

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

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		AIR TEST	FINAL AIR TEST	LOGS		REQUEST STATUS
												AMOUNT (CYDS)	STATUS			M1, M2, M3	MNT, RE, AMCD	
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	ADVATEX	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
215.136	JFK	AMERICAN NEST 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

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		AIR TEST	FINAL AIR TEST	LOGS		REQUEST STATUS
												AMOUNT (CYDS)	WASTE STATUS			M1, M2, M3	AMCD	
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 CTB, 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

CONTRACTOR	CONTRACT #	JOB STATUS	LANDFILL	PROC/ SPEC	BULK SAMPLES	DRAWINGS	EPA NOTIF	EPA STATUS	WASTE			FINAL AIR TEST	LOGS		
									AMOUNT (CYDS)	WASTE STATUS	AIR TEST		MNT, RE, AMCD	M1, M2, M3	REQUES STATUS

1 AIRLINES ROOF ABOVE AREA

Y-6060G	COMPLETE	P	NO	NO	NO	/ /	P	P	P	NO	NO				STAT
---------	----------	---	----	----	----	-----	---	---	---	----	----	--	--	--	------

01/03/01

HEALTH, ENVIRONMENT AND CONSERVATION DIVISION
ASBESTOS ABATEMENT ACTIVITIES

JOB NUMBER	FACILITY	AREA	CONTRACTOR	CONTRACT #	JOB STATUS	LANDFILL	PROC/ SPEC	BULK SAMPLES	DRAWINGS	EPA NOTIF	EPA STATUS	WASTE			AIR TEST	FINAL AIR TEST	LOGS			REQUEST STATUS
												AMOUNT (CYDS)	WASTE STATUS	P			M1, M2, M3	M1, M2, M3		
215.118	JFK	AMERICAN AIRLINES AIRCRAFT MAINTENANCE AREA	KAN KLEAN INC/HYGIENETICS	Y-6060P	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

P 502110

ORIGINAL FILE

THE PORT AUTHORITY OF NY & NJ

Memorandum

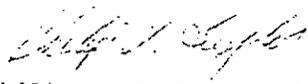
TO: Paul Fernandez, Tenant Liaison
FROM: Philip A. Taylor
DATE: March 6, 1991
SUBJECT: REVIEW OF ASBESTOS ABATEMENT CONTRACTOR'S SUBMITTAL: JOHN F. KENNEDY INTERNATIONAL AIRPORT. AMERICAN AIRLINES, BUILDING #57, JOB #215.118, T.5060F

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.

P 502111

CHRONO FILETHE PORT AUTHORITY OF NY & NJ

Memorandum

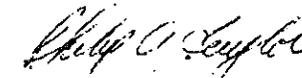
TO: Paul Fernandez, Tenant Liasion
FROM: Philip A. Taylor
DATE: February 20, 1991
SUBJECT: APPROVAL OF ASBESTOS ABATEMENT SUBMITTALS: JOHN F. KENNEDY
INTERNATIONAL AIRPORT - AMERICAN AIRLINES, HANGAR #10,
JOB #215.158, Y-6140A

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

P 502116

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEYASBESTOS 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, ~~P. Taylor~~, 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.

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

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 AHD PLACARD	EPA NOTIF/ RENTIF	PROCE- DURES	DRAW- INGS	CHECK LISTS	WASTE INSPC	AIR SMPL	AIR SMPL	AIR SMPL	FINAL CLEAR MEMO	FINAL INSPC MEMO	OSHA WASTE MANIF	AIR MONIT	RE NARR	FINAL WORK REPR	FINAL 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
215.551	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 TYPE OF FEET ASBESTOS	COMPONENTS OF ASBESTOS PRODUCT
AVIATION	JFK	BASEMENT, GROUND LEVEL - BAGGAGE, 1ST FLOOR - PUMP ROOM, 2 ND FLOOR - LOBBY AND CUSTOMS	DS7	AMERICAN AIR UNIT TERMINA	FP	197100	0 CHRYSOTILE	TO 75% WOLLEN FIBERS 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 TYPE OF FEET 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 TYPE OF FEET ASBESTOS	COMPONENTS OF ASBESTOS PRODUCT
AVIATION AVIATION	JFK	010	AMERICAN AIRLINES HANGAR		PIPE	0	4650	16% AVG

April 20, 1992

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

Phase I

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

Dear Mr. Capasso:

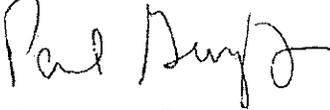
We are attaching the final air clearance sampling results for the above mentioned project. This work involved the removal of sprayed-on fireproofing and pipe insulation from the West Public Bathrooms in Building #57.

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



For Gary Pelletier
Project Director

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

GP#2/L0097



K1812

ASBESTOS AIR SAMPLING RECORD				DATE: 4/17/92	ACCOUNTABILITY RECORD PAGE 1 OF 1
BLDG. & PROJECT NAME: American Airlines Building 57 JFH West Public Bathroom				REQUESTED COMPLETION DATE: 4/17/92	
				JOB NO: 7021-36 BATCH NO: _____	
				CLIENT NAME: American Airlines	
				SAMPLER'S NAME: Bill Binkham	
				SIGNATURE: <i>Bill Binkham</i>	
				DATE: 4/17/92 TIME COMPLETED: 7:40	
				DELIVERED TO LAB BY: <i>Hand Delivered by Bill Binkham</i>	
				LAB NAME: C.T.S.	
				RECEIVED BY: <i>Karen Losnedal</i>	
				DATE: 4/17/92 TIME: 1:00 PM INITIALS: <i>KL</i>	
				ANALYST: <i>Larry Aker</i> SCOPE #: <i>MCM</i>	
				DATE COMPLETED: 4/17/92 TIME: _____	
				ANALYSIS METHOD: <i>WSP-7 7960</i>	
				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)			SAMPLING TIME			VOLUME (LITERS)	FIBERS PER CC	AVERAGE BLANK COUNT	ANALYST'S CV	LOG	FIBERS PER CC	UPPER CONFIDENCE LIMIT
		START	STOP	AVERAGE	START	STOP	TOTAL							
1	18997	02282	12.3	12.3	12.3	0900	1140	160	1968					
2	18998	02282	12.3	12.3	12.3	0900	1140	160	1968					
3	18999	02282	12.3	12.3	12.3	0900	1140	160	1968					
4	19000	02282	12.3	12.3	12.3	0900	1140	160	1968					
5	19001	02282	12.3	12.3	12.3	0900	1140	160	1968					
6	19002	---	B	L	A	N	K	#1	---					
7	19003	---	B	L	A	N	K	#2	---					
8														
9														
10														

SPECIAL COMMENTS: Please Fax Results to HIGGL and Jeff Emils Port Authority (718) 244-6450

