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this waste consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled; and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Printed/Typed Name & Title	Signature	Date
CHRIS KEANE - SUPERVISOR	[signature]	3/23/92

TRANSPORTER

10. Transporter 1 (Acknowledgement of Receipt of Materials)

Company Name & Address	Signature	Telephone No.
Asbestos Carting Corp. 1199 Randall AVE. Bronx, N.Y. 10474	[signature]	212-617-0771
	Printed Name: James B. Smith	Date
	Title: Driver	3/23/92

11. Transporter 2 (Acknowledgement of Receipt of Materials)

Company Name & Address	Signature	Telephone No.
[signature]	Printed Name: Scott Kling	Date
	Title: Driver	3-24

DISPOSAL SITE

12. Discrepancy Indication Space:

13. Waste Disposal Site Owner or Operator's Certification (Receipt of above Waste Except as Noted in 12)

Company Name & Address	Signature	Telephone No.
	Maryann Milcic	
	Printed Name: Maryann Milcic	Date
	Title: Gate Clerk	3-25-92

Project No. _____
Project Manager: _____
Form ____ of ____

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ASBESTOS CARTING CORPORATION

1199 RANDALL AVE
BRONX NEW YORK 10474
212/617-0771 FAX 212/901-3077

MANIFEST NO. 19263

DATE 03-17-92

NON - HAZARDOUS WASTE MANIFEST

D.C.C. 2A-189
DCA #482929

FRIABLE AT POINT OF ORIGIN, DOUBLE BAGGED AND MADE NON-FRIABLE FOR HANDLING AND TRANSPORTATION.

PORT AUTHORITY OF NY & NJ 1 WORLD TRADE CENTER NEW YORK NY _____ 718-483-2727
BUILDING OWNER'S NAME & MAILING ADDRESS — PHONE NO.

JFK AIRPORT HANGER #10 (AMERICAN AIRLINES) _____
SITE OF GENERATION (if different from mailing address) — DEPT. NO.

ASBESTOS CARTING CORP. 1199 RANDALL AVE. BRONX, NY 10474 _____ 2A-189 _____ 482929
ASBESTOS HAULER COMPANY NAME — DEC NO. — DCA NO.

ASBESTOS CARTING CORP. [signature] 2-6007-02005/1 _____ 1199 RANDALL AVE. BRONX, NY 10474 _____ 212-617-2771
TRANSFER STATION DISPOSAL FACILITY — PERMIT NO. (11 digits) — ADDRESS — PHONE NO.

VALLEY LANDFILL PLEASANT VALLEY ROAD RD 2 BOX 282A IRWIN, PA 15642 (412) 744-7446
DESIGNATED DISPOSAL FACILITY NAME, SITE ADDRESS, & TELEPHONE NO.

ROLL-OFF _____ (1) _____ 30 CYD _____ 30 CYD
TYPES OF CONTAINERS — NO. OF CONTAINERS — UNITS (WT./VOL.) — QUANTITY

INTERNATIONAL ASBESTOS REMOVAL INC _____
ABATEMENT COMPANY NAME

66-08 WOODSIDE AVENUE WOODSIDE NY 11377 _____ 718-335-5005
ABATEMENT COMPANY ADDRESS — PHONE NO.

PROGRAM MANAGER'S NAME — PROGRAM MANAGER'S AFFILIATION

CHRIS KEANE — SUPER — [signature] — 3-17-92
PRINT/TYPE NAME — TITLE — SIGNATURE — MO./DAY/YR.

BUILDING OWNER'S CERTIFICATION: I CERTIFY THAT THE ABOVE DESCRIBED WASTE CONTAINING ASBESTOS IS FULLY AND ACCURATELY DESCRIBED AND HAS BEEN THOROUGHLY WET DOWN, PACKAGED AND LABELED IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 16 - 117.1 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK AS AMENDED BY LOCAL LAW 21 OF 1987.

TRUCK LICENSE Ex. 1

ASBESTOS CARTING CORP. [signature] — DRIVER — [signature] — 3-24
PRINT/TYPE NAME ON BEHALF OF BUILDING OWNER — TITLE — SIGNATURE — MO./DAY/YR.

ASBESTOS HAULER #2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL AS DESCRIBED ABOVE

#7 Bags
DISCREPANCY INDICATION SPACE

Maryann Milcic — Gate Clerk — [signature] — 3-25-92
PRINT/TYPE NAME — TITLE — SIGNATURE — MO./DAY/YR.

DESIGNATED DISPOSAL FACILITY'S OWNER OR OPERATOR CERTIFICATION OF RECEIPT OF WASTE CONTAINING ASBESTOS COVERED BY THIS MANIFEST, EXCEPT AS NOTED IN THE DISCREPANCY INDICATION SPACE

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PA 3319 / 5-85

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos and Asbestos Containing Wastes Shipping Document

215.135
ACC 19263

GENERATOR	Name: Port Authority of New York, NJ Address: JFK IA Jamaica N.Y. Zip Code: 11430	Telephone No.: (212) 435-7000
TRANSPORTER	Name: ASBESTOS Carting Corp. Address: 1199 Randall Ave Bx N.Y. Zip Code: 10474	Telephone No.: ( ) Vehicle Permit No.: 20-184 Vehicle License Plate No.: Ex. 1 State
SECONDARY TRANSPORTER (If Applicable)	Name: Address: Zip Code:	Telephone No.: ( ) Vehicle Permit No.: Vehicle License Plate No.: State
SOLID WASTE DISPOSAL FACILITY (SWD)	Name: Valley Landfill Address: Pleasant Valley Rd Box 282A Irwin PA Zip Code: 15642	Facility Telephone No.: (412) 744-7446 SWD Facility State I.D. No.:

ASBESTOS MATERIAL DATA

TYPE OF ASBESTOS MATERIAL	PACKAGE TYPE	NO. OF PACKAGES	APPROXIMATE WEIGHT PER PACKAGE
1. Pipe Fitting (Insulation)	Cardboard Boxes	86 Box	60 Box
2. Floor Tile	6 mil Poly Box		
3.			

Approx. Total Shipment Weight:

(Print or Type)

CHRIS KEANE — SUPERVISOR — [signature] — 3/23/92
Generator's Representative's Name — Title — Signature — Date

This is to certify that the undersigned has received the above indicated waste materials for transport to the Solid Waste Disposal facility
(Print or type)

JAMES B SMITH — DRIVER — [signature] — 3/23/92
Transporter's Representative's Name — Title — Signature — Date

(Print or Type)

[signature] — DRIVER — [signature] — 3/24
Secondary Transporter's Representative's Name — Title — Signature — Date

This is to certify that the undersigned has received the above indicated waste materials for transport to the Solid Waste Disposal facility
(Print or type)

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Maryann Milcic — Site Clerk — Maryann Milcic — 21-31 [illegible]
Solid Waste Disposal Facility Representative's Name — Title — Signature — Date

IMPORTANT INSTRUCTIONS: This document must accompany the waste from the Generator to the final destination of disposal. Solid Waste Disposal Facility should forward a signed copy and indicate to the Port Authority of N.Y. & N.J. Environmental Management Division Asbestos Mgmt. Program, 25 Journal Square, Pathside—4th Floor, Jersey City, N.J. 07306 Attn: Supervisor.

[illegible] Transporter to Landfill: 2 yellow—EMD Office, 3 pink—Field Supervisor, 4 gold—Facility Project Manager

DEC #: 2A-189

FORM 1: ASBESTOS WASTE MANIFEST (See Instructions on Back)

GENERATOR

1. Work Site Name and Mailing Address
American Airlines
J.F.K.I.A. Hangar 10
Jamaica, N.Y.

Owner's Name, Address, Phone No
Port Authority of N.Y. and N.J.
(718) 244-6464

2. Contractor's Name, Address, Phone No. (Operator)
National Abatement Corp. (NAC)
100 Varick Street
New York, N.Y.
(212) 219-0880

3. Waste Disposal Site (WDS) Name, Location, Address, and Phone No.
Valley Landfill
Pleasant Valley Rd. Box 28
Irwin Pa. 15642
( )

4. Name and Address of Responsible NESHAPS Agency
U.S. EPA Asbestos Air Compliance Division, 26 Federal Plaza, Suite 1033, New York, N.Y.

5. Description of Materials (See Instructions)
6 mil Poly, Tape and Tyvek suits

6. & 7. Waste Containers and Quantities

Type	Number	Quantity	Units
DM			
DP			
BA	30 Bags 6 mil doubled		7 cubic yards

8. Special Handling Instructions and Additional Information

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this waste consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled; and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Printed/Typed Name & Title	Signature	Date
CHRIS KEANE - SUPERVISOR	Chris Keane	3/23/92

TRANSPORTER

10. Transporter 1 (Acknowledgement of Receipt of Materials)

Company Name & Address	Signature	Telephone No
Asbestos Carting Corp 1199 Randall AVE. Bronx, N.Y. 10474	Luis A. Vargas Printed Name: Luis A. Vargas Title: Driver	212-617-0771 Date 3/23/92

11. Transporter 2 (Acknowledgement of Receipt of Materials)

Company Name & Address	Signature	Telephone No
Scott Kling	Scott Kling Printed Name: Title:	Date 3-26

DISPOSAL SITE

12. Discrepancy Indication Space:

13. Waste Disposal Site Owner or Operator's Certification (Receipt of above Waste Except as Noted in 12)

Company Name & Address	Signature	Telephone No
	Maryann Milcic Printed Name: Maryann Milcic Title: Gate Clerk	Date 2-27-92

Project No. 1021-42
Project Manager:
Form 1 of 1

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ASBESTOS CARTING CORPORATION

1199 RANDALL AVE.
BRONX, NEW YORK 10474
212/617-0771 FAX 212/991-3977

MANIFEST NO. 19457

DATE 3-23-92

NON - HAZARDOUS WASTE MANIFEST

D.E.C. 2A-189
DOH 0462929

FRIABLE AT POINT OF ORIGIN, DOUBLE BAGGED AND MADE NON-FRIABLE FOR HANDLING AND TRANSPORTATION.

PORT AUTHORITY OF NY & NJ 2 WORLD TRADE CENTER NEW YORK, NY
BUILDING OWNER'S NAME & MAILING ADDRESS — PHONE NO.

J.F.K. AIRPORT HANGER 18 QUEENS, NY
SITE OF GENERATION (if different from mailing address) — DEPT. NO.

ASBESTOS CARTING CORP. 1199 RANDALL AVE. BRONX, NY 10474 — 2A-189 — 462929
ASBESTOS HAULER COMPANY NAME — DEC NO. — DOH NO.

ASBESTOS CARTING CORP. — 2-6087-00036/1 — 1199 RANDALL AVE. BRONX, NY 10474 — 212-617-0771
TRANSFER STATION DISPOSAL FACILITY — PERMIT NO. (11 digits) — ADDRESS — PHONE NO.

VALLEY LANDFILL PLEASANT VALLEY ROAD RD 2 BOX 2829 IRWIN, PA 15642 (412) 744-7446
DESIGNATED DISPOSAL FACILITY NAME, SITE ADDRESS, & TELEPHONE NO.

ROLL-OFF	( ) /	30 BAGS	30 BAGS (10 cyd)
TYPES OF CONTAINERS	NO. OF CONTAINERS	UNITS (WT./VOL.)	QUANTITY

INTERNATIONAL ASBESTOS REMOVAL INC.
ABATEMENT COMPANY NAME

66-06 WOODSIDE AVENUE WOODSIDE, NY 11377 — 718-335-0304
ABATEMENT COMPANY ADDRESS — PHONE NO.

PROGRAM MANAGER'S NAME		PROGRAM MANAGER'S AFFILIATION	
CHRIS KOANE	SUPERVISOR		3/23/92
PRINT/TYPE NAME	TITLE	SIGNATURE	MO./DAY/YR.

BUILDING OWNER'S CERTIFICATION: I CERTIFY THAT THE ABOVE DESCRIBED WASTE CONTAINING ASBESTOS IS FULLY AND ACCURATELY DESCRIBED AND HAS BEEN THOROUGHLY WET DOWN, PACKAGED AND LABELED IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 16 - 117.1 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK AS AMENDED BY LOCAL LAW 21 OF 1987.

TRUCK LICENSE Ex. 1

ASBESTOS CARTING CORP.			3-26
PRINT/TYPE NAME ON BEHALF OF BUILDING OWNER	TITLE	SIGNATURE	MO./DAY/YR.

ASBESTOS HAULER 12 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL AS DESCRIBED ABOVE

DISCREPANCY INDICATION SPACE			3-27-92
Marianne Milano	Gate Clerk	Marianne Milano	
PRINT/TYPE NAME	TITLE	SIGNATURE	MO./DAY/YR.

DESIGNATED DISPOSAL FACILITY'S OWNER OR OPERATOR CERTIFICATION OF RECEIPT OF WASTE CONTAINING ASBESTOS COVERED BY THIS MANIFEST, EXCEPT AS NOTED IN THE DISCREPANCY INDICATION SPACE

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THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
Asbestos and Asbestos Containing Wastes Shipping Document

215,135

GENERATOR	Name: Port Authority of New York & N.J. Address: JFK IA Jamaica N.Y. Zip Code 11430	Telephone No.: (212) 435-7000
TRANSPORTER	Name: Asbestos Curtain Corp Address: 1199 Randall Ave Bronx N.Y. Zip Code 10474	Telephone No.: ( ) Vehicle Permit No.: 24-189 Vehicle License Plate No.: Ex. 1 State
SECONDARY TRANSPORTER (If Applicable)	Name: Address: Zip Code	Telephone No.: ( ) Vehicle Permit No.: Vehicle License Plate No.: State
SOLID WASTE DISPOSAL FACILITY (SWD)	Name: Veolia Landfill Address: Pleasant Valley Rd Irwin Pa. Zip Code 15642	Facility Telephone No.: (412) 744-7446 SWD Facility State I.D. No.:

ASBESTOS MATERIAL DATA

	TYPE OF ASBESTOS MATERIAL	PACKAGE TYPE	NO. OF PACKAGES	APPROXIMATE WEIGHT PER PACKAGE
1.	Poly	6-mil	30 Bags	3 cubic yard
2.				
3.				

Approx. Total Shipment Weight:

(Print or Type) Chris Keane — Supervisor — Signature: Chris Keane — 3/23/92
Generator's Representative's Name — Title — Signature — Date

This is to certify that the undersigned has received the above indicated waste materials for transport to the Solid Waste Disposal facility
(Print or type) Luis A. Vargas — Driver — Signature: Luis A. Vargas — 3/23/92
Transporter's Representative's Name — Title — Signature — Date

(Print or Type) Scott King — Driver — Signature: Scott King — 3/25/
Secondary Transporter's Representative's Name — Title — Signature — Date

This is to certify that the undersigned has received the above indicated waste materials for transport to the Solid Waste Disposal facility
(Print or type) Marianne Miller — Site Clerk — Signature: Marianne Miller — 3/27/92
Solid Waste Disposal Facility Representative's Name — Title — Signature — Date

IMPORTANT INSTRUCTIONS: This document must accompany the waste from the Generator to the final destination of disposal. Solid Waste Disposal Facility should forward signed copy and indicate to the Port Authority of N.Y. & N.J. Environmental Management Division Asbestos Mgmt. Program, 25 Journal Square, Pamrapo—4th Floor, Jersey City, N.J. 07306 Attn: Supervisor.

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Laboratory Testing Services

LAB. NO.: 92-05572(N3)

REPORT OF
BULK SAMPLE ANALYSIS
FOR

HYGIENETICS, INC.
261 MADISON AVENUE
NEW YORK, NEW YORK 10016

AT

AMERICAN AIRLINES
HANGAR 10

AUGUST 12, 1992

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720

NVLAP

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TRA#
Y-6158-A

Laboratory Testing Services

LAB. NO.: 92-05572(N3)

CLIENT: Hygienetics, Inc.
261 Madison Avenue
New York, New York 10001
Attention: Mr. Bob Pourro

P.O. #: 7021.42

MATERIAL: Bulk Sample Analysis

1.0 BACKGROUND:
Laboratory Testing Services, Inc. performed bulk sample analysis on three (3) samples received from Hygienetics, Inc., 261 Madison Avenue, New York, New York.

2.0 PROCEDURE:
Analysis of friable samples was done in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020, Dec. 1982).

This method utilizing Polarized Light Microscopy is applicable to all bulk samples of friable insulation materials submitted for identification and quantification of asbestos components.

Analysis of non-friable materials is performed by a modified version of (EPA-600/M4-82-020). Non-friable substances are not within the scope of the EPA method. Quantification of asbestos in these samples may deviate from the accurate range normally obtained from (EPA/600/M4-82-020).

3.0 APPLICABLE QUALIFICATIONS:
Our Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis. Our laboratory has been assigned NVLAP Laboratory Code Number 1332. This program is performed under the United States Department of Commerce, National Institute of Standards and Technology (formerly National Bureau of Standards), Gaithersburg, Maryland.

Laboratory Testing Services, Inc. is an approved laboratory in the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP Identification # 10837).

4.0 RESULTS:
The following results were obtained from our tests.

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NVLAP

P 726469

Laboratory Testing Services

METHOD: 1) EPA-600/M4-82-020 / Polarized Light Microscopy
2) Modified EPA-600/M4-82-020 / Polarized Light Microscopy *

IDENTIFYING INFORMATION:
PROJECT NAME: American Airlines
CLIENT: Hygienetics, Inc.
ATTENTION: Mr. Bob Pourro

PROJECT NO.: 5572
LAB.NO.: 92-05572(N3)

SAMPLE ORIGINATION:
SAMPLING AGENCY: Hygienetics, Inc.
SAMPLING SITE: American Airlines, Hangar 10
SAMPLING DATE: 06/30/92
NO. OF SAMPLES: Three (3)

DATE RECEIVED IN LAB.: 07/01/92
DATE ANALYZED: 07/01/92

RESULTS:

SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE IDENTIFICATION	ASBESTOS CONTENT (% BY VOLUME)	ASBESTOS TYPE	OTHER COMPONENTS
063092-01	92B3683	WHITE,1	PIPE FITTING INSULATION	40	CHRYSOTILE	FIBROUS GLASS 30%, CELLULOSE 10%, BINDER & OPAQUES 20%
063092-02	92B3684	WHITE,1	PIPE FITTING INSULATION	35	CHRYSOTILE	FIBROUS GLASS 40%, CELLULOSE 10%, BINDER & OPAQUES 15%
063092-03	92B3685	WHITE,1	PIPE FITTING INSULATION	35	CHRYSOTILE	FIBROUS GLASS 30%, CELLULOSE 15%, BINDER & OPAQUES 20%

Melvin Tiell, Ph.D.
Laboratory Manager

ND = None Detected
*Non-friable substances are not within the scope of the EPA method for bulk asbestos analysis. Quantification of asbestos in these samples may deviate from the accuracy range normally obtained from EPA/600/M4-82-020.

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Laboratory Testing Services

LAB. NO.: 92-05572(N3)

5.0 CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young, Ph.D.
Vice President
Chief Operating Officer

David C. Harvey
President

aj

Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.

Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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LAB. NO.: 92-05572(N3)

APPENDIX A

CHAIN OF CUSTODY RECORDS

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L-12-12

ASBESTOS BULK SAMPLE DATA FORM

BLDG. NAME & ADDRESS: American Airlines Hangar 10

	SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FUNCTION CODE	TYPE CODE
1	06309201 GP	B	1	Pipe Fitting Insulation		
2	06309202 GP	B	1	" " "		
3	06309203 GP	B	1	" " "		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

ACCOUNTABILITY RECORD SHEET 1 OF 1

REQUESTED COMPLETION DATE: 7-1-92
JOB NO.: 2021.42 BATCH NO: 12999
CLIENT NAME: American Airlines
SAMPLER'S NAME: G. Pelletier
SIGNATURE: [signature]
DATE: 6-30-92 TIME COMPLETED: 4:45
DELIVERED TO LAB BY: UPS

LAB NAME: Laboratory Testing Services
ADDRESS:
RECEIVED BY: [signature]
DATE: 7/1/92 TIME: 10:45 AM INITIALS: MT
ANALYZED BY: TIME:
LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL: [signature]

ANALYTICAL LABORATORY RESULTS

	LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS						
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

COMMENTS

ADDITIONAL COMMENTS & NOTES: Need Results by 7-1-92 1:00pm Fax to HGCL "Rush" Gary Pelletier 212 983 8795

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST - TAPE SAMPLE SD/V = SURFACE DUST - VACUUM SAMPLE SD/G = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBEROUS MATERIAL OT = OTHER	NO SAMPLES: 3 RATE: 30 SUBTOTAL: 90 OUTSIDE LAB AUTHORIZATION

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APPENDIX B

METHOD TYPE FORM

Laboratory Testing Services

LAB.NO.: 92-05572(N3)

Methodology Explanation:

Laboratory Testing Services, Inc. follows guidelines of EPA-600/M4-82-020 for the analysis of bulk samples for asbestos by polarized light microscopy. This method was prepared by the EPA to set criteria for the analysis of friable substances. (Easily crumbled or reduced to a powder by hand pressure). Friable samples typically include pipe wrap and pipe joint cement, and usually require no special preparation prior to analysis by PLM. Occasionally, samples of non-friable, and sometimes friable, materials are submitted for analysis for asbestos which require special preparations prior to analysis by PLM. Laboratory Testing Services, Inc. utilizes the following methods to analyze substances which require a deviation from EPA method 600/M4-82-020:

A) Low Temperature Ashing - The sample is placed in a furnace at low temperature (less than 350°c) to burn off large amounts of cellulose and other combustible materials. Asbestos is a mineral and will not burn off. This method facilitates the detection of asbestos in materials with small amounts of asbestos or those with a large amount of cellulose (certain pipe wraps and ceiling tile).

B) Milling - Non-friable substances are placed in a mortar and pestle or "Wiley" mill and are pulverized.

C) Acid Wash - The sample was washed in warm dilute Hydrochloric Acid or Acetic Acid to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

D) Hexametaphosphate Wash - The sample was washed in a 1% Hexametaphosphate solution to remove calcium carbonate, gypsum and/or bassanite (plaster) deposits.

E) Acetone/Tetrahydrofuran dissolution - The sample was placed in a glass vial in one of the above solutions and allowed to dissolve. The solution is then filtered or placed directly on the glass slide and analyzed in appropriate refractive index fluid.

When a deviation from EPA Method 600-M4-82-020 was used to analyze a sample, this is noted in column 3 of Laboratory Testing Services, Inc. results reporting forms (under "color, method"). For example, if ashing was used as part of the analytical process, this is signified as "2-A" in the method column. If milling was used as part of the Analytical process, this is signified as "2-B" in the method column.

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LAB.NO.: 92-05572(N3)

All percentage determinations, unless otherwise noted, were derived utilizing the visual estimate methodology. For most suspect materials, the visual estimate methodology is sufficient to determine a material to be greater than 1% asbestos and, therefore, an asbestos containing material. On November 20, 1990, an amendment to the NESHAP for asbestos (Federal Register, Volume 55, Number 224) was made. This amendment included a requirement to perform "point counting" to quantify asbestos in samples where the asbestos content is below ten percent. "Point Counting" is a time consuming process. Additional charges are levied on samples point counted due to the extended time required to perform the analysis.

On May 8, 1991, the United States Environmental Protection Agency issued a clarification memorandum to the NESHAP requirement for point counting samples visually estimated below 10% asbestos. The following points were clarified:

a) A sample in which no asbestos is detected by polarized light microscopy does not have to be point counted.

b) If the analyst detects asbestos in the sample and estimates the amount by visual estimation to be less than 10%, the <u>OWNER OR OPERATOR OF THE BUILDING</u> may:

   1) elect to assume the amount to be greater than 1% and treat the material as ACM or

   2) require verification of the amount by point counting.

c) If a result obtained by point counting is different from a result obtained by visual estimation, the point count result will be used.

Laboratory Testing Services, Inc. will not perform quantification of asbestos by point counting unless desired by the client. LTS., Inc. assumes that, if our client is not the owner or operator of the building from which the sample was obtained, the decision not to point count samples visually estimated as less than 10% asbestos was not reached by our client without the consent of the building owner or operator.

In addition, for samples which required ashing and/or milling (methodology explanations A and B as listed on the previous page) to detect the asbestos, point counting may not be possible because such actions alter the physical composition of the sample. Results obtained by point counting such treated samples will not be accurate.

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NYSAG

Laboratory Testing Services

DETERMINATION OF ASBESTOS IN RESILIENT FLOOR TILE*

LAB. NO.: 92-05572(N3)

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formations incorporated chrysotile, and over a period of time the proportion was progressively reduced. Resilient floor tiles are now manufactured which do not include any added asbestos. Therefore, floor tiles submitted for determination of their asbestos content may contain a range of concentrations, or they may contain no asbestos at all.

Resilient floor tile poses a difficult problem for the PLM analyst, because the matrix material and the pigments interfere with the ability to determine the optical properties of any asbestos fibers present, and in many floor tiles, the majority of the asbestos has been comminuted to dimensions below the limits of optical visibility. Because of these problems, false-negative results have often been reported, or the amount of asbestos has been significantly under-estimated.

Although in some tiles chrysotile fiber bundles can be seen at a fractured surface, this is often not the case, and more sophisticated sample preparation techniques must be used. However, from the perspective of a routine analytical laboratory, a decision must be made as to how much labor should be expended on an analysis by PLM, if after a significant effort, the results of the analysis may still turn out to be inconclusive. It has been our experience that the PLM technique **cannot** be used to demonstrate the **absence** of asbestos in resilient floor tiles, although it can sometimes be used to demonstrate its **presence**. Accordingly, if asbestos fibers are not detected by a simple stereo-microscopy examination of a fracture surface, or by examination after THC or acetone dissolution, the TEM procedure is recommended. If quantification of the asbestos is required, the TEM procedure is also recommended.*

Samples of floor tile that are submitted to LTS. Inc. are fractured and examined using a stereo-binocular microscope. If large fiber bundles are seen emerging from the fractured surface, they are then transferred to a microscope slide and analyzed for asbestos by routine PLM and dispersion staining. If the fibers analyzed for asbestos are positive, the analyst may report the results as greater than 1%, thereby establishing the floor tile to be asbestos containing material.

If fiber bundles are not detected using a stereo-binocular microscope, the sample is then placed in a glass vial and dissolved with Tetrahydrofuran or acetone as outlined in LTS Methodology explanation 2E. If asbestos is still not detected in the sample, the results are reported as "None Detected" with a recommendation to proceed to the TEM method.

*"Determination of Asbestos in Resilient Floor Tile" was written by Dr. Eric Chatfield of Chatfield Technical Consulting Limited, Ontario, Canada. Laboratory Testing Services, Inc. has adopted Dr. Chatfield's methodology. For further information on the TEM Methodology, please contact Laboratory Testing Services, Inc.

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NVLAP

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(G)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7B

DATE SAMPLED: 05/05/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A32288	05059338515 INSIDE AREA 7B, ADJACENT TO COLUMN LINE #7	17.2	0.004
02	93A32289	05059338516 INSIDE AREA 7B, ADJACENT TO COLUMN LINE #8	86.6	0.018
03	93A32290	05059338517 INSIDE AREA 7B, ADJACENT TO COLUMN LINE #8	52.2	0.011
04	93A32291	05059338518 INSIDE AREA 7B, ADJACENT TO COLUMN LINE #9	<12.7	<0.003
05	93A32292	05059338519 INSIDE AREA 7B, ADJACENT TO COLUMN LINE #9	<12.7	<0.003
06	93A32293	05059338520 OUTSIDE AREA 7B, ADJACNET TO COLUMN LINE #10	<12.7	<0.003
07	93A32294	05059338521 OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE #11	<12.7	<0.003
08	93A32295	05059338522 OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE #11	<12.7	<0.003
09	93A32296	05059338523 OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE #12	31.8	0.007
10	93A32297	05059338524 OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE #12	<12.7	<0.003
11	93A32298	05059338525 FIELD BLANK #1	< LOD	
12	93A32299	05059338526 FIELD BLANK #2	< LOD	

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(H)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7C

DATE SAMPLED: 04/28/93
DATE RECEIVED IN LAB: 04/29/93
DATE ANALYZED: 04/29/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30020	04289338521-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 10	14.0	0.003
02	93A30021	04289338522-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 11	<12.7	<0.003
03	93A30022	04289338523-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 11	<12.7	<0.003
04	93A30023	04289338524-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 12	<12.7	<0.003
05	93A30024	04289338525-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 12	<12.7	<0.003
06	93A30025	04289338526-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 7	<12.7	<0.003
07	93A30026	04289338527-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 8	<12.7	<0.003
08	93A30027	04289338528-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 8	<12.7	<0.003
09	93A30028	04289338529-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 9	<12.7	<0.003
10	93A30029	04289338530-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 9	<12.7	<0.003
11	93A30030	04289338531-FIELD BLANK #1	< LOD	-----
12	93A30031	04289338532-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(O)
LAB.NO.: 93-06766(P-10)
DATE: 04/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7D

DATE SAMPLED: 05/10/93
DATE RECEIVED IN LAB: 05/11/93
DATE ANALYZED: 05/11/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A33526	05109338528 INSIDE AREA 7D, ADJACENT TO COLUMN LINE #14	52.9	0.011
02	93A33527	05109338529 INSIDE AREA 7D, ADJACENT TO COLUMN LINE #15	<12.7	<0.003
03	93A33528	05109338530 INSIDE AREA 7D, ADJACENT TO COLUMN LINE #15	<12.7	<0.003
04	93A33529	05109338531 INSIDE AREA 7D, ADJACENT TO COLUMN LINE #16	<12.7	<0.003
05	93A33530	05109338532 INSIDE AREA 7D, ADJACENT TO COLUMN LINE #16	<12.7	<0.003
06	93A33531	05109338533 OUTSIDE AREA 7D, ADJACENT TO COLUMN LINE #21	<12.7	<0.003
07	93A33532	05109338534 OUTSIDE AREA 7D, ADJACENT TO COLUMN LINE #21	<12.7	<0.003
08	93A33533	05109338535 OUTSIDE AREA 7D, ADJACENT TO COLUMN LINE #22	17.8	0.004
09	93A33534	05109338536 OUTSIDE AREA 7D, ADJACENT TO COLUMN LINE #22	<12.7	<0.003
10	93A33535	05109338537 OUTSIDE AREA 7D, ADJACENT TO COLUMN LINE #23	<12.7	<0.003
11	93A33536	05109338538 FIELD BLANK #1	< LOD	---
12	93A33537	05109338539 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(P)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7F

DATE SAMPLED: 05/13/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A35336	05139338501 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #21	<12.7	<0.003
02	93A35337	05139338502 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #22	<12.7	<0.003
03	93A35338	05139338503 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #22	<12.7	<0.003
04	93A35339	05139338504 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #23	<12.7	<0.003
05	93A35340	05139338505 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #23	<12.7	<0.003
06	93A35341	05139338506 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #10	<12.7	<0.003
07	93A35342	05139338507 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #11	<12.7	<0.003
08	93A35343	05139338508 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #11	<12.7	<0.003
09	93A35344	05139338509 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #12	<12.7	<0.003
10	93A35345	05139338510 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #12	<12.7	<0.003
11	93A35346	05139338511 FIELD BLANK #1	< LOD	---
12	93A35347	05139338512 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7A

DATE SAMPLED: 04/22/93
DATE RECEIVED IN LAB: 04/23/93
DATE ANALYZED: 04/23/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20547	04229338506-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 3	<12.7	<0.004
02	93A20548	04229338507-INSIDE AREA 7A, BETWEEN COLUMN LINE 3 AND 4	<12.7	<0.004
03	93A20549	04229338508-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 4	<12.7	<0.004
04	93A20550	04229338509-INSIDE AREA 7A, BETWEEN COLUMN LINE 4 AND 5	<12.7	<0.004
05	93A20551	04229338510-INSIDE AREA 7A, BETWEEN COLUMN LINE 5 AND 6	<12.7	<0.004
06	93A20552	04229338511-OUTSIDE AREA 7A, BETWEEN COLUMN LINE 6 AND 7	<12.7	<0.004
07	93A20553	04229338512-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 7	<12.7	<0.004
08	93A20554	04229338513-OUTSIDE AREA 7A, BETWEEN COLUMN LINE 7 AND 8	<12.7	<0.004
09	93A20555	04229338514-OUTSIDE AREA 7A, ADJACENT TO COLUMN 8	<12.7	<0.004
10	93A20556	04229338515-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 9	<12.7	<0.004
11	93A20557	04229338516-FIELD BLANK #1	< LOD	-----
12	93A20558	04229338517-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(E)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7A

DATE SAMPLED: 04/27/93
DATE RECEIVED IN LAB: 04/29/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30142	04279338501-ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A30143	04279338502-ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A30144	04279338503-INSIDE AREA 7A	<12.7	<0.003
04	93A30145	04279338504-AREA 7B	<12.7	<0.003
05	93A30146	04279338505-OUTSIDE OF BUILDING	<12.7	<0.003
06	93A30147	04279338506-ADJACENT TO PERSONAL D/F	<12.7	<0.003
07	93A30148	04279338507-ADJACENT TO WASTE D/F	22.9	0.005
08	93A30149	04279338508-INSIDE AREA 7A	14.0	0.003
09	93A30150	04279338509-AREA 7B	70.7	0.016
10	93A30151	04279338510-OUTSIDE OF BUILDING	<12.7	<0.003
11	93A30152	04279338511-FIELD BLANK #1	< LOD	-----
12	93A30153	04279338512-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(F)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7A