* SAMPLE TYPE CODES	** WORK AREA ACTIVITY CODES
PCM = PHASE CONTRAST MICROSCOPY	1 = PREABATEMENT BACKGROUND
TEM = TRANSMISSION ELECTRON MICROSCOPY	2 = PREPARATION OF WORK AREA
SEM = SCANNING ELECTRON MICROSCOPY	3 = ASBESTOS REMOVAL WORK
A = PERSONAL EXPOSURE SAMPLE	4 = CLEAN UP OF WORK AREA
B = WORK AREA CLEARANCE	5 = WASTE REMOVAL
C = PREABATEMENT BACKGROUND	6 = GLOVE BAG REMOVAL WORK
D = OUTSIDE WORK AREA	7 = WORK AREA CLEARANCE
E = INSIDE WORK AREA	8 = MAINTENANCE ACTIVITY
F = AIR QUALITY/ENVIRONMENTAL	9 = ACBM REPAIR ACTIVITY
G = HEPA EXHAUST DISCHARGE	10 = ACBM ENCAPSULATION OR ENCLOSURE
H = DECONTAMINATION FACILITY	11 = CLEANING OR DECONTAMINATION
I = BLANK SAMPLE	12 = NOT APPLICABLE

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

CLIENT BILLING INSTRUCTIONS: _____ SAMPLES @ \$ _____ = \$

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	<u>100</u> Sq.Ft.	_____ Sq.Ft.	
Duct Insulation	_____ Sq.Ft.	_____ Sq.Ft.	
Spray-on fireproofing	<u>1540</u> Sq.Ft.	<u>1540</u> Sq.Ft.	
Transite Material	_____ Sq.Ft.	_____ Sq.Ft.	
Cable Insulation	_____ Sq.Ft.	_____ L.Ft.	
Other	_____	_____	_____ Cu.Ft.
Estimated Cost*	\$ <u>28,000</u>	\$ <u>2,000</u>	\$ _____

*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 Engr EPH

Date 3/19/92

Asbestos Management Signature [Signature]

And Compliance Division Title A.M.D.

Date 3/19/92

Notification of Demolition and Renovation

OFFICE
OF GENERAL PLANNING
NEW YORK, NY 10077

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:		Nonfriable Asbestos Material Not To Be Removed	
1. Regulated ACM to be removed		RACM: To Be Removed	Indicate Unit of Measurement Below
2. Category I ACM Not Removed			
3. Category II ACM Not Removed			
Fiber	CHRYSOTILE		100
Surface Area	CHRYSOTILE		1,540
Vol. RACM Off-Facility Component			
VIII. SCHEDULED DATES ASBESTOS REMOVAL (IMMEDIATE) Start: MARCH 25, 1992 Complete: APRIL 20, 1992			
IX. SCHEDULED DATES DEMORENOVATION (IMMEDIATE) Start: APRIL 22, 1992 Complete: MAY 30, 1992			

NOTIFICATION OF DEMOLITION AND RENOVATION WORK

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 for 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 CRUMBLING, PULVERIZED, OR REDUCED TO POWDER. All Asbestos Materials are to be removed within containment walls.

XVII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF 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)

(date)

3-17-92

XVIII. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT

FOR AMERICAN AIRLINES

(Signature of Owner/Operator)

(date)

3-17-92

AMERICAN AIRLINES
BUILDING 57 - J.F.K

PA-3677
8-90

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.

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

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

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 _____ 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	<u>100</u> Sq.Ft.	___ Sq.Ft.	
Duct Insulation	_____ Sq.Ft.	_____ Sq.Ft.	
Spray-on fireproofing	<u>1540</u> Sq.Ft.	<u>1540</u> Sq.Ft.	
Transite Material	_____ Sq.Ft.	_____ Sq.Ft.	
Cable Insulation	_____ Sq.Ft.	_____ L.Ft.	
Other	_____	_____	___ Cu.Ft
Estimated Cost*	\$ <u>28,000</u>	\$ <u>2,000</u>	\$ _____

*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?

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) | <u>X</u> YES | _____ NO |
| 5. Dust Tight Chutes | _____ YES | _____ NO |
| 6. Wetting Down | <u>X</u> YES | _____ NO |
| 7. Use of Surfactant | <u>X</u> 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 PRÖDAN
Principal _____

F. Asbestos Waste Disposal
Name of Hauler ASBESTOS CARTING CORP. NYDEC2A-189
Lic. Number
Address of Hauler 1199 RANDALL AVENUE
Contact Person WALLACE GROSCHE 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 Signature *Paul Fernandez*
And Compliance Division Title A.M.D.
Date 3/19/92

CLIENT NAME/ADDRESS: DPK SERVICES, INC.
 40 SHERWOOD AVE.
 EDISON, NJ
 ATTENTION: GLEN E. REISS
 011804
 CLIENT PROJECT#: 4-1989 AMER. AIRLIN.

ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.5%

ANALYST SIGNATURE: *MERLE JANTZ*
 MERLE JANTZ
 1080
 411804

CLIENT SAMPLE ID	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBER CONC. (F/WGT)	FIBER DENSITY (g/cc)	LAB. #
09118901	9/11/89	9/20/89	A/A - SKYCHEF/9:30 - 12:30	450.0	92.0/100	117.2	101
09129802	9/12/89	9/20/89	A/A - SKYCHEF/9:00 - 11:00	303.5	3.5/100	4.5	106
09138901	9/13/89	9/20/89	A/A - SKYCHEF/7:00 - 10:00	466.0	72.0/100	91.7	105
09138902	9/13/89	9/20/89	A/A - SKYCHEF/11:00 - 12:30	231.7	46.5/100	58.8	103
09149901	9/14/89	9/20/89	A/A - SKYCHEF/8:00 - 11:00	390.0	59.0/100	87.2	104
09118901	9/11/89	9/20/89	C.O. 465 A/A - SKYCHEF/7:30 - 9:30	409.2	102.0/31	419.1	102

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED
 ** FIBERS ON FIELD AND FIBER GENTLY REJECT SUBTRACTION OF GUNK VALUES WHERE APPLICABLE
 *** LOWER LIMIT OF RELIABLE QUANTIFICATION BASED ON MINIMUM OF 0.1 FIBERS PER FIELD
 NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIED FOR AIRBORNE
 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.

SEP 29 1989



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/14/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012327
 CLIENT PROJECT#: B & A AIR #156

08817

ANALYST SIGNATURE:

Merle Jantz
 MERLE JANTZ

MERLE JANTZ

AIHA AAR#: 1080

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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012255
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

08817

ANALYST SIGNATURE: *Merle Jantz*
 MERLE JANTZ
 AIHA AAR#: 1080
 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) **	LRO (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.
- *** 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012255
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

08817

ANALYST SIGNATURE:

Merle Jantz
 MERLE JANTZ

AIHA AAR#: 1080

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)
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.
- ** 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012255
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYST SIGNATURE: *Merle Jantz*
 MERLE JANTZ
 AIHA AAR#: 1080
 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) **	LRO (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.
 ** 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012255
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

08817

ANALYST SIGNATURE:

Melinda Teffetei
 MELINDA TEFFETEI

AIHA AAR#: 1512

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.
 ** 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.



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#: D12087
 CLIENT PROJECT#: AMER. AIR. PO #611

ANALYST SIGNATURE: MERLE JANTZ
 MERLE JANTZ
 AIHA AARE: 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) **	LKG (F/CC) ***	RESUL (F/CC)
1020901		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				GLMX
1023901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	9.0/100	11.5	.009	.001
1023902		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/51	259.7	.009	.171
1024901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	780.0	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	115.3	.006	.051
1025902	*	11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	882.9	12.0/100	15.3	.006	.007
1026901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.5/100	8.3	.006	.004
1027801		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.	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

GLMIX - 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012067
 CLIENT PROJECT#: AMER. AIR. PO #611

088-7

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIR# 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) **	LRQ (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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

CLIENT NAME/ADDRESS: DKO SERVICES, INC.
40 BALDWIN AVE.
EDISON, NJ
ATTENTION: ELLEN E. REIFF
SST JOB#: 012087
CLIENT PROJECT#: AMER. AIR. FO #611

08817

ANALYST SIGNATURE: MERLE JANTZ
MERLE JANTZ
ATHA AARB: 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) **	LRG (F/CC) ***	RESULT (F/CC)
1020901		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				GLMIX
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	259.7	.009	.174
1024901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	769.0	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	115.3	.006	.031
1025902	*	11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	982.9	12.0/100	15.3	.005	.003
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	.005	.017
1027902	*	11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.6	41.0/100	52.2	.009	.015
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	79.8	.006	.035
1035903		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	692.5	24.0/100	30.6	.007	.011
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

GLMIX - 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

ANALYST SIGNATURE: MARLENE JANTZ

ALPHA AAR# 1080

08817

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ
ATTENTION: ELLEN E. KEIFF

SSI JOB#: 012067

CLIENT PROJECT#: AMER. AIR. PO #611

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CLIENT SAMPLE ID	DATE RECEIVED	ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (liters)	FIBERS PER FIELD	DENSITY (f/cm ²)	LOG (F/CC)	RESULT
1031903	11/13/89	11/13/89	PERSONAL AA GATE 8 SEEP	784.8	18.0/100	22.9	.006	.011
1101901	11/13/89	11/13/89	PERSONAL AA GATE 4 SEEP	775.2	25.5/100	32.5	.006	.015
1101902	11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	768.0	101.5/50	258.6	.003	.130

* SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
** FIBERS PER FIELD AND FIBER DENSITY REPORT QUANTIFICATION OF BLANK VALUE WERE 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011882
 CLIENT PROJECT#: B/A-A/A 14359/14559

08817

ANALYST SIGNATURE: MERLE JANTZ
 MERLE JANTZ
 AIHA 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/MM ²) **	LRO (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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

CLIENT NAME/ADDRESS: OKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ
ATTENTION: ELLEN E. REIFF
SSI JOB#: 011882
CLIENT PROJECT#: B/A-A/A 14359/14559

08817

ANALYST SIGNATURE: MERLE JANTZ JR
MERLE JANTZ
AIHA 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) **	LRO (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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hurm

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011882
 CLIENT PROJECT#: B/A-A/A P.O. #527

08817

PAUL HURM

AIHA AAR#: 1512

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/MM ²) **	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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011801
 CLIENT PROJECT#: BRIT. & AMER. AIR

08817

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

AIHA AAR#: 1512

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) **	LRO (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 (CRET)	468.0	7.0/100	8.9	.010	.007
10058902		10/12/89	10/13/89	PERSONAL AA GATE (CRET)	364.8	5.0/100	6.4	.013	.007
10058903		10/12/89	10/13/89	PERSONAL AA GATE 7 (CRET)	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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011801
 CLIENT PROJECT#: BRIT. & AMER. AIR

ANALYST SIGNATURE: *Gary Landini*
 GARY LANDINI
 AIHA AAR#: 1833
 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.



PHASE CONTRAST MICROSCOPY REPORT

SEP 29 1989

REPORT DATE: 9/22/89

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011636
 CLIENT PROJECT#: BRITISH/AMERICAN AIR

ANALYST SIGNATURE: MERLE JANTZ
 MERLE JANTZ
 AIHA AAR#: 1080
 ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.54

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM ²) **	LRG (F/CC) ***	RESULT (F/CC)
P1-09158901		9/22/89	9/22/89	A/A GATE 10	246.8	21.0/100	26.9	.014	.007
P1-09158902		9/22/89	9/22/89	A/A GATE 10	350.4	10.0/100	12.7	.014	.014

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

VOID CODES

VOID1 - FILTER TORN/DAMAGED/DISLOGGED

- * 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/22/99

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN S. REIFF
 SSI USER: 011639
 CLIENT PROJECT#: BRITISH/AMERICAN AIR

02817

SEP 29 1999

CLIENT SIGNATURE: MERLE JANJZ
 MERLE JANJZ
 AIHA AAR#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.24

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/CM ²) **	LRQ (F/CM ²) ***	RESULT (F/CM ²)
000001		9/22/99	9/22/99	A/A DATE 10	361.2				GMIX

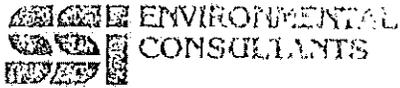
OVERLOAD CODES

GMIX - 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/14/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012327
 CLIENT PROJECT#: B & A AIR #166

08817

ANALYST SIGNATURE:

Merle Janitz
 MERLE JANITZ

AIHA AAR# 4080

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/MM ²) **	LRO (F/CC) ***	RESULT (F/CC)
1229-02		12/14/89	12/14/89	PERSONAL AA GATE 8	384.0	102.5/ 44	236.9	.013	.299
1279-01		12/14/89	12/14/89	PERSONAL AA GATE 8	385.2	106.0/ 28	482.3	.013	.462
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.

REPORT DATE: 12/09/89

ANALYST SIGNATURE: *[Signature]*

MERES 10472

APR. AREA: 3030

ANALYTICAL TEST METHOD: HIGH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

CLIENT NAME/ADDRESS: DKP SERVICES, INC.