DATE SAMPLED: 04/28/93
DATE RECEIVED IN LAB: 04/29/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30162	04289338509-ADJACENT TO PERSONAL D/F	80.3	0.022
02	93A30163	04289338510-ADJACENT TO WASTE D/F	<12.7	<0.004
03	93A30164	04289338511-INSIDE AREA 7A	<12.7	<0.004
04	93A30165	04289338512-AREA 7B	<12.7	<0.004
05	93A30166	04289338513-OUTSIDE OF BUILDING	<12.7	<0.004
06	93A30167	04289338514-ADJACENT TO PERSONAL D/F	<12.7	<0.004
07	93A30168	04289338515-ADJACENT TO WASTE D/F	<12.7	<0.004
08	93A30169	04289338516-INSIDE AREA 7A	<12.7	<0.004
09	93A30170	04289338517-AREA 7B	48.4	0.012
10	93A30171	04289338518-OUTSIDE OF BUILDING	14.0	0.003
11	93A30172	04289338519-FIELD BLANK #1	< LOD	-----
12	93A30173	04289338520-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(K)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7B

DATE SAMPLED: 04/29/93
DATE RECEIVED IN LAB: 04/30/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30554	04299338501-INSIDE AREA 7B, ADJACENT TO COLUMN LINE 7	53.5	0.015
02	93A30555	04299338502-INSIDE AREA 7B, ADJACENT TO COLUMN LINE 8	24.2	0.007
03	93A30556	04299338503-INSIDE AREA 7B, ADJACENT TO COLUMN LINE 8	<12.7	<0.004
04	93A30557	04299338504-INSIDE AREA 7B, ADJACENT TO COLUMN LINE 9	<12.7	<0.004
05	93A30558	04299338505-INSIDE AREA 7B, ADJACENT TO COLUMN LINE 9	19.1	0.005
06	93A30559	04299338506-OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE 10	<12.7	<0.004
07	93A30560	04299338507-OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE 11	<12.7	<0.004
08	93A30561	04299338508-OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE 11	<12.7	<0.004
09	93A30562	04299338509-OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE 12	19.1	0.006
10	93A30563	04299338510-OUTSIDE AREA 7B, ADJACENT TO COLUMN LINE 12	15.3	0.004
11	93A30564	04299338511-FIELD BLANK #1	< LOD	-----
12	93A30565	04299338512-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719120

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(I)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7B

DATE SAMPLED: 04/29/93
DATE RECEIVED IN LAB: 04/30/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30603	04299338537-ADJACENT TO PERSONAL D/F	19.1	0.006
02	93A30604	04299338538-ADJACENT TO WASTE D/F	103.2	0.003
03	93A30605	04299338539-INSIDE AREA 7B	<12.7	<0.004
04	93A30606	04299338540-AREA 7A	<12.7	<0.004
05	93A30607	04299338541-AREA 7C	<12.7	<0.004
06	93A30608	04299338542-OUTSIDE OF BUILDING	23.6	0.007
07	93A30609	04299338543-ADJACENT TO PERSONAL D/F	40.8	0.010
08	93A30610	04299338544-ADJACENT TO WASTE D/F	44.6	0.011
09	93A30611	04299338545-INSIDE AREA 7B	<12.7	<0.003
10	93A30612	04299338546-AREA 7A	42.7	0.011
11	93A30613	04299338547-AREA 7C	65.0	0.017
12	93A30614	04299338548-OUTSIDE OF BUILDING	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(D)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Fourteen (14)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7B

DATE SAMPLED: 05/03/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A31914	05039338508 ADJACENT TO PERSONAL D/F	68.2	0.015
02	93A31915	05039338509 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A31916	05039338510 INSIDE AREA 7B	23.6	0.005
04	93A31917	05039338511 AREA 7A	19.1	0.004
05	93A31918	05039338512 AREA 7C	27.4	0.006
06	93A31919	05039338513 OUTSIDE OF BUILDING	16.6	0.004
07	93A31920	05039338514 ADJACENT TO PERSONAL D/F	<12.7	<0.003
08	93A31921	05039338515 ADJACENT TO WASTE D/F	93.3	0.021
09	93A31922	05039338516 INSIDE AREA 7B	<12.7	<0.003
10	93A31923	05039338517 AREA 7A	80.3	0.018
11	93A31924	05039338518 AREA 7C	<12.7	<0.003
12	93A31925	05039338519 OUTSIDE OF BUILDING	38.2	0.008
13	93A31926	05039338520 FIELD BLANK #1	< LOD	---
14	93A31927	05039338521 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(E)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7B

DATE SAMPLED: 05/04/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A31973	05049338513 ADJACENT TO PERSONAL D/F	22.9	0.005
02	93A31974	05049338514 ADJACENT TO WASTE D/F	54.1	0.013
03	93A31975	05049338515 INSIDE AREA 7B	57.0	0.013
04	93A31976	05049338516 AREA 7A	22.9	0.005
05	93A31977	05049338517 AREA 7C	<12.7	<0.003
06	93A31978	05049338518 OUTSIDE OF BUILDING	35.7	0.008
07	93A31979	05049338519 FIELD BLANK #1	< LOD	---
08	93A31980	05049338520 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7C

DATE SAMPLED: 04/26/93
DATE RECEIVED IN LAB: 04/26/93
DATE ANALYZED: 04/27/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A29239	04269338504-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 10	<12.7	<0.004
02	93A29240	04269338505-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 11	<12.7	<0.004
03	93A29241	04269338506-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 12	<12.7	<0.004
04	93A29242	04269338507-INSIDE AREA 7C, ADJACENT TO COLUMN LINE 12	38.2	0.011
05	93A29243	04269338508-INSIDE AREA 7C, ADJAENT TO COLUMN LINE 13	24.2	0.007
06	93A29244	04269338509-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 7	39.5	0.016
07	93A29245	04269338510-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 7	<12.7	<0.004
08	93A29246	04269338511-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 8	<12.7	<0.004
09	93A29247	04269338512-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 8	<12.7	<0.004
10	93A29248	04269338513-OUTSIDE AREA 7C, ADJACENT TO COLUMN LINE 9	<12.7	<0.004
11	93A29249	04269338514-FIELD BLANK #1	< LOD	-----
12	93A29250	04269338515-FIELD BLANK #2	< LOD	-----

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(D)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Fourteen (14)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7C

DATE SAMPLED: 04/26/93
DATE RECEIVED IN LAB: 04/29/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30128	04269338516-ADJACENT TO PERSONAL D/F	<12.7	<0.004
02	93A30129	04269338517-ADJACENT TO WASTE D/F	<12.7	<0.004
03	93A30130	04269338518-INSIDE AREA 7C	<12.7	<0.004
04	93A30131	04269338519-AREA 7B	<12.7	<0.004
05	93A30132	04269338520-AREA 7D	<12.7	<0.004
06	93A30133	04269338521-OUTSIDE OF BUILDING	<12.7	<0.004
07	93A30134	04269338522-ADJACENT TO PERSONAL D/F	<12.7	<0.004
08	93A30135	04269338523-ADJACENT TO WASTE D/F	20.4	0.006
09	93A30136	04269338524-INSIDE AREA 7C	<12.7	<0.004
10	93A30137	04269338525-AREA 7B	<12.7	<0.004
11	93A30138	04269338526-AREA 7D	<12.7	<0.004
12	93A30139	04269338527-OUTSIDE OF BUILDING	<12.7	<0.004
13	93A30140	04269338528-FIELD BLANK #1	< LOD	-----
14	93A30141	04269338529-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(G)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7C

DATE SAMPLED: 04/28/93
DATE RECEIVED IN LAB: 04/29/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30154	04289338501-ADJACENT TO PERSONAL D/F	42.0	0.011
02	93A30155	04289338502-ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A30156	04289338503-INSIDE AREA 7C	17.2	0.005
04	93A30157	04289338504-AREA 7B	<12.7	<0.003
05	93A30158	04289338505-AREA 7D	24.8	0.007
06	93A30159	04289338506-OUTSIDE OF BUILDING	<12.7	<0.003
07	93A30160	04289338507-FIELD BLANK #1	< LOD	-----
08	93A30161	04289338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7D

DATE SAMPLED: 05/03/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A31851	05039338522 INSIDE AREA 7D, ADJACENT TO LINE COLUMN #14	15.3	0.003
02	93A31852	05039338523 INSIDE AREA 7D, ADJACENT TO LINE COLUMN #14	<12.7	<0.003
03	93A31853	05039338524 INSIDE AREA 7D, ADJACENT TO LINE COLUMN #15	78.3	0.018
04	93A31854	05039338525 INSIDE AREA 7D, ADJACENT TO LINE COLUMN #15	16.6	0.004
05	93A31855	05039338526 INSIDE AREA 7D, ADJACENT TO LINE COLUMN #16	22.9	0.005
06	93A31856	05039338527 OUTSIDE AREA 7D, ADJACENT TO LINE COLUMN #10	<12.7	<0.003
07	93A31857	05039338528 OUTSIDE AREA 7D, ADJACENT TO LINE COLUMN #11	97.5	0.022
08	93A31858	05039338529 OUTSIDE AREA 7D, ADJACENT TO LINE COLUMN #11	<12.7	<0.003
09	93A31859	05039338530 OUTSIDE AREA 7D, ADJACENT TO LINE COLUMN #11	43.4	0.010
10	93A31860	05039338531 OUTSIDE AREA 7D, ADJACENT TO LINE COLUMN #12	<12.7	<0.003
11	93A31861	05039338532 FIELD BLANK #1	< LOD	---
12	93A31862	05039338533 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(F)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7D

DATE SAMPLED: 05/04/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A32015	05049338521 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A32016	05049338522 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A32017	05049338523 INSIDE AREA 7D	<12.7	<0.003
04	93A32018	05049338524 AREA 7C	<12.7	<0.003
05	93A32019	05049338525 AREA 7E	<12.7	<0.003
06	93A32020	05049338526 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A32021	05049338527 FIELD BLANK #1	< LOD	---
08	93A32022	05049338528 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(H)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Fourteen (14)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7D

DATE SAMPLED: 05/05/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A32201	05059338501 ADJACENT TO PERSONAL D/F	15.3	0.004
02	93A32202	05059338502 ADJACENT TO WASTE D/F	15.3	0.004
03	93A32203	05059338503 INSIDE AREA 7D	<12.7	<0.003
04	93A32204	05059338504 AREA 7C	123.6	0.032
05	93A32205	05059338505 AREA 7E	15.9	0.004
06	93A32206	05059338506 OUTSIDE OF BUILDING	21.0	0.005
07	93A32207	05059338507 ADJACENT TO PERSONAL D/F	80.3	0.021
08	93A32208	05059338508 ADJACENT TO WASTE D/F	93.0	0.024
09	93A32209	05059338509 INSIDE AREA 7D	22.9	0.006
10	93A32210	05059338510 AREA 7C	57.3	0.015
11	93A32211	05059338511 AREA 7E	34.4	0.009
12	93A32212	05059338512 OUTSIDE OF BUILDING	12.7	0.003
13	93A32213	05059338513 FIELD BLANK #1	< LOD	---
14	93A32214	05059338514 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719129

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(J)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7D

DATE SAMPLED: 05/06/93
DATE RECEIVED IN LAB: 05/09/93
DATE ANALYZED: 05/10/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A33237	05069338501 ADJACENT TO PERSONAL D/F	13.4	0.004
02	93A33238	05069338502 ADJACENT TO WASTE D/F	<12.7	<0.004
03	93A33239	05069338503 INSIDE AREA 7D	<12.7	<0.004
04	93A33240	05069338504 AREA 7C	<12.7	<0.004
05	93A33241	05069338505 AREA 7E	<12.7	<0.004
06	93A33242	05069338506 OUTSIDE OF BUILDING	OVERLOADED	
07	93A33243	05069338507 FIELD BLANK #1	< LOD	
08	93A33244	05069338508 FIELD BLANK #2	< LOD	

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(I)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7E

DATE SAMPLED: 05/05/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A32300	05059338527 INSIDE AREA 7E, ADJACENT TO COLUMN LINE #17	114.6	0.032
02	93A32301	05059338528 INSIDE AREA 7E, ADJACENT TO COLUMN LINE #18	86.6	0.024
03	93A32302	05059338529 INSIDE AREA 7E, ADJACENT TO COLUMN LINE #18	<12.7	<0.004
04	93A32303	05059338530 INSIDE AREA 7E, ADJACENT TO COLUMN LINE #19	17.2	0.005
05	93A32304	05059338531 INSIDE AREA 7E, ADJACENT TO COLUMN LINE #19	73.9	0.021
06	93A32305	05059338532 OUTSIDE AREA 7E, ADJACENT TO COLUMN LINE #14	79.0	0.023
07	93A32306	05059338533 OUTSIDE AREA 7E, ADJACENT TO COLUMN LINE #15	42.0	0.012
08	93A32307	05059338534 OUTSIDE AREA 7E, ADJACENT TO COLUMN LINE #15	<12.7	<0.004
09	93A32308	05059338535 OUTSIDE AREA 7E, ADJACENT TO COLUMN LINE #16	112.1	0.032
10	93A32309	05059338536 OUTSIDE AREA 7E, ADJACENT TO COLUMN LINE #16	<12.7	<0.004
11	93A32310	05059338537 FIELD BLANK #1	< LOD	---
12	93A32311	05059338538 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(K)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7E

DATE SAMPLED: 05/06/93
DATE RECEIVED IN LAB: 05/09/93
DATE ANALYZED: 05/10/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A33245	05069338509 ADJACENT TO PERSONAL D/F	<12.7	<0.004
02	93A33246	05069338510 ADJACENT TO WASTE D/F	<12.7	<0.004
03	93A33247	05069338511 INSIDE AREA 7E	<12.7	<0.004
04	93A33248	05069338512 AREA 7D	36.9	0.012
05	93A33249	05009338513 AREA 7E	24.2	0.008
06	93A33250	05069338514 OUTSIDE OF BUILDING	65.6	0.021
07	93A33251	05069338515 FIELD BLANK #1	< LOD	---
08	93A33252	05069338516 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(M)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7E

DATE SAMPLED: 05/10/93
DATE RECEIVED IN LAB: 05/11/93
DATE ANALYZED: 05/11/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A33683	05109338501 ADJACENT TO PERSONAL D/F	161.9	0.050
02	93A33684	05109338502 ADJACENT TO WASTE D/F	<12.7	<0.004
03	93A33685	05109338503 INSIDE AREA 7E	<12.7	<0.004
04	93A33686	05109338504 AREA 7D	15.3	0.005
05	93A33687	05109338505 AREA 7F	19.1	0.006
06	93A33688	05109338506 OUTSIDE OF BUILDING	<12.7	<0.004
07	93A33689	05109338507 FIELD BLANK #1	< LOD	---
08	93A33690	05109338508 FIELD BLANK #2	< LOD	---

< = LESS THAN
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Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719133

laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(N)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase III, Work Area 7F

DATE SAMPLED: 05/10/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A35694	05109338509 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #21	38.2	0.009
02	93A35695	05109338510 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #21	26.8	0.006
03	93A35696	05109338511 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #22	<12.7	<0.003
04	93A35697	05109338512 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #22	<12.7	<0.003
05	93A35698	05109338513 INSIDE AREA 7F, ADJACENT TO COLUMN LINE #23	<12.7	<0.003
06	93A35699	05109338514 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #14	89.2	0.021
07	93A35700	05109338515 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #15	50.9	0.012
08	93A35701	05109338516 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #15	<12.7	<0.003
09	93A35702	05109338517 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #16	<12.7	<0.003
10	93A35703	05109338518 OUTSIDE AREA 7F, ADJACENT TO COLUMN LINE #16	<12.7	<0.003
11	93A35704	05109338519 FIELD BLANK #1	< LOD	---
12	93A35705	05109338520 FIELD BLANK #2	< LOD	---

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Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719134

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(L)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7F

DATE SAMPLED: 05/10/93
DATE RECEIVED IN LAB: 05/11/93
DATE ANALYZED: 05/11/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A33691 05109338521	ADJACENT TO PERSONAL D/F	<12.7	
02	93A33692 05109338522	ADJACENT TO WASTE D/F	33.1	
03	93A33693 05109338523	INSIDE AREA 7F	<12.7	
04	93A33694 05109338524	AREA 7E	<12.7	
05	93A33395 05109338525	OUTSIDE OF BUILDING	<12.7	
06	93A33396 05109338526	FIELD BLANK #1	< LOD	
07	93A33697 05109338527	FIELD BLANK #2	< LOD	

" VOLUME CALCULATORS WERE NOT GIVEN. FIBERS/CC COULD NOT BE ESTABLISHED."