40 BRONWICK AVE.
EDISON, NJ
ELLEN C. REEF

09677

ATTENTION:

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/CC)	LAD (F/CC)	RESULT (F/CC)
11150-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	68.0/100	86.6	.009	.056
11169-03		12/07/89	12/08/89	PERSONAL AA GATE 8	467.5	100.5/100	162.4	.010	.070
11175-02		12/07/89	12/08/89	PERSONAL AA GATE 8	384.0	23.0/100	29.3	.012	.029
11209-02		12/07/89	12/08/89	PERSONAL AA GATE 8	378.0	16.5/100	21.0	.013	.021
1219-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	2.5/100	3.2	.009	.002

VOID CODES

VOID# - USEABLE 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 HIGH 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/05/89

CLIENT NAME/ADDRESS: DWP SERVICES, INC.
 60 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. PERFE
 CSI JOB#: 012265
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYST SIGNATURE: *Mark J. Kelly*

MSDF 14412

ADHA LAB#: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 15.0%

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/CM ²) **	LSD (F/CM ²) **	RESULT (F/CM ²)
039-04		12/07/89	12/07/89	PERSONAL AA GATE 9	555.0	70.0/100	89.2	.003	.003
039-03		12/07/89	12/07/89	PERSONAL AA GATE 7	556.2	2.0/100	2.5	.003	.002
039-06		12/07/89	12/07/89	PERSONAL AA GATE 4	459.0	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	.039	.012
133-03		12/07/89	12/07/89	PERSONAL AA GATE 8	376.8	5.0/100	7.6	.013	.008
149-04		12/07/89	12/07/89	PERSONAL AA GATE 6	381.8	8.5/100	10.8	.013	.011

SAMPLE RECEIVED WITH TOP PORTION OF 3 PLICE 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. SSC IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012255
 CLIENT PROJECT: BRITISH AIR/AMERICAN

ANALYST SIGNATURE: *Mark G. [Signature]*

RESULS UNIT: 7

AIMS LABEL: 1250

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 12.0.33

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD	FIBER DENSITY (F/CM ²)	LRD (F/CC)	RESULT (F/CC)
1039-02		12/07/89	12/07/89	PERSONAL AA GATE 7	335.2	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	.025	.107
1039-03		12/07/89	12/07/89	PERSONAL AA GATE 4	775.2				MIX
1039-04									
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	366.4	12.0/100	15.3	.013	.015
1079-02		12/07/89	12/07/89	PERSONAL AA GATE 9	384.0	21.5/100	27.4	.019	.027
1089-03		12/07/89	12/07/89	PERSONAL AA GATE 7	574.2	6.0/100	7.6	.009	.005

OVERLOAD CODES

OMIX - 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 WHEN 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. ECI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

CLIENT NAME/ADDRESS: OGP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012255
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYST SIGNATURE: *Melinda Teffeteller*

MELINDA TEFFETELLER

ATRA AAK# 1-3512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

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/M ²) **	LRD (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
1029-01		12/07/89	12/07/89	PERSONAL AA GATE 7 PREP.	676.2	3.0/100	3.8	.007	.007
1029-02		12/07/89	12/07/89	PERSONAL AA GATE 7 (RENOV.)	679.0	111.5/ 20	710.2	.001	.032
1029-03		12/07/89	12/07/89	PERSONAL AA GATE 8	672.0	1.0/100	1.2	.007	.031

* 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

CLIENT NAME/ADDRESS: DWP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012667
 CLIENT PROJECT#: AMER. AIR. PO 8611

ANALYST SIGNATURE: MICHAEL JANTZ
 MICHAEL JANTZ
 AIHA AREA 1050
 ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.51

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/CC) **	LLC (F/CC) **	RESULT (F/CC)
1081603		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	764.0	18.0/100	22.8	.005	.01
1101891		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	776.2	25.5/100	32.6	.005	.01
1101892		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	758.0	19.5/ 50	259.6	.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 SPECIFIED FOR ARBESTOS.

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.

CLIENT NAME/ADDRESS: OGP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 EST JOB#: 012037
 CLIENT PROJECT#: AMER. AIR. 90 #611

01617

 ANALYST SIGNATURE: M. J. J. J.
 DATE: 11/13/89
 ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 13-0.31

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/CM ²) **	LTG (1/100) ***	RESULT (F/CM ²)
1020301		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	797.2				CLMEX
1022301		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	9.0/100	11.5	.009	.016
1022302		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	576.2	104.0/100	253.7	.008	.174
1024301		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	790.0	4.0/100	5.1	.006	.002
1025901		11/13/89	11/15/89	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.	862.9	12.9/100	15.2	.008	.007
1026901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.5/100	8.3	.005	.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	.055
1030901		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.3	.005	.022
1030902	*	11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	669.4	62.5/100	79.6	.005	.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.	874.3	21.5/100	27.4	.005	.012
1031902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	864.0	43.5/100	55.4	.008	.025

OVERLOAD CODES

CLMEX - 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.
 ESI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/16/89

CLIENT NAME/ADDRESS: OVP SERVICES, INC.
 90 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. RETFF
 EST NO#: 012007
 CLIENT PROJECT: AMER. AIR. PG 0311

ANALYST SIGNATURE: *MELLE JANTZ*

MELLE JANTZ

478A AARL 4080

ANALYTICAL TEST METHOD: NIOSH METHOD 7600

CLIENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.21

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD	FIBER DENSITY (F/CC)	LO (F/CC) ***	RESULT (F/CC)
020001		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				CLMIX
023001		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	578.0	8.9/100	11.5	.003	.003
023002		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/100	253.7	.009	.104
024001		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	760.0	4.5/100	5.1	.003	.003
025001		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	384.0	90.5/100	115.3	.006	.051
025002		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	882.0	12.0/100	15.3	.005	.007
026001		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	752.0	6.5/100	3.3	.006	.004
027001		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	170.4	27.0/100	34.4	.005	.017
027002		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.5	41.3/100	53.2	.009	.025
030001		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.9	.006	.023
030002		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	469.4	52.5/100	73.5	.005	.035
031000		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	592.5	24.0/100	30.6	.007	.017
031001		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.005	.012
031002		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	354.0	43.5/100	55.4	.006	.025

OVERLOAD CODES

CLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

- * SAMPLE RECEIVED WITH TOP PORTION OF 2 PIECE CASSETTE ASSEMBLY DETACHED.
- ** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHEN APPLICABLE.
- *** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7600 IS NOT SPECIFIC FOR ASBESTOS.

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



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
40 DRUMSWICK AVE.

ATTENTION: EDISON, NJ
ELLEN E. REIFF

SSI JOB#: 011882

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

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

ATHA AAR#: 1090

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.50%

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/MM ²) **	LSO (F/CC) ***	RESULT (F/CC)
018901		10/23/89	10/23/89	PERSONAL GATE 10 AA	682.5	81.0/100	103.2	907	0.08
018902		10/23/89	10/23/89	PERSONAL GATE 10 AA	576.0				0.08

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.

REPORT DATE: 10/26/89

 ANALYST SIGNATURE: Paul Hurm

 CLIENT NAME/ADDRESS: DXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011882
 CLIENT PROJECT: B/A-A/A P.O. #527

PAUL HURM

AIHA LAB#: 1512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 16.0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD	FIBER DENSITY (F/M ²)	LOG (F/CC)	RESULT (F/CC)
10068901		10/23/89	10/23/89	PERSONAL GATE 7 AA	367.2	0.5/100	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

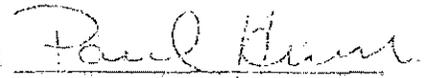
- * SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
- ** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
- *** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

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.

REPORT DATE: 10/24/88

ANALYST SIGNATURE:



PAUL HUME

ATNA ACR: 1512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION 15.0%

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

08817

ATTENTION: ELLEN E. REIFF

SSI JOB#: 011882

CLIENT PROJECT#: B/A-A/A P.O. 1527

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/M ²) **	LRS (F/CC) ***	RESULT (F/CC)
1012901		10/23/89	10/23/89	PERSONAL BLOCKHOUSES	568.6	1.0/100	1.2	.009	.001
1012902		10/23/89	10/23/89	PERSONAL BLOCKHOUSES	382.8	3.0/100	3.8	.010	.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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: *Paul Hurn*

CLIENT NAME/ADDRESS: DXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ELLLEN E. REIFF

ATTENTION:

SSI JOB#: 011801

CLIENT PROJECT: BRIT. & AMER. AIR

00817

PAUL HURN

AIHA AREA: 1512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 15-0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/M ²) **	LO (F/CC) ***	RESULT (F/CC)
19228903		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	380.4	25.0/100	31.8	.013	.032
19268901		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	260.1	10.0/100	12.7	.019	.019
19268902		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	293.5	21.5/100	27.4	.013	.039
0048303		10/12/89	10/13/89	PERSONAL AA GATE 7 (MIKE)	362.4	7.5/100	9.5	.014	.010
0058301		10/12/89	10/13/89	PERSONAL AA GATE 7 (CNET)	468.0	7.0/100	8.9	.010	.007
0058302		10/12/89	10/13/89	PERSONAL AA GATE 7 (CNET)	364.8	5.0/100	6.4	.013	.007
0058303		10/12/89	10/13/89	PERSONAL AA GATE 7 (CNET)	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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

ANALYST SIGNATURE: Gary Lascini
 GARY LASCINI

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011801
 CLIENT PROJECT#: BRIT. & AMER. AIR

AIR# AA# 1833
 ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.24

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/M ²) **	LRD (F/CC) ***	RESULT (F/CC)
		10/12/89	10/12/89						
39218901		10/12/89	10/12/89	PERSONAL AA GATE 10	364.8				VOID 1
39218902		10/12/89	10/12/89	PERSONAL AA GATE 10	357.6	42.0/100	53.5	.014	.050
39218903		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.

SEP 29 1989

REPORT DATE: 9/23/89

CLIENT NAME/ADDRESS: OXP SERVICES, P.O.

40 BRUNSWICK AVE.

EDISON, NJ

ELLEN E. REIFF

08917

ANALYST SIGNATURE:

MERLE JANTZ

MERLE JANTZ

AI-A 4171: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 10.0%

ATTENTION:

SSI JOB#:

011638

CLIENT PROJECT#:

BRITISH/AMERICAN AIR

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE RESTRICTION	FAYTLE VOLUME (LITERS)	FIBERS PER FIELD PP	FIBER DENSITY (5,000) PP	LOW LIMIT PP	STANDARD DEVIATION (%)
1-39150901		9/22/89	9/22/89	A/A GATE 10	365.8	21.0/100	16.8	1.94	1.03
1-39150902		9/22/89	9/22/89	A/A GATE 10	300.4	18.3/100	12.7	1.74	1.04

OVERLOAD CODES

OLMIX - OVER LOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

FIELD CODES

ODOM - FILTER TORN/DAMAGED/DELETED

- * 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 100 D.

(NOTE) ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIED FOR ASBESTOS.

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

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

ATTENTION: ELLEN E. RELIFF

SSI JOB#: 011838

CLIENT PROJECTS: BRITISH/AMERICAN AIR

SEP 29 1989

PROJECT OPERATOR: MERLE JANTZ

MERLE JANTZ

ATPA DATE: 1980

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION: 0.34

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD	FIBER DENSITY (F/CM ²)	LOG (F/CM ²)	COMMENTS
9238901		8/22/89	8/22/89	A/A DATE 10	361.2				DMIX

OVERLOAD CODES

OLMIX - OVERLOAD MIXED FIBROUS AND NON-FIBROUS PARTICULATE

- * SAMPLE RECEIVED WITH TOP PORTION OF 3 PLY CASSIETTE ASSEMBLY DAMAGED.
- ** FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
- *** LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 6.3 FIBERS PER FIELD.

NOTE: ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIED FOR ASSISTED.

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



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 5/10/89

ANALYST SIGNATURE: METZLE JANTZ

METZLE JANTZ

CLIENT NAME/ADDRESS: GYP SERVICES, INC.
80 BROWSWICK AVE.

02817

ATTENTION: ELLEN E. BELFF

ALFA AARE: 1080

SSI JOB#: 011604

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CLIENT PROJECT#: 81-959 AMER. AIRLIN.

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/CM ²)	LAB. (F/CC) ATN.	RESULT (F/CC)
19118901	9/11/89	9/20/89	9/20/89	P.O. 2155 A/A - SKYCHEF/7:30 - 9:30	409.2	152.0/31	419.1	.012	.064
19118903	9/11/89	9/30/89	9/20/89	A/A - SKYCHEF/9:30 - 12:30	430.0	92.0/100	117.2	.011	.100
19128902	9/12/89	9/10/89	9/20/89	A/A - SKYCHEF/9:00 - 11:00	209.5	3.5/100	4.5	018	.008
19138901	9/13/89	9/20/89	9/20/89	A/A - SKYCHEF/7:00 - 10:00	166.2	72.0/100	91.7	.011	.075
19138902	9/13/89	9/20/89	9/20/89	A/A - SKYCHEF/11:00 - 12:00	227.7	45.5/100	59.2	.022	.100
19148901	9/14/89	9/10/89	9/20/89	A/A - SKYCHEF/8:00 - 11:00	396.0	69.0/100	87.5	.012	.087

SEP 29 1989

* 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.

**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).

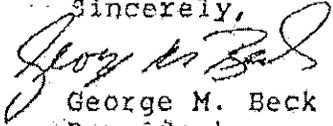
Also sample 121809-03, 121809-04, 12209-05, 12209-06 had no volumes associated with the samples either on the form or on the cassette itself. We have provided fiber count results but could not provide concentrations.

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.

**ENVIRONMENTAL
CONSULTANTS**

Sincerely,



George M. Beck
President



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 9/22/89

SEP 29 1989

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE
EDISON NJ 08817
ATTENTION: ELLEN E. REIFF
PHONE: 016380
CLIENT PROJECT: BRITISH/AMERICAN AIR

ANALYST SIGNATURE: MERLE JANTZ
MERLE JANTZ
ADHA AAK# 1080
ANALYTICAL TEST METHOD: NIOSH METHOD 7400
CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.30

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)
8901		9/22/89	9/22/89	A/A GATE 10	361.2				CM MIX

OVERLOAD CODES:

CM MIX 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
CST IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 09817
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011801
 CLIENT PROJECT#: BRIT. & AMER. AIR

ANALYST SIGNATURE: *Gary LaDini*
 GARY LADINI
 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/CM ²)	LRQ (F/CC)	RESULT (F/CC)
09218901		10/12/89	10/12/89	PERSONAL AA GATE 10	364.8				VOID
09218902		10/12/89	10/12/89	PERSONAL AA GATE 10	357.6	42.0/100	59.5	.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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/13/89

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011801
 CLIENT PROJECT#: BRIT. & AMER. AIR

06817

ANALYST SIGNATURE:

Paul Hum

PAUL HUM

10/13/89

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/CM ²) **	LOG (F/CC) ***	RESULT (F/CC)
09228903		10/12/89	10/13/89	PERSONAL AA GATE 10 (GUY)	320.4	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 (CRET)	468.0	7.0/100	8.9	.010	.007
10058902		10/12/89	10/13/89	PERSONAL AA GATE (CRET)	364.8	5.0/100	6.4	.013	.007
10058903		10/12/89	10/13/89	PERSONAL AA GATE 7 (CRET)	358.4	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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

CLIENT NAME/ADDRESS: DXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 011882
 CLIENT PROJECT#: B/A-A/A P.O. 4527

08817

ANALYST SIGNATURE:

Paul Huxm

PAUL HUXM

ATHA AAR# 1512

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/M ²) **	L10 (F/CC) **	RESULT (F/CC)
10068901		10/23/89	10/23/89	PERSONAL GATE 7 AA	367.2	2.5/100	10.6	.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.