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719135

Laboratory Testing Services

LAB. NO.: 93-06766

CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young, Ph.D.
Vice President
Chief Operating Officer

David C. Harvey
President

vl

NVLAP ACCRED.. # 1332 NYS ELAP APPROVAL # 10837 AIHA ACCRED. # 333

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Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(I)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, A/C Pits

DATE SAMPLED: 03/11/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18020	03119338501-ADJACENT CLEAN ROOM	<12.7	<0.003
02	93A18021	03119338502-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
03	93A18022	03119338503-ADJACENT TO MICROTRAP DUCT IN STAIRWAY,NORTHWEST	<12.7	<0.002
04	93A18023	03119338504-BELOW WORK AREA 5A	<12.7	<0.002
05	93A18024	03119338505-ADJACENT TO CLEAN ROOM	15.3	0.004
06	93A18025	03119338506-ADJACENT TO ISOLATION BARRIER	13.4	0.003
07	93A18026	03119338507-FIELD BLANK #1	< LOD	-----
08	93A18027	03119338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766
DATE: 05/13/93

DATE SAMPLED: 04/15/93
DATE RECEIVED IN LAB: 04/23/93
DATE ANALYZED: 04/23/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Six (6)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase II, Work Area 4D West (Glovebags)

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A28408	04159338501-4D WEST DURING GLOVEBAG REMOVAL	<12.7	<0.004
02	93A28409	04159338502-4D WEST DURING GLOVEBAG REMOVAL	15.3	0.005
03	93A28410	04159338503-4D WEST POST GLOVEBAG REMOVAL	15.3	0.003
04	93A28411	04159338504-4D WEST POST GLOVEBAG REMOVAL	<12.7	<0.003
05	93A28412	04159338505-FIELD BLANK #1	< LOD	-----
06	93A28413	04159338506-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase II, Work Area Z

DATE SAMPLED: 05/13/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
01	93A35646	05139338545 INSIDE AREA Z, ADJACENT TO COLUMN LINE #6	<12.8	<0.004
02	93A35647	05139338546 INSIDE AREA Z, ADJACENT TO COLUMN LINE #7	<12.8	<0.004
03	93A35648	05139338547 INSIDE AREA Z, ADJACENT TO COLUMN LINE #8	<12.8	<0.004
04	93A35649	05139338548 INSIDE AREA Z, ADJACENT TO COLUMN LINE #9	<12.8	<0.004
05	93A35650	05139338549 INSIDE AREA Z, ADJACENT TO COLUMN LINE #10	<12.8	<0.004
06	93A35651	05139338550 OUTSIDE AREA Z, ADJACENT TO COLUMN LINE #11	<12.8	<0.004
07	93A35652	05139338551 OUTSIDE AREA Z, ADJACENT TO COLUMN LINE #11	<12.8	<0.004
08	93A35653	05139338552 OUTSIDE AREA Z, ADJACENT TO COLUMN LINE #11	<12.8	<0.004
09	93A35654	05139338553 OUTSIDE AREA Z, ADJACENT TO COLUMN LINE #11	<12.8	<0.004
10	93A35655	05139338554 OUTSIDE AREA Z, ADJACENT TO COLUMN LINE #11	<12.8	<0.004
11	93A35656	05139338555 FIELD BLANK #1	< LOD	---
12	93A35657	05139338556 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

LAB. NO.: 93-06766(P-02)

CERTIFICATION AND SIGNATURES:

We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.

Mark F. Young

Mark F. Young, Ph.D. EH
Vice President
Chief Operating Officer

David C. Harvey

David C. Harvey EH
President

ek

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Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
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Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the Laboratory Testing Services, Inc. with respect to the services charged for herein, shall in no event exceed the amount of the invoice.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(L)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase VII, Work Area 11

DATE SAMPLED: 04/22/93
DATE RECEIVED IN LAB: 04/23/93
DATE ANALYZED: 04/23/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A28559	04229338518-INSIDE AREA 11, ADJACENT TO COLUMN LINE 8	<12.7	<0.004
02	93A28560	04229338519-INSIDE AREA 11, ADJACENT TO COLUMN LINE 8	<12.7	<0.004
03	93A28561	04229338520-INSIDE AREA 11, ADJACENT TO COLUMN LINE 8	<12.7	<0.004
04	93A28562	04229338521-INSIDE AREA 11, ADJACENT TO COLUMN LINE 9	<12.7	<0.004
05	93A28563	04229338522-INSIDE AREA 11, ADJACENT TO COLUMN LINE 9	<12.7	<0.004
06	93A28564	04229338523-OUTSIDE AREA 11, ADJACENT TO COLUMN LINE 5	<12.7	<0.004
07	93A28565	04229338524-OUTSIDE AREA 11, ADJACENT TO COLUMN LINE 5	<12.7	<0.004
08	93A28566	04229338525-OUTSIDE AREA 11, ADJACENT TO COLUMN LINE 5	38.2	0.011
09	93A28567	04229338526-OUTSIDE AREA 11, ADJACENT TO COLUMN LINE 4	<12.7	<0.004
10	93A28568	04229338527-OUTSIDE AREA 11, ADJACENT TO COLUMN LINE 4	<12.7	<0.004
11	93A28569	04229338528-FIELD BLANK #1	< LOD	-----
12	93A28570	04229338529-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(M)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase VII, Work Area 11

DATE SAMPLED: 04/28/93
DATE RECEIVED IN LAB: 04/30/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30586	04289338533-ADJACENT TO PERSONAL D/F	35.7	0.001
02	93A30587	04289338534-ADJACENT TO WASTE D/F	38.5	0.011
03	93A30588	04289338535-ADJACENT TO MICROTRAP DUCT	38.9	0.011
04	93A30589	04289338536-ADJACENT TO MICROTRAP EXHAUST, OUTSIDE	31.2	0.009
05	93A30590	04289338537-ADJACENT TO ISOLATION BARRIER	61.8	0.017
06	93A30591	04289338538-FIELD BLANK #1	< LOD	-----
07	93A30592	04289338539-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(N)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase VII, Work Area 11

DATE SAMPLED: 04/29/93
DATE RECEIVED IN LAB: 04/30/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30574	04299338513-ADJACENT TO PERSONAL D/F	40.1	0.009
02	93A30575	04299338514-ADJACENT TO WASTE D/F	15.9	0.004
03	93A30576	04299338515-ADJACENT TO ISOLATION BARRIER	14.0	0.003
04	93A30577	04299338516-ADJACENT TO MICROTRAP DUCT	<12.7	<0.003
05	93A30578	04299338517-OUTSIDE ADJACENT TO MICROTRAP EXHAUST	103.8	0.024
06	93A30579	04299338518-ADJACENT TO PERSONAL D/F	12.7	0.003
07	93A30580	04299338519-ADJACENT TO WASTE D/F	<12.7	<0.003
08	93A30581	04299338520-ADJACENT TO ISOLATION	<12.7	<0.003
09	93A30582	04299338521-ADJACENT TO MIRCOTRAP DUCT	<12.7	<0.003
10	93A30583	04299338522-OUTSIDE ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.003
11	93A30584	04299338523-FIELD BLANK #1	< LOD	-----
12	93A30585	04299338524-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(T)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase VII, Work Area 11

DATE SAMPLED: 05/03/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A31966	05039338501 ADJACENT TO PERSONAL D/F	22.9	0.006
02	93A31967	03299318502 ADJACENT TO WASTE D/F	38.2	0.010
03	93A31968	03299318503 ADJACENT TO ISOLATION BARRIER	19.1	0.005
04	93A31969	03299318504 ADJACENT TO MICROTRAP DUCT	53.5	0.014
05	93A31970	03299318505 ADJACENT TO MICROTRAP EXHAUST (OUTSIDE)	22.9	0.006
06	93A31971	03299318506 FIELD BLANK #1	< LOD	---
07	93A31972	03299318507 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(U)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

DATE SAMPLED: 05/04/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase VII, Work Area 11

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A31928	05039338537 ADJACENT TO PERSONAL D/F	26.8	0.008
02	93A31929	05039338538 ADJACENT TO WASTE D/F	229.7	0.067
03	93A31930	05039338539 ADJACENT TO ISOLATION BARRIER	30.4	0.009
04	93A31931	05039338540 ADJACENT TO MICROTRAP DUCT	12.7	0.004
05	93A31932	05039338541 ADJACENT TO MICROTRAP EXHAUST (OUTSIDE)	39.5	0.012
06	93A31933	05039338542 FIELD BLANK #1	< LOD	-----
07	93A31934	05039338543 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(V)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase VII, Work Area 11

DATE SAMPLED: 05/04/93
DATE RECEIVED IN LAB: 05/05/93
DATE ANALYZED: 05/05/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A31690	05049338501 INSIDE AREA 11, ADJACENT TO COLUMN LINE #8	38.2	0.008
02	93A31691	05009338502 INSIDE AREA 11, ADJACENT TO COLUMN LINE #8	24.8	0.005
03	93A31692	05009338503 INSIDE AREA 11, ADJACENT TO COLUMN LINE #8	50.9	0.010
04	93A31693	05009338504 INSIDE AREA 11, ADJACENT TO COLUMN LINE #9	54.8	0.012
05	93A31694	05009338505 INSIDE AREA 11, ADJACENT TO COLUMN LINE #9	17.8	0.004
06	93A31695	05009338506 OUTSIDE AREA 11, ADJACENT TO COLUMN LINE #5	29.9	0.006
07	93A31696	05009338507 OUTSIDE AREA 11, ADJACENT TO COLUMN LINE #5	43.4	0.009
08	93A31697	05309338508 OUTSIDE AREA 11, ADJACENT TO COLUMN LINE #5	36.9	0.008
09	93A31698	05309338509 OUTSIDE AREA 11, ADJACENT TO COLUMN LINE #4	15.3	0.003
10	93A31699	05309338510 OUTSIDE AREA 11, ADJACENT TO COLUMN LINE #4	196.7	0.042
11	93A31700	05309338511 FIELD BLANK #1	< LOD	---
12	93A31701	05309338512 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

PROJECT NO.: 6766(W)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

DATE SAMPLED: 05/07/93
DATE RECEIVED IN LAB: 05/09/93
DATE ANALYZED: 05/09/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase VII, Work Area 11

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
01	93A33225	05079338501 INSIDE WORK AREA, ADJACENT TO COLUMN LINE #8	<12.7	<0.002
02	93A33226	05079338502 INSIDE WORK AREA, ADJACENT TO COLUMN LINE #8	<12.7	<0.002
03	93A33227	05079338503 INSIDE WORK AREA, ADJACENT TO COLUMN LINE #8	<12.7	<0.002
04	93A33228	05079338504 INSIDE WORK AREA, ADJACENT TO COLUMN LINE #9	<12.7	<0.002
05	93A33229	05079338505 INSIDE WORK AREA, ADJACENT TO COLUMN LINE #9	<12.7	<0.002
06	93A33230	05079338506 OUTSIDE WORK AREA, ADJACENT TO COLUMN LINE #5	<12.7	<0.002
07	93A33231	05079338507 OUTSIDE WORK AREA, ADJACENT TO COLUMN LINE #5	<12.7	<0.002
08	93A33232	05379338508 OUTSIDE WORK AREA, ADJACENT TO COLUMN LINE #5	<12.7	<0.002
09	93A33233	05379338509 OUTSIDE WORK AREA, ADJACENT TO COLUMN LINE #4	<12.7	<0.002
10	93A33234	05379338510 OUTSIDE WORK AREA, ADJACENT TO COLUMN LINE #4	<12.7	---
11	93A33235	05379338511 FIELD BLANK #1	< LOD	---
12	93A33236	05379338512 FIELD BLANK #2	< LOD	---

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(Q)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 8

DATE SAMPLED: 05/13/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A35666	05139338512 INSIDE AREA 8, ADJACENT TO COLUMN LINE #12	<12.7	<0.003
02	93A35667	05139338513 INSIDE AREA 8, ADJACENT TO COLUMN LINE #13	<12.7	<0.003
03	93A35668	05139338514 INSIDE AREA 8, ADJACENT TO COLUMN LINE #14	<12.7	<0.003
04	93A35669	05139338515 INSIDE AREA 8, ADJACENT TO COLUMN LINE #15	<12.7	<0.003
05	93A35670	05139338516 INSIDE AREA 8, ADJACENT TO COLUMN LINE #16	<12.7	<0.003
06	93A35671	05139338517 OUTSIDE AREA 8, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
07	93A35672	05139338518 OUTSIDE AREA 8, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
08	93A35673	05133338519 OUTSIDE AREA 8, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
09	93A35674	05139338520 OUTSIDE AREA 8, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
10	93A35675	05139338521 OUTSIDE AREA 8, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
11	93A35676	05139338522 FIELD BLANK #1	< LOD	---
12	93A35677	05139338523 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(S)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 8

DATE SAMPLED: 05/13/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A35682	05139338525 ADJACENT TO PERSONAL D/F	21.7	0.005
02	93A35683	05139338526 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A35684	05139338527 INSIDE AREA 8	<12.7	<0.003
04	93A35685	05139338528 ADJACENT TO AREA 8	<12.7	<0.003
05	93A35686	05139338529 OUTSIDE OF BUILDING	<12.7	<0.003
06	93A35687	05139338530 ADJACENT TO PERSONAL D/F	<12.7	<0.004
07	93A35688	05139338531 ADJACENT TO WASTE D/F	<12.7	<0.004
08	93A35689	05139338532 INSIDE AREA 8	<12.7	<0.004
09	93A35690	05139338533 ADJACENT TO AREA 8	<12.7	<0.004
10	93A35691	05139338534 OUTSIDE OF BUILDING	<12.7	<0.004
11	93A35692	05139338535 FIELD BLANK #1	< LOD	-----
12	93A35693	05139338536 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(R)
LAB.NO.: 93-06766(P-10)
DATE: 05/19/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 8A

DATE SAMPLED: 05/13/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A35658	05139338537 INSIDE AREA 8A, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
02	93A35659	05139338538 INSIDE AREA 8A, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
03	93A35660	05139338539 INSIDE AREA 8A, BETWEEN COLUMN LINES #10 & 11	<12.7	<0.003
04	93A35661	05139338540 OUTSIDE AREA 8A, ADJACENT TO COLUMN LINE #12	<12.7	<0.003
05	93A35662	05139338541 OUTSIDE AREA 8A, ADJACENT TO COLUMN LINE #13	<12.7	<0.003
06	93A35663	05139338542 OUTSIDE AREA 8A, ADJACENT TO COLUMN LINE #14	<12.7	<0.003
07	93A35664	05139338543 FIELD BLANK #1	< LOD	---
08	93A35665	05139338544 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/01/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22118	04019338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A22119	04019338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A22120	04019338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A22121	04019338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A22122	04019338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A22123	04019338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A22124	04019338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	15.3	0.003
08	93A22125	04019338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003
09	93A22126	04019338509 ADJACENT TO WASTE D/F	16.6	0.003
10	93A22127	04019338510 ADJACENT TO EAST ISOLATION BARRIER	16.6	<0.003
11	93A22128	04019338511 ADJACENT TO WEST ISOLATION BARRIER	16.6	<0.003
12	93A22129	04019338512 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/02/93
DATE RECEIVED IN LAB: 04/05/93
DATE ANALYZED: 04/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A23319	04029338501 ADJACENT TO PERSONAL D/F	15.3	0.004
02	93A23320	04029338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A23321	04029338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A23322	04029338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A23323	04029338505 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A23324	04029338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A23325	04029338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A23326	04029338508 ADJACENT TO PERSONAL D/F	15.3	0.004
09	93A23327	04029338509 ADJACENT TO WASTE D/F	<12.7	<0.004
10	93A23328	04029338510 ADJACENT TO EAST ISOLATION BARRIER	13.4	0.004
11	93A23329	04029338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.004
12	93A23330	04029338512 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.004