ENVIRONMENTAL
CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ
ATTENTION: ELLEN E. REIFF
SSI JOB#: 011882
CLIENT PROJECT#: B/A-A/A 14359/14559

09817

ANALYST SIGNATURE: HERLE JANTZ

HERLE JANTZ

ADINA 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/M ²) **	LQO (F/CC) ***	RESULT (F/CC)
1012301		10/23/89	10/23/89	PERSONAL GATE 10 AA	477.6	11.0/100	14.0	.010	.011
1012802		10/23/89	10/23/89	PERSONAL GATE 10 AA	278.1	33.5/100	42.7	.018	.055
1012803	*	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	2.0/100	3.8	.007	.002
1016801		10/23/89	10/23/89	PERSONAL GATE 10 AA	495.0	103.0/ 78	168.3	.010	.131
1016802		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	.002	.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	803.0	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.



ENVIRONMENTAL
CONSULTANTS

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

ANALYST SIGNATURE: Paul Hurm

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ
ATTENTION: ELLEN E. REIFF
SSI JOB#: 011882
CLIENT PROJECT#: B/A-A/A P.O. #527

08817

PAUL HURM

ATHA AAGE: 1512

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/M ²) **	LRO (F/CC) ***	RESULT (F/CC)
0058901		10/23/89	10/23/89	PERSONAL GATE 7 AA	387.2	8.5/100	10.8	.013	.011
0058903		10/23/89	10/23/89	PERSONAL GATE 7 AA	361.2	1.0/100	1.3	.014	.001
0010902		10/23/89	10/23/89	PERSONAL AA GATE 7	276.1	1.0/100	1.3	.018	.002
0010903		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.

REPORT DATE: 10/24/89

 CLIENT NAME/ADDRESS: DXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF

08817

EST JOB#: 011082

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

ANALYST SIGNATURE:



MERLE JANTZ

AIHA AGES: 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/MM ²) **	LTD (F/CC) ***	RESULT (F/CC)
112301		10/23/89	10/23/89	PERSONAL GATE 10 AA	477.0	11.0/100	14.0	.010	.011
112302		10/23/89	10/23/89	PERSONAL GATE 10 AA	278.1	33.5/100	42.7	.018	.055
112303		10/23/89	10/23/89	PERSONAL GATE 10 AA	361.2	4.0/100	5.1	.014	.005
113301		10/23/89	10/23/89	PERSONAL GATE 10 AA	770.4	86.0/100	122.3	.006	.061
113302		10/23/89	10/23/89	PERSONAL GATE 10 AA	663.6	3.0/100	3.8	.007	.002
116601		10/23/89	10/23/89	PERSONAL GATE 10 AA	495.0	103.0/ 7E	168.3	.010	.131
116602		10/23/89	10/23/89	PERSONAL GATE 10 AA	481.5	101.0/ 31	415.0	.010	.332
116603		10/23/89	10/23/89	PERSONAL GATE 10 AA	379.2	4.5/100	5.7	.013	.005
117901		10/23/89	10/23/89	PERSONAL SHAFTWAY	770.4	34.0/100	43.3	.006	.022
117901		10/23/89	10/23/89	PERSONAL GATE 10 AA	667.8	101.0/ 46	279.7	.007	.161
117902		10/23/89	10/23/89	PERSONAL GATE 10 AA	372.0	4.0/100	5.1	.013	.005
117903		10/23/89	10/23/89	PERSONAL GATE 10 AA	903.0	11.5/100	14.6	.005	.005

* 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.
 GSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 10/24/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ
ATTENTION: ELLEN E. REIFF
SSI JOB#: 011882
CLIENT PROJECT#: B/A-A/A 14359/14559

08817

ANALYST SIGNATURE: Merle Jantz

MERLE JANTZ

AIR# AAR# 1090

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 6.3%

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)
1018901		10/23/89	10/23/89	PERSONAL GATE 10 AA	682.5	81.0/100	103.2	.097	.058
1018902		10/23/89	10/23/89	PERSONAL GATE 10 AA	576.0				.058

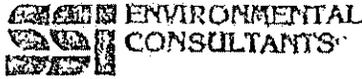
OVERLOAD CODES

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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/13/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 TEL (908): 812067
 CLIENT PROJECT#: AMER. AIR. PO #611

ANALYST SIGNATURE: HERLE JANTZ
 HERLE JANTZ
 AIMA AAGE: 1980
 ANALYTICAL TEST METHOD: NIOSH METHOD 7400
 CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.31

IDENT SAMPLE ID	GATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD #1	FIBER DENSITY (F/CC) #2	LRV (F/CC) #3	RESULT (F/CC)
128901		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL AREA	787.2				CLNRY
128901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	576.0	9.6/100	11.5	.009	.009
128902		11/13/89	11/13/89	PERSONAL AA GATE 10 REMOVAL	574.2	104.0/ 51	258.7	.009	.174
128901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	780.0	4.0/100	5.1	.005	.005
128901		11/13/89	11/13/89	PERSONAL AA GATE 10 FINE CLEAN	664.0	90.5/100	115.9	.006	.051
128902	*	11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	882.9	12.0/100	15.2	.005	.007
128901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	792.0	6.3/100	8.3	.005	.004
127901		11/13/89	11/13/89	PERSONAL AA GATE 7 PREP.	770.4	27.0/100	34.4	.005	.017
127902	*	11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	570.6	41.0/100	52.2	.009	.035
130901		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	765.6	34.5/100	43.8	.005	.022
130902	*	11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	869.4	62.5/100	78.6	.005	.035
130903		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	692.5	24.0/100	30.6	.007	.017
131601		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	874.8	21.5/100	27.4	.005	.012
131902		11/13/89	11/13/89	PERSONAL AA GATE 7 REMOVAL	664.0	43.5/100	55.2	.005	.025

OVERLOAD CODES

GLMIX - 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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 11/14/89

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SST JOB#: 012067
 CLIENT PROJECT#: AMER. AIR. PO #611

089:7

ANALYST SIGNATURE: MERLE JANTZ

MERLE JANTZ

AIR# AA# 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) **	LRQ (F/CC) ***	RESULT (F/CC)
1091903		11/13/89	11/13/89	PERSONAL AA GATE 8 PREP.	784.3	18.0/100	22.9	.006	.011
1101801		11/13/89	11/13/89	PERSONAL AA GATE 4 PREP.	775.2	25.5/100	32.6	.006	.018
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.

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ 08817
 ATTENTION: ELLEN E. REIFF
 TELEPHONE: 012255
 CLIENT PROJECT#: BRITISH AIR/AMERICAN

ANALYST SIGNATURE: *Merle Jantz*
 MERLE JANTZ

AIR ACT: 1080

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/100 ²)	LRQ (F/CC)	RESULT (F/CC)
099-04		12/07/89	12/07/89	PERSONAL AA GATE 8	553.0	70.0/100	88.2	.008	.008
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	16.5	.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.

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.

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/03/89

ANALYST SIGNATURE:

Merle Janitz
MERLE JANITZ

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
40 BRUNSWICK AVE,
EDISON, NJ
ATTENTION: ELLEN E. REIFF

08817

ATHA ANAL: 1080

SSI JOB#: 012255

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CLIENT PROJECT#: BRITISH AIR/AMERICAN

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/CM ²) **	LRG (F/CC) ***	RESULT (F/CC)
1589-02		12/07/89	12/07/89	PERSONAL AA GATE 7	385.2	11.5/100	14.6	.013	.015
139-02		12/07/89	12/07/89	PERSONAL AA GATE 7	585.0	100.0/75	133.3	.008	.107
139-03		12/07/89	12/07/89	PERSONAL AA GATE 4	775.2				CAMIX
169-01		12/07/89	12/07/89	PERSONAL AA GATE 8	574.2	9.0/100	11.5	.009	.008
169-02		12/07/89	12/07/89	PERSONAL AA GATE 7	568.8	10.0/100	12.7	.008	.008
179-01		12/07/89	12/07/89	PERSONAL AA GATE 7	368.4	12.0/100	15.3	.013	.015
179-02		12/07/89	12/07/89	PERSONAL AA GATE 8	364.0	21.5/100	27.4	.013	.027

OVERLOAD CODES

AMTX - 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.

PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/08/89

CLIENT NAME/ADDRESS: OXP SERVICES, INC.
40 BRUNSWICK AVE.
EDISON, NJ
ATTENTION: ELLEN E. REIFF
CITY: 08817
TELEPHONE: 012255
PROJECT: BRITISH AIR/AMERICAN

ANALYST SIGNATURE: *Merle Jantz*

MERLE JANTZ

ATHA AAR# 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD	FIBER DENSITY (F/MM ²)	LRQ (F/CC)	RESULT (F/CC)
59-03		12/07/89	12/08/89	PERSONAL AA GATE 8	572.4	89.0/100	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
89-02		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

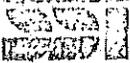
FOOTNOTES

FOOTNOTE 1 - UNABLE TO IDENTIFY SPECIFIC SAMPLE ID OR DUPLICATE/CROSS LABELING.

FOOTNOTE 2 - SAMPLE RECEIVED WITH TOP PORTION OF 3 PIECE CASSETTE ASSEMBLY DETACHED.
FIBERS PER FIELD AND FIBER DENSITY REFLECT SUBTRACTION OF BLANK VALUE WHERE APPLICABLE.
FOOTNOTE 3 - LOWER LIMIT OF RELIABLE QUANTIFICATION, BASED ON MINIMUM OF 0.1 FIBERS PER FIELD.

FOOTNOTE 4 - ANALYTICAL TEST METHOD NIOSH 7400 IS NOT SPECIFIC FOR ASBESTOS.

FOOTNOTE 5 - REPORTED SAMPLES WERE COLLECTED BY THE CLIENT OR AN AGENT OF THE CLIENT.
SSI IS NOT RESPONSIBLE FOR THE MANNER OR METHOD OF COLLECTION.



CLIENT NAME/ADDRESS: DXP SERVICES, INC.
40 BRINSWICK AVE.
EDISON, NJ
ELLEN E. REIFF
08817
PHONE: 012255
CLIENT PROJECT: BRITISH AIR/AMERICAN

ANALYST SIGNATURE:

Melinda Teffeteller
MELINDA TEFFETELLER

ASMA AAR# 1512

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.33

SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD	FIBER DENSITY (F/CM ²)	LRQ (F/CC)	RESULT (F/CC)
09-01		12/07/89	12/07/89	PERSONAL AA GATE 7	674.1	2.5/100	12.1	.007	.007
99-01									
23-01		12/07/89	12/07/89	PERSONAL AA GATE 4 PREP.	576.2	3.0/100	3.0	.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
59-01		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.

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.



PHASE CONTRAST MICROSCOPY REPORT

REPORT DATE: 12/14/89

ANALYST SIGNATURE: *Merle Jantz*
 MERLE JANTZ

CLIENT NAME/ADDRESS: DKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EDISON, NJ
 ATTENTION: ELLEN E. REIFF
 SSI JOB#: 012327
 CLIENT PROJECT: B & A AIR #156

08817

AJHA AREA: 1080

ANALYTICAL TEST METHOD: NIOSH METHOD 7400

CURRENT LABORATORY RELATIVE STANDARD DEVIATION IS 0.32

CLIENT SAMPLE ID	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	SAMPLE VOLUME (LITERS)	FIBERS PER FIELD **	FIBER DENSITY (F/CM ²) **	LRO (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.



Bulk
Sample from VAH-10 IRM in
1/16/90

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 1/17/90

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) BY 753, SUBPT. F APP. A, PAGES 293-299.

REPORT TO: EKP SERVICES, INC.
 40 BRUNSWICK AVE.
 EATON, NJ
 ATTENTION: ELLEN E. REIFF

02317

ANALYST SIGNATURE: Paul Murn
 PAUL MURN

SSI JOB NUMBER:	2570		
DATE RECEIVED:	1/17/90		
DATE ANALYZED:	1/17/90		
CLIENT SAMPLE ID:			
PROJECT ID:			
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.

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	AND PLACARD #	BUDGETED
PA	215.098	JFK	CHRP			AMERICAN AIRLINES, UNDERGROUND PIPING	ADVATEX			/ /	COMPLETED (PAAS75)	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	57		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	57		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			AMERICAN AIRLINES - WEST PUBLIC RESTROOMS	NATIONAL ABATEMENT CORPORATION			03/25/92	COMPLETED	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	AND PLACARD #	BUDGETED
PA	215.521		JFK	57		AMERICAN AIRLINES - CEILING ACCESS OPENINGS	ODDEN 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		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	02/03/92	JFK-093-92	N
I		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.



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,

A handwritten signature in dark ink, appearing to read "Joe Maculaitis", is written over the typed name.