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	(f/cc^3)
13	93A22130	04019338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A22131	04019338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A22132	04019338515 FIELD BLANK #1	< LOD	-----
16	93A22133	04019338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
13	93A23331	04029338513 OUTSIDE OF BUILDING	<12.7	<0.004
14	93A23332	04029338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.004
15	93A23333	04029338515 FIELD BLANK #1	< LOD	-----
16	93A22334	04029338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/05/93
DATE RECEIVED IN LAB: 04/07/93
DATE ANALYZED: 04/08/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A24096	04059338501 ADJACENT TO PERSONAL D/F	<12.7	<0.004
02	93A24097	04059338502 ADJACENT TO WASTE D/F	<12.7	<0.004
03	93A24098	04059338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.004
04	93A24099	04059338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.004
05	93A24100	04059338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.004
06	93A24101	04059338506 OUTSIDE OF BUILDING	<12.7	<0.004
07	93A24102	04059338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.004
08	93A24103	04059338508 ADJACENT TO PERSONAL D/F	<12.7	<0.004
09	93A24104	04059338509 ADJACENT TO WASTE D/F	<12.7	<0.004
10	93A24105	04059338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.004
11	93A24106	04059338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.004
12	93A24107	04059338512 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.004

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
13	93A24108	04059338513 OUTSIDE OF BUILDING	<12.7	<0.004
14	93A24109	04059338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.004
15	93A24110	04059338515 FIELD BLANK #1	< LOD	-----
16	93A24111	04059338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(D)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/06/93
DATE RECEIVED IN LAB: 04/07/93
DATE ANALYZED: 04/08/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A24112	04069338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A24113	04069338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A24114	04069338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A24115	04069338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A24116	04069338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A24117	04069338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A24118	04069338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A24119	04069338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003
09	93A24120	04069338509 ADJACENT TO WASTE D/F	<12.7	<0.003
10	93A24121	04069338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A24122	04069338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
12	93A24123	04069338512 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
13	93A24124	04069338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A24125	04069338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A24126	04069338515 FIELD BLANK #1	< LOD	-----
16	93A24127	04069338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(E)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/07/93
DATE RECEIVED IN LAB: 04/12/93
DATE ANALYZED: 04/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A25691	04079338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A25692	04079338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A25693	04079338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A25694	04079338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A25695	04079338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A25696	04079338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A25697	04079338507 ADJACENT TO MICROTRAP EXHAUST BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A25698	04079338508 ADJACENT TO PERSONAL D/F	<12.7	<0.004
09	93A25699	04079338509 ADJACENT TO WASTE D/F	<12.7	<0.004
10	93A25700	04079338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.004
11	93A25701	04079338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.004
12	93A25702	04079338512 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.004

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
13	93A25703	04079338513 OUTSIDE OF BUILDING	<12.7	<0.004
14	93A25704	04079338514 ADJACENT TO MICROTRAP EXHAUST, IN NORTHWEST STAIRWAY	<12.7	<0.004
15	93A25705	04079338515 FIELD BLANK #1	< LOD	-----
16	93A25706	04079338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(F)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/08/93
DATE RECEIVED IN LAB: 04/12/93
DATE ANALYZED: 04/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A25675	04089338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A25676	04089338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A25677	04089338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A25678	04089338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A25679	04089338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A25680	04089338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A25681	04089338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A25682	04089338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003
09	93A25683	04089338509 ADJACENT TO WASTE D/F	<12.7	<0.003
10	93A25684	04089338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A25685	04089338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
12	93A25686	04089338512 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
13	93A25687	04089338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A25688	04089338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A25689	04089338515 FIELD BLANK #1	< LOD	-----
16	93A25690	04089338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

PROJECT NO.: 6766(G)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

DATE SAMPLED: 04/09/93
DATE RECEIVED IN LAB: 04/12/93
DATE ANALYZED: 04/12/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Nine (9)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A25666	04099338501 ADJACENT TO PERSONAL D/F	15.7	0.004
02	93A25667	04099338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A25668	04099338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A25669	04099338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A25670	04099338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	17.2	0.005
06	93A25671	04099338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A25672	04099338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	< LOD	-----
08	93A25673	04099338508 FIELD BLANK #1	< LOD	-----
09	93A25674	04099338509 FIELD BLANK #2		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(H)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Nine (9)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

DATE SAMPLED: 04/12/93
DATE RECEIVED IN LAB: 04/13/93
DATE ANALYZED: 04/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A26042	04129338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A26043	04129338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A26044	04129338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A26045	04129338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A26046	04129338505 ADJACENT TO MICROTRAP DUCTS, IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A26047	04129338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A26048	04129338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A26049	04129338508 FIELD BLANK #1	< LOD	-----
09	93A26050	04129338509 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(I)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

DATE SAMPLED: 04/13/93
DATE RECEIVED IN LAB: 04/14/93
DATE ANALYZED: 04/14/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #I, Work Area #5B

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
01	93A26266	04139338501 INSIDE AREA 5B, ADJACENT TO COLUMN LINE 19	<12.7	<0.003
02	93A26267	04139338502 INSIDE AREA 5B, ADJACENT TO COLUMN LINE 18	<12.7	<0.003
03	93A26268	04139338503 INSIDE AREA 5B, ADJACENT TO COLUMN LINE 16	<12.7	<0.003
04	93A26269	04139338504 INSIDE AREA 5B, ADJACENT TO COLUMN LINE 15	<12.7	<0.003
05	93A26270	04139338505 INSIDE AREA 5B, ADJACENT TO COLUMN LINE 14	<12.7	<0.003
06	93A26271	04139338506 OUTSIDE AREA 5B, ADJACENT TO COLUMN LINE 31	<12.7	<0.003
07	93A26272	04139338507 OUTSIDE AREA 5B, ADJACENT TO COLUMN LINE 31	<12.7	<0.003
08	93A26273	04139338508 OUTSIDE AREA 5B, ADJACENT TO COLUMN LINE 30	<12.7	<0.003
09	93A26274	04139338509 OUTSIDE AREA 5B, ADJACENT TO COLUMN LINE 30	<12.7	<0.003
10	93A26275	04139338510 OUTSIDE AREA 5B, ADJACENT TO COLUMN LINE 30	<12.7	<0.003
11	93A26276	04139338511 FIELD BLANK #1	< LOD	-----
12	93A26277	04139338512 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/22/93
DATE RECEIVED IN LAB: 03/24/93
DATE ANALYZED: 03/24/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20140	03229338501 INSIDE 5B, COLUMN LINE 15	<12.7	<0.003
02	93A20141	03229338502 INSIDE 5B, COLUMN LINE 16	22.9	0.006
03	93A20142	03229338503 INSIDE 5B, COLUMN LINE 17	<12.7	<0.003
04	93A20143	03229338504 INSIDE 5B, COLUMN LINE 19	32.5	0.009
05	93A20144	03229338505 INSIDE 5B, COLUMN LINE 20	43.3	0.012
06	93A20145	03229338506 OUTSIDE 5B, COLUMN LINE 22	<12.7	<0.003
07	93A20146	03229338507 OUTSIDE 5B, COLUMN LINE 23	24.8	0.007
08	93A20147	03229338508 OUTSIDE 5B, COLUMN LINE 25	33.1	0.009
09	93A20148	03229338509 OUTSIDE 5B, COLUMN LINE 27	<12.7	<0.003
10	93A20149	03229338510 OUTSIDE 5B, COLUMN LINE 30	22.9	0.006
11	93A20150	03229338511 FIELD BLANK #1	< LOD	-----
12	93A20151	03229338512 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719211

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/23/93
DATE RECEIVED IN LAB: 03/25/93
DATE ANALYZED: 03/25/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20368	03239338501 ADJACENT TO CLEAN ROOM	<12.7	<0.003
02	93A20369	03239338502 ADJACENT TO HOLDING AREA	<12.7	<0.003
03	93A20370	03239338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A20371	03239338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A20372	03239338505 ADJACENT TO MICROTRAP DUCT NORTHEAST STAIRWAY	<12.7	<0.003
06	93A20373	03239338506 ADJACENT TO MICROTRAP EXHAUST, ADJACENT TO NORTHWEST STAIRWAY	<12.7	<0.003
07	93A20374	03239338507 OUTSIDE BUILDING	<12.7	<0.003
08	93A20375	03239338508 ADJACENT TO CLEAN ROOM	<12.7	<0.003
09	93A20376	03239338509 ADJACENT TO HOLDING AREA	13.4	0.003
10	93A20377	03239338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A20378	03239338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
12	93A20379	03239338512 ADJACENT TO MICROTRAP DUCT IN NORTHEAST STAIRWAY	<12.7	<0.003
13	93A20380	03239338513 ADJACENT TO MICROTRAP EXHAUST, ADJACENT TO NORTHWEST STAIRWAY	13.4	0.003
14	93A20381	03239338514 OUTSIDE BUILDING	<12.7	<0.003
15	93A20382	03239338515 FIELD BLANK #1	< LOD	-----
16	93A20383	03239338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719213

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(D)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/24/93
DATE RECEIVED IN LAB: 03/25/93
DATE ANALYZED: 03/25/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20384	03249338501 ADJACENT TO CLEAN ROOM	<12.7	<0.003
02	93A20385	03249338502 ADJACENT TO HOLDING AREA	<12.7	<0.003
03	93A20386	03249338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A20387	03249338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A20388	03249338505 ADJACENT TO MICROTRAP DUCT IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A20389	03249338506 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
07	93A20390	03249338507 OUTSIDE BUILDING	<12.7	<0.003
08	93A20391	03249338508 ADJACENT TO CLEAN ROOM	<12.7	<0.003
09	93A20392	03249338509 ADJACENT TO HOLDING AREA	<12.7	<0.003
10	93A20393	03249338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A20394	03249338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(M)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17265	03089338101-INTERIOR, PIT #22	<12.7	<0.004
02	93A17266	03089338102-INTERIOR, PIT #22	<12.7	<0.004
03	93A17267	03089338103-INTERIOR, PIT #22	<12.7	<0.004
04	93A17268	03089338104-EXTERIOR, NEAR DECON TO WORK AREA #4E	<12.7	<0.004
05	93A17269	03098338105-EXTERIOR, NEAR DECON TO WORK AREA #4E	<12.7	<0.004
06	93A17270	03089338106-EXTERIOR, NEAR DECON TO WORK AREA #4E	<12.7	<0.004
07	93A17271	03089338107-FIELD BLANK #1	< LOD	-----
08	93A17272	03089338108-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719215

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(J)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/15/93
DATE RECEIVED IN LAB: 03/14/93
DATE ANALYZED: 03/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17886	03129338501-INSIDE 5A, COLUMN LINE 22	<12.7	<0.003
02	93A17887	03129338502-INSIDE 5A, COLUMN LINE 25	<12.7	<0.003
03	93A17888	03129338503-INSIDE 5A, COLUMN LINE 27	<12.7	<0.003
04	93A17889	03129338504-INSIDE 5A, COLUMN LINE 29	<12.7	<0.003
05	93A17890	03129338505-INSIDE 5A, COLUMN LINE 31	<12.7	<0.003
06	93A17891	03129338516-OUTSIDE 5A, 50+ FEET, COLUMN LINE 12	<12.7	<0.003
07	93A17892	03129338517-OUTSIDE 5A, 50+ FEET, COLUMN LINE 12	<12.7	<0.003
08	93A17893	03129338518-OUTSIDE 5A, 50+ FEET, COLUMN LINE 12	<12.7	<0.003
09	93A17894	03129338519-OUTSIDE 5A, 50+ FEET, COLUMN LINE 12	<12.7	<0.003
10	93A17895	03129338520-OUTSIDE 5A, 50+ FEET, COLUMN LINE 12	<12.7	<0.003
11	93A17896	03129338511-FIELD BLANK #1	< LOD	-----
12	93A17897	03129338512-FIELD BLANK #2	< LOD	-----

< = LESS THAN
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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-04)
DATE: 03/30/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/01/93
DATE RECEIVED IN LAB: 03/05/93
DATE ANALYZED: 03/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15608	03019338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A15609	03019338502-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
03	93A15610	03019338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A15611	03019338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A15612	03019338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A15613	03019338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A15614	03019338507-FIELD BLANK #1	< LOD	-----
08	93A15615	03019338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719217

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-04)
DATE: 03/30/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/02/93
DATE RECEIVED IN LAB: 03/05/93
DATE ANALYZED: 03/05/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15475	03029338501-ADJACENT TO D/F	<12.7	<0.003
02	93A15476	03029338502-ADJACENT TO CRITICAL BARRIERS	<12.7	<0.003
03	93A15477	03029335033-ADJACENT TO D/F	<12.7	<0.003
04	93A15478	03029338504-ADJACENT TO CRITICAL BARRIERS	<12.7	<0.003
05	93A15479	03029338505-ADJACENT TO MICROTRAP DUCT, IN NORTHWEST STAIRWELL	<12.7	<0.003
06	93A15480	03029338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A15481	03029338507-FIELD BLANK #1	< LOD	-----
08	93A15482	03029338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719218

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766(P-04)
DATE: 03/30/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/03/93
DATE RECEIVED IN LAB: 03/05/93
DATE ANALYZED: 03/05/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15459	03039338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A15460	03039338502-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
03	93A15461	03039338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A15462	03039338504-ADJACENT TO ISOLATION BARRIER	19.1	0.004
05	93A15463	03039338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A15464	03039338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A15465	03039338507-FIELD BLANK #1	< LOD	-----
08	93A15466	03039338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719219

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(D)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/04/93
DATE RECEIVED IN LAB: 03/07/93
DATE ANALYZED: 03/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15974	03049338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.002
02	93A15975	03049338502-ADJACENT TO ISOLATION BARRIER	<12.7	<0.002
03	93A15976	03049338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A15977	03049338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A15978	03049338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A15978	03049338506-BELOW WORK AREA 5A	17.2	0.004
07	93A15980	03049338507-FIELD BLANK #1	< LOD	-----
08	93A15981	03049338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719220

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(E)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/05/93
DATE RECEIVED IN LAB: 03/07/93
DATE ANALYZED: 03/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15958	03059338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A15959	03059338502-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
03	93A15960	03059338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A15961	03059338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A15962	03059338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A15963	03059338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A15964	03059338507-FIELD BLANK #1	< LOD	-----
08	93A15965	03059338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719221

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(F)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/09/93
DATE ANALYZED: 03/09/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A16495	03089338501-ADJACENT TO PERSONAL D/F ENTRANCE	34.4	0.006
02	93A16496	03089338502-ADJACENT TO CRITICAL BARRIER	26.8	0.004
03	93A16497	03089338503-ADJACENT TO PERSONAL D/F ENTRANCE	<12.7	<0.003
04	93A16498	03089338504-ADJACENT TO CRITICAL BARRIER	<12.7	<0.003
05	93A16499	03089338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	0.004
06	93A16500	03089338506-BELOW WORK AREA 5A	<12.7	<0.004
07	93A16501	03089338507-FIELD BLANK #1	< LOD	-----
08	93A16502	03089338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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NVLAP

P 719222

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(G)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/09/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17322	03099338501-ADJACENT TO CLEAN ROOM	<12.7	<0.003
02	93A17323	03099338502-ADJACENT TO CRITICAL BARRIER	<12.7	<0.003
03	93A17324	03099338503-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.002
04	93A17325	03099338504-BELOW WORK AREA 5A	<12.7	<0.002
05	93A17325	03099338505-ADJACENT TO CLEAN ROOM	<12.7	<0.002
06	93A17327	03099338506-ADJACENT TO CONTROL BARRIER	<12.7	<0.002
07	93A17328	03099338507-FIELD BLANK #1	< LOD	-----
08	93A17329	03099338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719223

NVLAP

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(H)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17338	03109338501-ADJACENT CLEAN ROOM	<12.7	<0.003
02	93A17339	03109338502-ADJACENT TO CRITICAL BARRIER	<12.7	<0.003
03	93A17340	03109338503-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
04	93A17341	03109338504-BELOW WORK AREA 5A	<12.7	<0.003
05	93A17342	03109338505-ADJACENT TO CLEAN ROOM	<12.7	<0.003
06	93A17343	03109338506-ADJACENT TO CRITICAL BARRIER	<12.7	<0.003
07	93A17344	03109338507-FIELD BLANK #1	< LOD	-----
08	93A17345	03109338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719224

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Six (6)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5A

DATE SAMPLED: 03/17/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18997	03179338513 ADJACENT TO BATHROOMS	<12.7	<0.003
02	93A18998	03179338514 ADJACENT TO BATHROOMS	<12.7	<0.003
03	93A18999	03179338514 ADJACENT TO BATHROOMS	OVERLOADED	OVERLOADED
04	93A19000	03179338515 ADJACENT TO BATHROOMS	OVERLOADED	OVERLOADED
05	93A19001	03179338516 FIELD BLANK #1	< LOD	-----
06	93A19002	03179338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719225

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(A)
LAB.NO.: 93-06766(P-02)
DATE: 03/23/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+ GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/16/93
DATE RECEIVED IN LAB: 02/19/93
DATE ANALYZED: 02/19/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A11231	02169338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A11232	02169338502-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
03	93A11233	02169338503-BELOW WORK AREA 5A	VOID	
04	93A11234	02169338504-ADJACENT TO D/F ENTRANCE	<12.7	0.004
05	93A11235	02169338505-ADJACENT TO ISOLATION BARRIER	<12.7	0.006
06	93A11236	02169338506-ADJACENT TO MICROTRAP DUCT NORTHWEST STAIRWAY	<12.7	<0.003
07	93A11237	02169338507-FIELD BLANK #1	< LOD	-----
08	93A11238	02169338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719226

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(B)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/17/93
DATE RECEIVED IN LAB: 02/19/93
DATE ANALYZED: 02/19/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A11215	02179347901-ADJACENT TO D/F ENTRANCE	<12.7	<0.004
02	93A11216	02179347902-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.004
03	93A11217	02179347903-BELOW WORK AREA 5A	<12.7	<0.004
04	93A11218	02179347904-ADJACENT TO MICROTRAP DUCT NORTHWEST STAIRWAY	<12.7	<0.004
05	93A11219	02179347905-ADJACENT TO THE D/F ENTRANCE	<12.7	<0.004
06	93A11220	02179347906-ADJACENT TO THE ISOLATION BARRIERS	<12.7	<0.004
07	93A11221	02179347907-FIELD BLANK #1	< LOD	-----
08	93A11222	02179347908-FIELD BLANK #2	< LOD	-----

< = LESS THAN
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P 719227

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(C)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/18/93
DATE RECEIVED IN LAB: 02/19/93
DATE ANALYZED: 02/19/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A11223	02189338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A11224	02189338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.003
03	93A11225	02189338503-BELOW WORK AREA 5A	<12.7	<0.003
04	93A11226	02189338504-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
05	93A11227	02189338505-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
06	93A11228	02189338506-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
07	93A11229	02189338507-FIELD BLANK #1	< LOD	-----
08	93A11230	02189338508-FIELD BLANK #2	< LOD	-----

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(D)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/19/93
DATE RECEIVED IN LAB: 02/20/93
DATE ANALYZED: 02/20/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A11411	02199338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.002
02	93A11412	02199338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.002
03	93A11413	02199338503-BELOW WORK AREA 5A	<12.7	<0.003
04	93A11414	02199338504-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
05	93A11415	02199338505-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
06	93A11416	02199338506-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
07	93A11417	02199338507-FIELD BLANK #1	< LOD	-----
08	93A11418	02199338508-FIELD BLANK #2	< LOD	-----

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(E)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/22/93
DATE RECEIVED IN LAB: 02/24/93
DATE ANALYZED: 02/24/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A12305	02229338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A12306	02229338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.003
03	93A12307	02229338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A12308	02229338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A12309	02229338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	DF	DF
06	93A12310	02229338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A12311	02229338507-FIELD BLANK #1	< LOD	-----
08	93A12312	02229338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(F)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/23/93
DATE RECEIVED IN LAB: 02/24/93
DATE ANALYZED: 02/24/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A12313	02239338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.002
02	93A12314	02239338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.002
03	93A12315	02239338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A12316	02239338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A12317	02239338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A12318	02239338506-BELOW WORK AREA	<12.7	<0.003
07	93A12319	02239338507-FIELD BLANK #1	< LOD	-----
08	93A12320	02239338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(G)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/24/93
DATE RECEIVED IN LAB: 02/25/93
DATE ANALYZED: 02/25/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A12724	02249338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
02	93A12725	02249338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.003
03	93A12726	02249338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A12727	02249338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A12728	02249338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A12729	02249338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A12730	02249338507-FIELD BLANK #1	< LOD	-----
08	93A12731	02249338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(H)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/25/93
DATE RECEIVED IN LAB: 02/27/93
DATE ANALYZED: 02/27/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A13581	02259338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.002
02	93A13582	02259338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.002
03	93A13583	02259338503-ADJACENT TO D/F ENTRANCE	<12.7	<0.003
04	93A13584	02259338504-ADJACENT TO ISOLATION BARRIER	<12.7	<0.003
05	93A13585	02259338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.003
06	93A13586	02259338506-BELOW WORK AREA 5A	<12.7	<0.003
07	93A13587	02259338507-FIELD BLANK #1	< LOD	-----
08	93A13588	02259338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(I)
LAB.NO.: 93-06766(P-02)
DATE: 03/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight(8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

DATE SAMPLED: 02/26/93
DATE RECEIVED IN LAB: 02/27/93
DATE ANALYZED: 02/27/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A13605	02269338501-ADJACENT TO D/F ENTRANCE	<12.7	<0.002
02	93A13606	02269338502-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.002
03	93A13607	02269338503-ADJACENT TO THE D/F ENTRANCE	<12.7	<0.003
04	93A13608	02269338504-ADJACENT TO THE ISOLATION BARRIER	<12.7	<0.003
05	93A13609	02269338505-ADJACENT TO MICROTRAP DUCT IN NORTHWEST STAIRWAY	<12.7	<0.004
06	93A13610	02269338506-BELOW WORK AREA 5A	<12.7	<0.004
07	93A13611	02269338507-FIELD BLANK #1	< LOD	-----
08	93A13612	02269338508-FIELD BLANK #2	< LOD	-----

< = LESS THAN
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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(N)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, A.C. Pits

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/10/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17996	03109347938-INSIDE A/C PIT #12	<12.7	<0.004
02	93A17997	03109347939-INSIDE A/C PIT #12	<12.7	<0.004
03	93A17998	03109347940-INSIDE A/C PIT #12	<12.7	<0.004
04	93A17999	03109347941-OUTSIDE A/C PIT #12, ADJACENT TO PIT 14	<12.7	<0.004
05	93A18000	03109347942-OUTSIDE A/C PIT #12, ADJACENT TO PIT 14	<12.7	<0.004
06	93A18001	03109347943-OUTSIDE A/C PIT #12, ADJACENT TO PIT 14	<12.7	<0.004
07	93A18002	03109347944-FIELD BLANK #1	< LOD	-----
08	93A18003	03109347945-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(0)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/11/93

SAMPLING SITE: JFK Airport, Building 56, Phase 2, Pits, A/C Pit 20

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17184	03109318615-INSIDE A/C PIT #20, PIT 20	13.5	0.004
02	93A17185	03109318616-INSIDE N/C PIT #20, PIT 20	<12.7	<0.004
03	93A17186	03109318617-INSIDE A/C PIT #20, PIT 20	<12.7	<0.004
04	93A17187	03109318618-OUTSIDE A/C PIT #20, PIT 20	<12.7	<0.004
05	93A17188	03109318619-OUTSIDE A/C PIT #20, PIT 20	<12.7	<0.004
06	93A17189	03109318620-OUTSIDE A/C PIT #20, PIT 20	<12.7	<0.004
07	93A17190	03109318621-FIELD BLANK #1	< LOD	-----
08	93A17191	03109318622-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(R)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, A.C. Pits

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17988	03109347930-INSIDE A/C PIT #13	<12.7	<0.004
02	93A17989	03109347931-INSIDE A/C PIT #13	<12.7	<0.004
03	93A17990	03109347932-INSIDE A/C PIT #13	<12.7	<0.004
04	93A17991	03109347933-OUTSIDE A/C PIT #13, ADJACENT TO PIT 15	<12.7	<0.004
05	93A17992	03109347934-OUTSIDE A/C PIT #13, ADJACENT TO PIT 15	<12.7	<0.004
06	93A17993	03109347935-OUTSIDE A/C PIT #13, ADJACENT TO PIT 15	<12.7	<0.004
07	93A17994	03109347936-FIELD BLANK #1	< LOD	-----
08	93A17995	03109347937-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(E)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/26/93
DATE RECEIVED IN LAB: 03/27/93
DATE ANALYZED: 03/27/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20974	03269338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A20975	03269338502 ADJACENT TO WASTE D/F	15.3	0.003
03	93A20976	03269338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A20977	03269338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A20978	03269338505 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A20979	03269338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A20980	03269338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A20981	03269338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003
09	93A20982	03269338509 ADJACENT TO WASTE D/F	<12.7	<0.003
10	93A20983	03269338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A20984	03269338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
12	93A20985	03269338512 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
13	93A20986	03269338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A20987	03269338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A20988	03269338515 FIELD BLANK #1	< LOD	-----
16	93A20989	03269338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(F)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/29/93
DATE RECEIVED IN LAB: 03/30/93
DATE ANALYZED: 03/31/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A21461	03299338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A21462	03299338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A21463	03299338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A21464	03299338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A21465	03299338505 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A21466	03299338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A21467	03299338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A21468	03299338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003
09	93A21469	03299338509 ADJACENT TO WASTE D/F	<12.7	<0.003
10	93A21470	03299338510 ADJACENT TO EAST ISOLATION BARRIER	15.3	0.003
11	93A21471	03299338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003

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RESULTS: (CONT'D)

SAMPLE NO:	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
12	93A20472	03299338512 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
13	93A20473	03299338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A20474	03299338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A20475	03299338515 FIELD BLANK #1	< LOD	-----
16	93A20476	03299338516 FILED BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(G)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/30/93
DATE RECEIVED IN LAB: 03/30/93
DATE ANALYZED: 03/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A21445	03309338501 ADJACENT TO PERSONAL D/F	<12.7	<0.003
02	93A21446	03309338502 ADJACENT TO WASTE D/F	<12.7	<0.003
03	93A21447	03309338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A21448	03309338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A21449	03309338505 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A21450	03309338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A21451	03309338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A21452	03309338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
09	93A21453	03309338509 ADJACENT TO WASTE D/F	<12.7	<0.003
10	93A21454	03309338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A21455	03309338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
12	93A21456	03309338512 ADJACENT TO MICROTRAP IN NORTHEAST STAIRWAY	<12.7	<0.003
13	93A21457	03309338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A21458	03309338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A21459	03309338515 FIELD BLANK #1	< LOD	-----
16	93A21460	03309338516 FIELD BLANK #2	< LOD	-----

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(H)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #1, Work Area 5B

DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22078	03319338501 ADJACENT TO PERSONAL D/F	22.9	0.006
02	93A22079	03319338502 ADJACENT TO WASTE D/F	15.3	0.004
03	93A22080	03319338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A22081	03319338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A22082	03319338505 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A22083	03319338506 OUTSIDE OF BUILDING	<12.7	<0.003
07	93A22084	03319338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A22085	03319338508 ADJACENT TO PERSONAL D/F	<12.7	<0.003
09	93A22086	03319338509 ADJACENT TO WASTE D/F	<12.7	<0.003
10	93A22087	03319338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A22088	03319338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003

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<LOD = LESS THAN LIMIT OF DETECTION

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	CONCENTRATION (f/cc³)
12	93A22089	03319338512 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
13	93A22090	03319338513 OUTSIDE OF BUILDING	<12.7	<0.003
14	93A22091	03319338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
15	93A22092	03319338515 FIELD BLANK #1	< LOD	-----
16	93A22093	03319338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(G1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #3, Work Area 5B

DATE SAMPLED: 03/25/93
DATE RECEIVED IN LAB: 03/2
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm²)	(f/cc
01	93A20683	03259338513 OUTSIDE BUILDING	<12.7	<0.(
02	93A20684	03259338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.(
03	93A20685	03259338515 FIELD BLANK #1	< LOD	---
04	93A20686	03259338516 FIELD BLANK #2	< LOD	---

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(H1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #3, Work Area 5B

DATE SAMPLED: 03/25/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20671	03259338501 ADJACENT TO CLEAN ROOM	<12.7	<0.003
02	93A20672	03259338502 ADJACENT TO HOLDING AREA	<12.7	<0.003
03	93A20673	03259338503 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
04	93A20674	03259338504 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
05	93A20675	03259338505 ADJACENT TO MICROTRAP DUCTS IN NORTHEAST STAIRWAY	<12.7	<0.003
06	93A20676	03259338506 OUTSIDE BUILDING	<12.7	<0.003
07	93A20677	03259338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A20678	03259338508 ADJACENT TO CLEAN ROOM	<12.7	<0.003
09	93A20679	03259338509 ADJACENT TO HOLDING AREA	<12.7	<0.003
10	93A20680	03259338510 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.003
11	93A20681	03259338511 ADJACENT TO WEST ISOLATION BARRIER	<12.7	<0.003
12	93A20682	03259338512 ADJACENT TO MICROTRAP DUCT IN NORTHEAST STAIRWAY	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(T)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, A.C. Pits

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18110	03109338509-INSIDE A/C PIT #17	<12.7	<0.004
02	93A18111	03109338510-INSIDE N/C PIT #17	<12.7	<0.004
03	93A18112	03109338511-INSIDE A/C PIT #17	<12.7	<0.004
04	93A18113	03109338512-OUTSIDE A/C PIT #17, ADJACENT TO PIT 15	<12.7	<0.003
05	93A18114	03109338513-OUTSIDE A/C PIT #17, ADJACENT TO PIT 15	<12.7	<0.003
06	93A18115	03109338514-OUTSIDE A/C PIT #17, ADJACENT TO PIT 15	<12.7	<0.003
07	93A18116	03109338515-FIELD BLANK #1	< LOD	-----
08	93A18117	03109338516-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719252

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(U)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, A.C. Pits

DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18118	03109338517-INSIDE A/C PIT #21	<12.7	<0.004
02	93A18119	03109338518-INSIDE N/C PIT #21	<12.7	<0.004
03	93A18120	03109338519-INSIDE A/C PIT #12	<12.7	<0.004
04	93A18121	03109338520-OUTSIDE A/C PIT #21, ADJACENT TO PIT 19	<12.7	<0.004
05	93A18122	03109338521-OUTSIDE A/C PIT #21, ADJACENT TO PIT 19	<12.7	<0.004
06	93A18123	03109338522-OUTSIDE A/C PIT #21, ADJACENT TO PIT 19	<12.7	<0.004
07	93A18124	03109338523-FIELD BLANK #1	< LOD	-----
08	93A18125	03109337524-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719253

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(V)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Three (3)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, A/C Pits

DATE SAMPLED: 03/11/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18028	03119338509-OUTSIDE, A/C PIT #16, D/F	<12.7	<0.002
02	93A18029	03119338510-FIELD BLANK #1	< LOD	-----
03	93A18030	03119338511-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719254

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(W)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Three (3)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, A/C Pits

DATE SAMPLED: 03/11/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18031	03119338512-OUTSIDE, A/C PIT #12	<12.7	<0.004
02	93A18032	03119338513-FIELD BLANK #1	< LOD	-----
03	93A18033	03119338514-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(X)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, Work Area 3

DATE SAMPLED: 03/12/93
DATE RECEIVED IN LAB: 03/12/93
DATE ANALYZED: 03/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17918	03129338133-INSIDE PIT #24	<12.7	<0.003
02	93A17919	03129338134-INSIDE PIT #24	<12.7	<0.003
03	93A17920	03129338135-INSIDE PIT #24	<12.7	<0.003
04	93A17921	03129338136-OUTSIDE PIT #24	<12.7	<0.003
05	93A17922	03129338137-OUTSIDE PIT #24	<12.7	<0.004
06	93A17923	03129338138-OUTSIDE PIT #24,	<12.7	<0.003
07	93A17924	03129338139-FIELD BLANK #1	< LOD	-----
08	93A17925	03129338140-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(Y)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, Work Area 3

DATE SAMPLED: 03/12/93
DATE RECEIVED IN LAB: 03/12/93
DATE ANALYZED: 03/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17910	03129338125-INSIDE PIT #16	<12.7	<0.002
02	93A17911	03129338126-INSIDE PIT #16	<12.7	<0.002
03	93A17912	03129338127-INSIDE PIT #16	<12.7	<0.002
04	93A17913	03129338128-OUTSIDE PIT #16	<12.7	<0.003
05	93A17914	03129338129-OUTSIDE PIT #16	<12.7	<0.003
06	93A17915	03129338130-OUTSIDE PIT #16	<12.7	<0.004
07	93A17916	03129338131-FIELD BLANK #1	< LOD	-----
08	93A17917	03129338132-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(L)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A17273	03089347913-INTERIOR PIT #16	<12.7	<0.004
02	93A17274	03089347914-INTERIOR PIT #16	<12.7	<0.004
03	93A17275	03089347915-INTERIOR PIT #16	<12.7	<0.004
04	93A17276	03089347916-EXTERIOR, NEAR DECON TO WORK AREA 4E	<12.7	<0.004
05	93A17277	03089347917-EXTERIOR, NEAR DECON TO WORK AREA 4E	<12.7	<0.004
06	93A17278	03089347918-EXTERIOR, NEAR DECON TO WORK AREA 4E	<12.7	<0.004
07	93A17279	03089347919-FIELD BLANK #1	< LOD	-----
08	93A17280	03089347920-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719258

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Bill Birnbaum

PROJECT NO.: 6766(K)
LAB.NO.: 93-06766(P-04)
DATE: 03/31/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase 2, Work Area 3

DATE SAMPLED: 03/05/93
DATE RECEIVED IN LAB: 03/07/93
DATE ANALYZED: 03/07/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A15950	03059318401-A.C. PIT #20, INSIDE PIT	<12.7	<0.004
02	93A15951	03059318402-A.C. PIT #20, INSIDE PIT	<12.7	<0.004
03	93A15952	03059318403-A.C. PIT #20, INSIDE PIT	<12.7	<0.004
04	93A15953	03059318404-A.C. PIT #20, OUTSIDE PIT, ADACENT TO BUILDING	<12.7	<0.004
05	93A15954	03059318405-A,C, PIT #20, OUTSIDE PIT, ADJACENT TO BUILDING	<12.7	<0.004
06	93A15955	03059318406-A.C. PIT #20, OUTSIDE PIT, ADJACENT TO BUILDING	<12.7	<0.004
07	93A15956	03059318407-FIELD BLANK #1	< LOD	-----
08	93A15957	03059318408-FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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P 719259

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(I)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Three (3)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 3, Pit #13

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A19003	03169338507 ADJACENT TO PIT #13	---- OVERLOADED	
02	93A19004	03169338508 FIELD BLANK #1	< LOD	-----
03	93A19005	03169338509 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719260

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(J)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Three (3)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 3, Pit #17

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A19006	03169338510 ADJACENT TO A/C, PIT #17	<12.7	<0.003
02	93A19007	03169338511 FIELD BLANK #1	< LOD	-----
03	93A19008	03169338512 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719261

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(K)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 3, A/C, Pit #13

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/17/93
DATE ANALYZED: 03/17/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18659	03169338513 INSIDE A/C, PIT #13	<12.7	<0.003
02	93A18660	03169338514 INSIDE A/C, PIT #13	<12.7	<0.003
03	93A18661	03169338515 INSIDE A/C, PIT #13	<12.7	<0.003
04	93A18662	03169338516 OUTSIDE A/C, PIT #13	<12.7	<0.003
05	93A18663	03169338517 OUTSIDE A/C, PIT #13	<12.7	<0.003
06	93A18664	03169338518 OUTSIDE A/C, PIT #13	<12.7	<0.003
07	93A18665	03169338519 FIELD BLANK #1	< LOD	-----
08	93A18666	03169338520 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719262

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(L)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area #3, Pit #17

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/17/93
DATE ANALYZED: 03/17/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18667	03169338521 INSIDE A/C, PIT #17	<12.7	<0.003
02	93A18668	03169338522 INSIDE A/C, PIT #17	<12.7	<0.003
03	93A18669	03169338523 INSIDE A/C, PIT #17	<12.7	<0.003
04	93A18670	03169338524 OUTSIDE A/C, PIT #17	<12.7	<0.003
05	93A18671	03169338525 OUTSIDE A/C, PIT #17	<12.7	<0.003
06	93A18672	03169338526 OUTSIDE A/C, PIT #17	<12.7	<0.003
07	93A18673	03169338527 FIELD BLANK #1	< LOD	-----
08	93A18674	03169338528 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719263

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(M)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area #3, A/C, Pit #21

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/17/93
DATE ANALYZED: 03/17/93

RESULTS:

SAMPLE NO.	LTS. ID#		SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18683	03169338537	INSIDE A/C, PIT #21	<12.7	<0.003
02	93A18684	03169338538	INSIDE A/C, PIT #21	<12.7	<0.003
03	93A18685	03169338539	INSIDE A/C, PIT #21	<12.7	<0.003
04	93A18686	03169338540	OUTSIDE A/C, PIT #21	<12.7	<0.003
05	93A18687	03169338541	OUTSIDE A/C, PIT #21	<12.7	<0.003
06	93A18688	03169338542	OUTSIDE A/C, PIT #21	<12.7	<0.003
07	93A18689	03169338543	FIELD BLANK #1	< LOD	-----
08	93A18690	03169338544	FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719264

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(N)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/17/93
DATE ANALYZED: 03/17/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area #3, A/C, Pit #12

RESULTS:

SAMPLE NO.	LTS. ID#		SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A18675	03169338529	INSIDE A/C, PIT #12	<12.7	<0.003
02	93A18676	03169338530	INSIDE A/C, PIT #12	<12.7	<0.003
03	93A18677	03169338531	INSIDE A/C, PIT #12	<12.7	<0.003
04	93A18678	03169338532	OUTSIDE A/C, PIT 312	<12.7	<0.003
05	93A18679	03169338533	OUTSIDE A/C, PIT #12	<12.7	<0.003
06	93A18680	03169338534	OUTSIDE A/C, PIT #12	<12.7	<0.003
07	93A18681	03169338535	FIELD BLANK #1	< LOD	-----
08	93A18682	03169338536	FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719265

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(L)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4C

DATE SAMPLED: 04/01/93
DATE RECEIVED IN LAB: 04/05/93
DATE ANALYZED: 04/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A23341	04019338533 INSIDE AREA 4C, NORTH	24.8	0.007
02	93A23342	04019338534 INSIDE AREA 4C, WEST	<12.7	<0.004
03	93A23343	04019338535 INSIDE AREA 4C, EAST	22.9	0.006
04	93A23344	04019338536 INSIDE AREA 4C, SOUTHEAST	<12.7	<0.004
05	93A23345	04019338537 INSIDE AREA 4C, SOUTH	<12.7	<0.004
06	93A23346	04019338538 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
07	93A23347	04019338539 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
08	93A23348	04019338540 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
09	93A23349	04019338541 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
10	93A23350	04019338542 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
11	93A23351	04019338543 FIELD BLANK #1	< LOD	-----
12	93A23352	04019338544 -----	LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DE

Note: Airborne concentration has been derived b
Services, Inc. does not certify the accuracy of
concentration data supplied is done so only for

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concentration. The air

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(M)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Six (6)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4C

DATE SAMPLED: 04/02/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A23353	04029338517 ADJACENT TO SOUTH ISOLATION BARRIER	<12.7	<0.004
02	93A23354	04029338518 ADJACENT TO EAST ISOLATION BARRIER	<12.7	<0.004
03	93A23355	04029338519 ADJACENT TO SOUTH ISOLATION BARRIER	<12.7	<0.004
04	93A23356	04029338520 ADJACENT TO EAST ISOLATION BARRIER	12.7	0.004
05	93A23357	04029338521 FIELD BLANK #1	< LOD	-----
06	93A23358	04029338522 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(N)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4C

DATE SAMPLED: 04/02/93
DATE RECEIVED IN LAB: 04/05/93
DATE ANALYZED: 04/05/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A23226	04029338523 INSIDE AREA 4C, NORTH	15.9	0.005
02	93A23227	04029338524 INSIDE AREA 4C, SOUTH	23.6	0.007
03	93A23228	04029338525 INSIDE AREA 4C, EAST	<12.7	<0.004
04	93A23229	04029338526 INSIDE AREA 4C, SOUTHEAST	<12.7	<0.004
05	93A23230	04029338527 INSIDE AREA 4C, WEST	<12.7	<0.004
06	93A23231	04029338528 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
07	93A23232	04029338529 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
08	93A23233	04029338530 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	<12.7	<0.004
09	93A23234	04029338531 OUTSIDE AREA 4C, ADJACENT TO AC PIT #20	<12.7	<0.004
10	93A23235	04029338532 OUTSIDE AREA 4C, ADJACENT TO A/C PIT #20	17.8	0.005
11	93A23236	04029338533 FIELD BLANK #1	< LOD	-----
12	93A23237	04029338534 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(R)
LAB.NO.: 93-06766(P-07)
DATE: 04/21/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area 4D, WEST

DATE SAMPLED: 04/13/93
DATE RECEIVED IN LAB: 04/13/93
DATE ANALYZED: 04/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A26322	04139338541 INSIDE AREA 4D WEST	<12.7	<0.003
02	93A26323	04139338542 INSIDE AREA 4D WEST	<12.7	<0.003
03	93A26324	04139338543 INSIDE AREA 4D WEST	<12.7	<0.003
04	93A26325	04139338544 INSIDE AREA 4D WEST	<12.7	<0.003
05	93A26326	04139338545 INSIDE AREA 4D WEST	<12.7	<0.003
06	93A26327	04139338546 OUTSIDE AREA 4D WEST, ADJACENT TO A/C PIT #24	<12.7	<0.003
07	93A26328	04139338547 OUTSIDE AREA 4D WEST, ADJACENT TO A/C PIT #24	<12.7	<0.003
08	93A26329	04139338548 OUTSIDE AREA 4D WEST, ADJACENT TO A/C PIT #24	<12.7	<0.003
09	93A26330	04139338549 OUTSIDE AREA 4D WEST, ADJACENT TO A/C PIT #24	<12.7	<0.003
10	93A26331	04139338550 OUTSIDE AREA 4D WEST, ADJACENT TO A/C PIT #24	<12.7	<0.003
11	93A26332	04139338551 FIELD BLANK #1	< LOD	-----
12	93A26333	04139338552 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(S)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4D, EAST

DATE SAMPLED: 04/13/93
DATE RECEIVED IN LAB: 04/13/93
DATE ANALYZED: 04/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A26334	04139338513 ADJACENT TO AREA 4D EAST D/F	<12.7	<0.003
02	93A26335	04139338514 ADJACENT TO AREA 4D EAST D/F	<12.7	<0.003
03	93A26336	04139338515 FIELD BLANK #1	< LOD	-----
04	93A26337	04139338516 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(O)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4D, East

DATE SAMPLED: 04/05/93
DATE RECEIVED IN LAB: 04/13/93
DATE ANALYZED: 04/13/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A26030	04059338530 INSIDE AREA 4D, EAST	<12.7	<0.003
02	93A26031	04059338531 INSIDE AREA 4D, EAST	<12.7	<0.003
03	93A26032	04059338532 INSIDE AREA 4D, EAST	<12.7	<0.003
04	93A26033	04059338533 INSIDE AREA 4D, EAST	<12.7	<0.003
05	93A26034	04059338534 INSIDE AREA 4D, EAST	<12.7	<0.003
06	93A26035	04059338535 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
07	93A26036	04059338536 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
08	93A26037	04059338537 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
09	93A26038	04059338538 OUTSIDE AREA 4D, EAST ADJACENT TO AC PIT #20	<12.7	<0.003
10	93A26039	04059338539 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	< LOD	-----
11	93A26040	04059338540 FIELD BLANK #1	< LOD	-----
12	93A26041	04059338541 FIELD BLANK #2		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(P)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4D, East

DATE SAMPLED: 04/13/93
DATE RECEIVED IN LAB: 04/14/93
DATE ANALYZED: 04/14/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A26278	04139338517 INSIDE AREA 4D, EAST	<12.7	<0.003
02	93A26279	04139338518 INSIDE AREA 4D, EAST	<12.7	<0.003
03	93A26280	04139338519 INSIDE AREA 4D, EAST	<12.7	<0.003
04	93A26281	04139338520 INSIDE AREA 4D, EAST	<12.7	<0.003
05	93A26282	04139338521 INSIDE AREA 4D, EAST	13.4	0.003
06	93A26283	04139338522 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
07	93A26284	04139338523 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
08	93A26285	04139338524 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
09	93A26286	04139338525 OUTSIDE AREA 4D, EAST ADJACENT TO AC PIT #24	<12.7	<0.003
10	93A26287	04139338526 OUTSIDE AREA 4D, EAST ADJACENT TO A/C PIT #24	<12.7	<0.003
11	93A26288	04139338527 FIELD BLANK #1	< LOD	-----
12	93A26289	04139338528 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(O)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

DATE SAMPLED: 03/22/93
DATE RECEIVED IN LAB: 03/23/93
DATE ANALYZED: 03/23/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A19893	03229318401 INSIDE WORK AREA 4E, PHASE 2, SOUTH SIDE	<12.7	<0.003
02	93A19894	03229318402 INSIDE WORK AREA 4E, PHASE 2, NORTH SIDE	<12.7	<0.003
03	93A19895	03229318403 INSIDE WORK AREA 4E, PHASE 2, NORTH SIDE	<12.7	<0.003
04	93A19896	03229318404 INSIDE WORK AREA 4E, PHASE 2, CENTER	<12.7	<0.004
05	93A19897	03229318405 INSIDE WORK AREA 4E, PHASE 2, SOUTH SIDE	<12.7	<0.004
06	93A19898	03229318406 OUTSIDE WORK AREA 4E, BY AIRCRAFT MAINTENANCE	<12.7	<0.004
07	93A19899	03229318407 OUTSIDE WORK AREA 4E, BY BATHROOM IN MAINTENANCE AREA	<12.7	<0.004
08	93A19900	03229318408 OUTSIDE WORD AREA 4E, ADJACENT TO TARMAC	<12.7	<0.004
09	93A19901	03229318409 OUTSIDE WORK AREA 4E, NEXT TO EMERGENCY STAIRWELL		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
10	93A19902	03229318410 OUTSIDE WORK AREA, INSIDE BREAK ROOM OF MAINTENANCE	<12.7	<0.004
11	93A19903	03229318411 FIELD BLANK #1	< LOD	-----
12	93A19904	03229318412 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(P)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/23/93
DATE RECEIVED IN LAB: 03/24/93
DATE ANALYZED: 03/24/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20152	03239318401 DIRECTLY OUTSIDE ENTRANCE TO WORK DECON	<12.7	<0.005
02	93A20153	03239318402 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.005
03	93A20154	03239318403 OUTSIDE OF BUILDING 56	<12.7	<0.005
04	93A20155	03239318404 ADJACENT TO MICROTRAP EXHAUST	<12.7	<0.005
05	93A20156	03239318405 NEXT TO CRITICAL BARRIER (DOOR)	<12.7	<0.005
06	93A20157	03239318406 FIELD BLANK #1	< LOD	-----
07	93A20158	03239318407 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(Q)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/24/93
DATE RECEIVED IN LAB: 03/25/93
DATE ANALYZED: 03/25/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20400	03249318401 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON FACILITY	<12.7	<0.003
02	93A20401	03249318402 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON FACILITY	<12.7	<0.003
03	93A20402	03249318403 OUTSIDE OF BUILDING 56	<12.7	<0.003
04	93A20403	03249318404 ADJACENT TO NEGATIVE AIR UNIT EXHAUST	<12.7	<0.003
05	93A20404	03249318405 NEXT TO BARRIER	21.0	0.006
06	93A20405	03249318406 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON FACILITY	<12.7	<0.003
07	93A20406	03249318407 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON FACILITY	<12.7	<0.003
08	93A20407	03293318408 OUTSIDE OF BUILDING 56	<12.7	<0.003
09	93A20408	03259318409 ADJACENT TO NEGATIVE AIR UNIT EXHAUST	<12.7	<0.003
10	93A20409	03259318410 DIRECTLY ABOVE CONTAINMENT AREA DEPARTMENT LEVEL	<12.7	<0.003

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
11	93A20410	03249318411 FIELD BLANK #1	< LOD	-----
12	93A20411	03249318412 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719277

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(R)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/25/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20687	03259318401 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON	<12.7	<0.003
02	93A20688	03259318402 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.003
03	93A20689	03259318403 OUTSIDE OF BUILDING 56	<12.7	<0.003
04	93A20690	03259318404 ADJACENT TO (NAU'S) EXHAUST	<12.7	<0.004
05	93A20691	03259318405 DIRECTLY ABOVE CONTAINMENT AREA, DEPARTMENT LEVEL	<12.7	<0.004
06	93A20692	03259318406 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON	<12.7	<0.004
07	93A20693	03259318407 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.004
08	93A20694	03259318408 OUTSIDE OF BUILDING 56	<12.7	<0.004
09	93A20695	03259318409 ADJACENT TO (NAU'S) EXHAUST	<12.7	<0.004
10	93A20696	03259318410 DIRECTLY ABOVE CONTAINMENT DEPARTMENT LEVEL	< LOD	-----
11	93A20697	03259318411 FIELD BLANK #1	< LOD	-----
12	93A20698	03259318412 FIELD BLANK #2		

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(S)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/26/93
DATE RECEIVED IN LAB: 03/27/93
DATE ANALYZED: 03/27/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A20990	03269318401 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON	<12.7	<0.004
02	93A20991	03269318402 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.004
03	93A20992	03269318403 OUTSIDE BUILDING 56	<12.7	<0.004
04	93A20993	03269318404 ADJACENT TO NEGATIVE AIR UNIT EXHAUST	<12.7	<0.004
05	93A20994	03269318405 DIRECTLY ABOVE CONTAINMENT AREA, DEPARTMENT LEVEL	<12.7	<0.004
06	93A20995	03269318406 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON	<12.7	<0.003
07	93A20996	03269318407 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.003
08	93A20997	03269318408 OUTSIDE BUILDING 56	<12.7	<0.003
09	93A20998	03269318409 ADJACENT TO NEGATIVE AIR UNITS EXHAUST	<12.7	<0.003
10	93A20999	03269318410 DIRECTLY ABOVE CONTAINMENT AREA, DEPARTMENT LEVEL	<12.7	<0.003
11	93A21000	03269318411 FIELD BLANK #1	< LOD	-----
12	93A21001	03269318412 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(T)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/29/93
DATE RECEIVED IN LAB: 03/30/93
DATE ANALYZED: 03/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A21409	03299318401 DIRECTLY OUTSIDE WORKER DECON FACILITY	<12.7	<0.003
02	93A21410	03299318402 DIRECTLY OUTSIDE WASTE DECON FACILITY	<12.7	<0.003
03	93A21411	03299318403 OUTSIDE BUILDING 56	<12.7	<0.003
04	93A21412	03299318404 ADJACENT TO NEGATIVE AIR UNITS EXHAUST	<12.7	<0.003
05	93A21413	03299318405 DIRECTLY ABOVE CONTAINMENT AREA, DEPARTMENT LEVEL	<12.7	<0.003
06	93A21414	03299318406 FIELD BLANK #1	< LOD	-----
07	93A21415	03299318407 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(U)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Seven (7)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/29/93
DATE RECEIVED IN LAB: 03/30/93
DATE ANALYZED: 03/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A21416	03299318401 DIRECTLY OUTSIDE ENTRANCE TO WORKER DECON	<12.7	<0.004
02	93A21417	03299318402 DIRECTLY OUTSIDE ENTRANCE TO WASTE DECON	<12.7	<0.004
03	93A21418	03299318403 OUTSIDE BUILDING 56	<12.7	<0.004
04	93A21419	03299318404 ADJACENT TO NEGATIVE AIR UNITS EXHAUST	<12.7	<0.004
05	93A21420	03299318405 DIRECTLY ABOVE CONTAINMENT AREA, DEPARTMENT LEVEL	<12.7	<0.004
06	93A21421	03299318406 FIELD BLANK #1	< LOD	-----
07	93A21422	03299318407 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(V)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E

DATE SAMPLED: 03/30/93
DATE RECEIVED IN LAB: 03/30/93
DATE ANALYZED: 03/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A21433	03309338517 INSIDE WORK AREA, NORTH SIDE	<12.7	<0.003
02	93A21434	03309338518 INSIDE WORK AREA, EAST SIDE	17.2	0.004
03	93A21435	03309338519 INSIDE WORK AREA, SOUTHEAST SIDE	13.4	0.003
04	93A21436	03309338520 INSIDE WORK AREA, WEST SIDE	17.2	0.004
05	93A21437	03309338521 INSIDE WORK AREA, NORTHWEST SIDE	21.0	0.004
06	93A21438	03309338522 OUTSIDE WORK AREA, ADJACENT TO A/C PIT #24	<12.7	<0.003
07	93A21439	03309338523 OUTSIDE WORK AREA, ADJACENT TO A/C PIT #24	<12.7	<0.003
08	93A21440	03309338524 OUTSIDE WORK AREA, ADJACENT TO A/C PIT #24	<12.7	<0.003
09	93A21441	03309338525 OUTSIDE WORK AREA, ADJACENT TO A/C PIT #24	<12.7	<0.003
10	93A21442	03309338526 OUTSIDE WORK AREA, ADJACENT TO A/C PIT #24	<12.7	<0.003
11	93A21443	03309338527 FIELD BLANK #1	< LOD	-----
12	93A21444	03309338528 FIELD BLANK #2	< LOD	-----

< = LESS THAN
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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(J)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4E, Glovebag

DATE SAMPLED: 04/01/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22062	04019338517 INSIDE WEST TENT AREA 4E	<12.7	<0.004
02	93A22063	04019338518 INSIDE WEST TENT AREA 4E	<12.7	<0.004
03	93A22064	04019338519 INSIDE WEST TENT AREA 4E	<12.7	<0.004
04	93A22065	04019338520 OUTSIDE AREA 4E, TENT (WEST), PIT #24	<12.7	<0.004
05	93A22066	04019338521 OUTSIDE AREA 4E, TENT (WEST), PIT # 24	<12.7	<0.004
06	93A22067	04019338522 OUTSIDE AREA 4E, TENT (WEST), PIT #24	<12.7	<0.004
07	93A22068	04019338523 FIELD BLANK #1	< LOD	-----
08	93A22069	04019338524 FIELD BLANK #2	< LOD	-----

< = LESS THAN
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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(K)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4E, Glovebag

DATE SAMPLED: 04/01/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22070	04019338525 INSIDE EAST TENT AREA 4E	<12.7	<0.004
02	93A22071	04019338526 INSIDE EAST TENT AREA 4E	<12.7	<0.004
03	93A22072	04019338527 INSIDE EAST TENT AREA 4E	<12.7	<0.004
04	93A22073	04019338528 OUTSIDE EAST TENT, AREA 4E, PIT #24	<12.7	<0.004
05	93A22074	04019338529 OUTSIDE EAST TENT, AREA 4E, PIT # 24	30.6	0.009
06	93A22075	04019338530 OUTSIDE EAST TENT, AREA 4E, PIT #24	<12.7	<0.004
07	93A22076	04019338531 FIELD BLANK #1	< LOD	-----
08	93A22077	04019338532 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(W)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E, Glovebags

DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22094	03319338517 INSIDE AREA 4E, WEST TENT/ GLOVEBAG AREA	<12.7	<0.004
02	93A22095	03319338518 INSIDE AREA 4E, WEST TENT/ GLOVEBAG AREA	15.3	0.005
03	93A22096	03319338519 INSIDE AREA 4E, WEST TENT/ GLOVEBAG AREA	<12.7	<0.004
04	93A22097	03319338520 OUTSIDE AREA 4E, ADJACENT TO PIT #24	38.2	0.011
05	93A22098	03319338521 OUTSIDE AREA 4E, ADJACENT TO PIT #24	<12.7	<0.004
06	93A22099	03319338522 OUTISDE AREA 4E, ADJACENT TO PIT #24	26.8	0.008
07	93A22100	03319338523 FIELD BLANK #1	< LOD	-----
08	93A22101	03319338524 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(X)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Eight (8)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E, Glovebags

DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22102	03319338525 INSIDE AREA 4E, EAST TENT/ GLOVEBAG AREA	<12.7	<0.004
02	93A22103	03319338526 INSIDE AREA 4E, EAST TENT/ GLOVEBAG AREA	<12.7	<0.004
03	93A22104	03319338527 INSIDE AREA 4E, EAST TENT/ GLOVEBAG AREA	54.81	0.016
04	93A22105	03319338528 OUTSIDE AREA 4E, ADJACENT TO PIT #24	48.4	0.014
05	93A22106	03319338529 OUTSIDE AREA 4E, ADJACENT TO PIT #24	<12.7	<0.004
06	93A22107	03319338530 OUTSIDE AREA 4E, ADJACENT TO PIT #24	47.1	0.014
07	93A22108	03319338531 FIELD BLANK #1	< LOD	-----
08	93A22109	03319338532 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(Z)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E, Glovebags

DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22110	03319338533 ADJACENT TO EAST TENT, IN AREA 4E	<12.7	<0.003
02	93A22111	03319338534 ADJACENT TO EAST TENT, IN AREA 4E	43.3	0.001
03	93A22112	03319338535 FIELD BLANK #1	< LOD	-----
04	93A22113	03319338536 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(A1)
LAB.NO.: 93-06766(P-06)
DATE: 04/24/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E, Glovebags

DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A22114	03319338537 ADJACENT TO WEST TENT, IN AREA 4E	30.6	0.008
02	93A22115	03319338538 ADJACENT TO WEST TENT, IN AREA 4E	<12.7	<0.005
03	93A22116	03319338539 FIELD BLANK #1	< LOD	-----
04	93A22117	03319338540 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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P 719288

Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(Q)
LAB.NO.: 93-06766(P-07)
DATE: 04/20/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #1

DATE SAMPLED: 04/13/93
DATE RECEIVED IN LAB: 04/15/93
DATE ANALYZED: 04/15/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A26310	04139338529 INSIDE AREA 1 BATHROOMS	<12.7	<0.003
02	93A26311	04139338530 INSIDE AREA 1 BATHROOMS	<12.7	<0.003
03	93A26312	04139338531 INSIDE AREA 1 BATHROOMS	<12.7	<0.003
04	93A26313	04139338532 INSIDE AREA 1 BATHROOMS	<12.7	<0.003
05	93A26314	04139338533 INSIDE AREA 1 BATHROOMS	<12.7	<0.003
06	93A26315	04139338534 OUTSIDE AREA 1 BATHROOMS, ADJACENT TO A/C PIT #24	<12.7	<0.003
07	93A26316	04139338535 OUTSIDE AREA 1 BATHROOMS, ADJACENT TO A/C PIT #24	<12.7	<0.003
08	93A26317	04139338536 OUTSIDE AREA 1 BATHROOMS, ADJACENT TO A/C PIT #24	<12.7	<0.003
09	93A26318	04139338537 OUTSIDE AREA 1 BATHROOMS, ADJACENT TO AC PIT #24	17.2	0.004
10	93A26319	04139338538 OUTSIDE AREA 1 BATHROOMS, ADJACENT TO A/C PIT #24	<12.7	<0.003
11	93A26320	04139338539 FIELD BLANK #1	< LOD	-----
12	93A26321	04139338540 FIELD BLANK #2	< LOD	-----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

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Laboratory Testing Services

CLIENT: H+GCL
261 Madison Avenue
New York, New York 10016
Attention: Mr. Paul Geohegan

PROJECT NO.: 6766(J)
LAB.NO.: 93-06766
DATE: 05/13/93

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
SAMPLING SITE: JFK Building 56, Phase IV, Work Area 7A

DATE SAMPLED: 04/29/93
DATE RECEIVED IN LAB: 04/30/93
DATE ANALYZED: 04/30/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION (f/mm^2)	CONCENTRATION (f/cc^3)
01	93A30450	04299338525-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 3	<12.7	<0.003
02	93A30451	04299338526-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 4	<12.7	<0.003
03	93A30452	04299338527-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 4	<12.7	<0.003
04	93A30453	04299338528-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 5	<12.7	<0.003
05	93A30454	04299338529-INSIDE AREA 7A, ADJACENT TO COLUMN LINE 6	<12.7	<0.003
06	93A30455	04299338530-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 7	<12.7	<0.003
07	93A30456	04299338531-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 8	<12.7	<0.003
08	93A30457	04299338532-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 8	<12.7	<0.003
09	93A30458	04299338533-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 9	<12.7	<0.003
10	93A30459	04299338534-OUTSIDE AREA 7A, ADJACENT TO COLUMN LINE 9	<12.7	<0.003
11	93A30460	04299338535-FIELD BLANK #1	< LOD	----
12	93A30461	04299338536-FIELD BLANK #2	< LOD	----

< = LESS THAN
<LOD = LESS THAN LIMIT OF DETECTION

Note: Airborne concentration has been derived based on volume information supplied by the client. Laboratory Testing Services, Inc. does not certify the accuracy of the reported volume and therefore the derived air concentra*tion. The air concentration data supplied is done so only for the convenience of the sampling agency.

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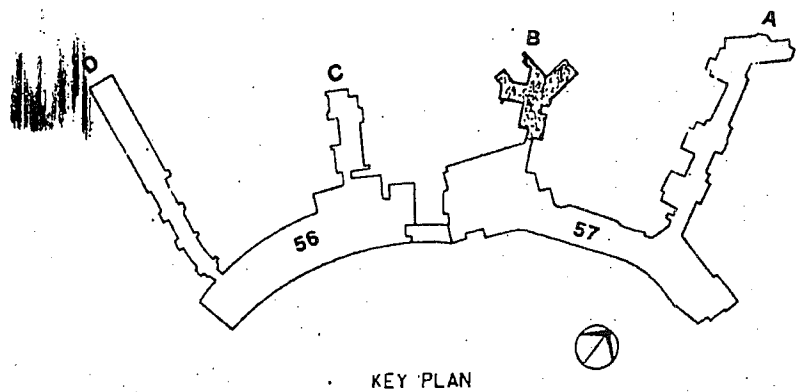
REMOVED
.CTOR

(TYP.)

bottom of cleaned beam surface or cleaned strip of ceiling deck.

9. Contractor shall construct a critical barrier wall enclosure from floor to ceiling in gate holding room. See Detail 2 on Drawing D-1 for details.



KEY PLAN

PROJECT NO. 7021.46

DRN. BY

PART PLAN – BUILDING 57
GATES 4, 5 AND 6

1/5/94	REVISED AS PER AA CHANGE IN SCOPE	A E
2 9/17/93	REVISED AS PER AA CHANGE IN SCOPE	S C
		WO

DATE 4•27•93

ASB-

SHEET 3 0

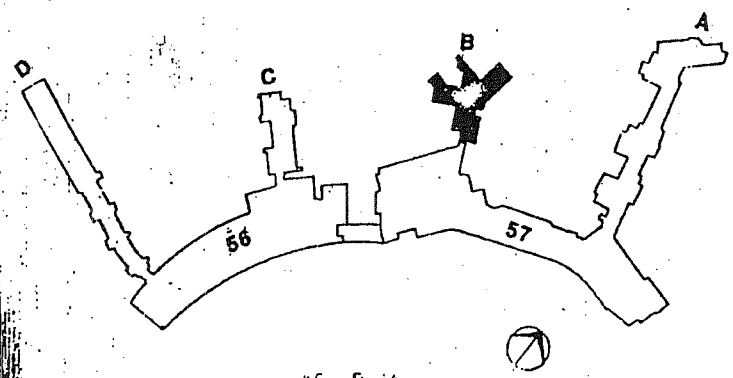
NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

P 722271

P 722277

bottom of cleaned beam surface or cleaned strip of ceiling deck.

9. Contractor shall construct a critical barrier wall enclosure from floor to ceiling in gate holding room. See Detail 2 on Drawing D-1 for details.



PROJECT NO. 7021.45

DWG BY

PART PLAN — BUILDING 57
GATES 4, 5 AND 6

2	8/17/93	REQUESTED AS PER CHANGE IN SCOPE
1	5/21/93	ADDENDUM

A. E
S. C
M WQ
P. PM

DATE 4-27-93

ASB-3

SHEET 3 OF 4

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

9 4 0 1 0 0

PORT AUTHORITY & TENANT

ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract/ Work Order Number	Contractor	Material Quantity	Material	Estimated Cost	Estimated Start	Cost Recovery Memo Date	Job Type	Reason for Abatement
AVIATION JFK 57	4	AMERICAN AIRLINES, 215.018 GATES 4, 6, AND 14-LOADING BRIDGES	Loading bridges for American Airlines	Y-5941B	NAACO	830 SF/320 SF	FP/F-TILE	85000	/ /	08/12/88	T	RENOVATION AND ALTERATION OF TENANT SPACE.

PORT AUTHORITY & TENANT
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract/ Work Order Number	Contractor	Material Quantity	Material	Estimated Cost	Estimated Start	Cost Recovery Memo Date	Job Type	Reason For Abatement
59												
AVIATION / JFK GATE 16	AMERICAN AIRLINES TERMINAL	215.058		Y-6088A				55000	/ /	/ /	TW	WAIVER LETTER TO FOLLOW

PORT AUTHORITY & TENANT
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract/ Work Order Number	Contractor	Material Quantity	Material	Estimated Cost	Estimated Start	Cost Recovery Memo Date	Job Type	Reason For Abatement
A\												
AVIATION JFK AA_TERMINA	AMERICAN AIRLINE TERMINAL BUILDING	215.074		Y-6060B		1,100SF/10LF	FP/PIPE	40000	/ /	08/07/89	TP	

PORT AUTHORITY & TENANT
ASBESTOS ABATEMENT PROJECTS

Department Facility and Building	Area	Job Number	Space Type and Use	Contract/ Work Order Number	Contractor	Material Quantity	Material	Estimated Cost	Estimated Start	Cost Recovery Memo Date	Job Type	Reason For Abatement
AVIATION JFK BLDG 57 53	AMERICAN AIRLINES AIRBRIDGE CANOPIES	215.099	GATES 4B,12,4A,5A,14A,15 A,15B	Y-6202	L. ROBERT LARSON INC	2450SF	FIRE BLANKETS	20000	/ /	01/01/01	TW	REPLACEMENT OF WORN CANOPIES - TENANT WAIVER LETTER REC'D 1/8/90