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

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

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Four (4)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
DATE SAMPLED: 05/11/93
DATE RECEIVED IN LAB: 05/14/93
DATE ANALYZED: 05/15/93
SAMPLING SITE: JFK Airport, Building 57, Phase III, Work Area 10D - Chase

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(2)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(6)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 OUT OF N.Y.S • FAX NO. 516-334-7721
NEW YORK • BOSTON • RICHMOND

NYLAG

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)	(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.

(16)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

303 11/2/93

P 719237

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

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

SAMPLING SITE: JFK Airport, American Airlines, Phase 2, A.C. Pit #16

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(17)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NY 100

P 719238

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)	(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.

(19)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

03/31/93

P 719240

Laboratory Testing Services

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

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)	(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 BARRIER	<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.

(29)

Laboratory Testing Services

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

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)	(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

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.

(30)

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

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

SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Area 10D

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(31)

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:

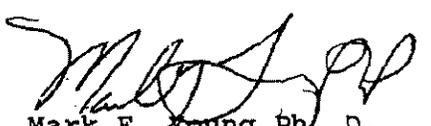
SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
01	93A26026	04089334201 WASTE-OUT, ADJACENT TO STAIRCASE, ADMIRAL CLUB	<12.7	<0.003
02	93A26027	04089334202 WASTE-OUT, ADJACENT TO WORK AREA 10D	<12.7	<0.003
03	93A26028	04089334203 FIELD BLANK #1	< LOD	-----
04	93A26029	04089334204 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.

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.

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

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

SAMPLING SITE: JFK Airport, Building 57, Phase #III, Work Areas 10D & 10C

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	<0.002
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	<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.

(26)

P 719142

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(27)

P 719143

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

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

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

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

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

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Sixteen (16)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10D & 10C

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	<0.002
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)	<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.

(51)

P 719145

Laboratory Testing Services

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.

(52)

P 719146

Laboratory Testing Services

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

v1

NVLAP ACCRED. # 1332

NYS ELAP APPROVAL # 10837

AIHA ACCRED. # 333

(53)

P 719147

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.

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)	(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	-- F --

< = 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.

(31)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAB

P 719155

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)	(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.

(33)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NV(LA)P

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
DATE SAMPLED: 03/11/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/15/93
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10A

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(35)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVIAQ

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

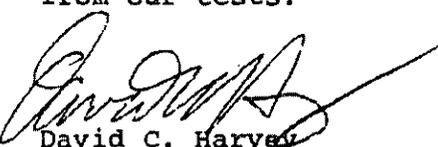
RESULTS:

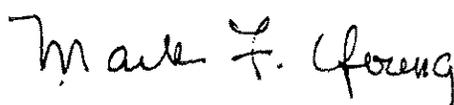
SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
01	93A17982	03129338157-CLEAN ROOM	<12.7	<0.002
02	93A17983	03129338158-OUTSIDE CRITICAL BARRIERS	<12.7	<0.002
03	93A17984	03129338159-EXHAUST	<12.7	<0.003
04	93A17985	03129338160-ADJACENT AREA	----	----
05	93A17986	03129338161-FIELD 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. *et al*
 Vice President
 Chief Operating Officer

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.

(38)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
 NEW YORK • BOSTON • RICHMOND

NVLAP

P 719158

Laboratory Testing Services

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

PROJECT NO.: 6766(B1)
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: 03/15/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	<12.7	<0.002
05	93A19013	03159338505 FIELD BLANK #1	< LOD	-----
06	93A19014	03159338506 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.

(35)

Laboratory Testing Services

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

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)	(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.

(36)

Laboratory Testing Services

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

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
DATE SAMPLED: 03/17/93
DATE RECEIVED IN LAB: 03/18/93
DATE ANALYZED: 03/18/93
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10A

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(37)

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
NEW YORK • BOSTON • RICHMOND

NFLA

P 719161

Laboratory Testing Services

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.

(38)

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)	(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.

(26)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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.

(27)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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.

(28)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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.

(30)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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	03099347904-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.

(32)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
 NEW YORK • BOSTON • RICHMOND

NVLAB

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
DATE SAMPLED: 03/10/93
DATE RECEIVED IN LAB: 03/10/93
DATE ANALYZED: 03/11/93
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(34)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAD

P 719168

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	
			($\mu\text{g}/\text{mm}^2$)	($\mu\text{g}/\text{cc}^3$)
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-BELOW 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

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.

(36)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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

FILTER SIZE: 25mm
NO. OF SAMPLES SUBMITTED: Twelve (12)
ANALYTICAL METHOD: NIOSH Method 7400
SAMPLING AGENCY: H+GCL
DATE SAMPLED: 03/12/93
DATE RECEIVED IN LAB: 03/14/93
DATE ANALYZED: 03/17/93
SAMPLING SITE: JFK Airport, Building 57, Phase 3, Work Area 10B

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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

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.

(37)

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
DATE SAMPLED: 03/24/93
DATE RECEIVED IN LAB: 03/26/93
DATE ANALYZED: 03/26/93
SAMPLING SITE: JFK Airport, Building 57, Phase #3, Work Area 10C

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(40)

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)	(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

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.

(29)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
 NEW YORK • BOSTON • RICHMOND

NVLAP

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)	(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.

(39)

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)	(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.

(44)

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)	(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.

(43)

Laboratory Testing Services

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

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)	(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.

(45)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
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.

(46)

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)	(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.

(47)

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
NEW YORK • BOSTON • RICHMOND

OS/AS

P 719178

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
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.

(48)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 OUT OF N.Y.S • FAX NO. 516-334-7
NEW YORK • BOSTON • RICHMOND

NY/AG

P 719179

Laboratory Testing Services

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

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)	(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.

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(50)

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
NEW YORK • BOSTON • RICHMOND

NYLAS

P 719181

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.



261 Madison Avenue • New York, NY 10017
(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
Project Manager

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

Job file 7021.46

RE: 7021.46

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

07/18/1992 23132 7186561182

GOA INC

PAGE 03

58114

**METHOD 7400
PCM FIBER COUNT**

EMSL LABORATORY # 8527459-8527468
Branch LABORATORY #

JOB ID: 792138/Amion/Amion_H(1)1992

CLIENT H&GCL New York

PREPARED BY: AW

Blank	Sample ID	Location	Sample Date	#Fibers	#Fields	Volume (L)	Fibers/ML E	Fibers/CC C	OVER LOADED
	032294452-01	Environmental Air Sample Taken Inside Work Area	07/22/94	4	100	1000.00	5.10	<0.005	
	032294452-02	Environmental Air Sample Taken Inside Work Area	07/22/94	3	100	1000.00	3.52	<0.005	
	032294452-03	Environmental Air Sample Taken Inside Work Area	07/22/94	4	100	1000.00	5.10	<0.005	
	032294452-04	Environmental Air Sample Taken Inside Work Area	07/22/94	12	100	1000.00	15.29	<0.005	
	032294452-05	Environmental Air Sample Taken Inside Work Area	07/22/94	7	100	1000.00	8.92	<0.005	
	032294452-06	Environmental Air Sample Taken Outside Work Area	07/22/94	5	100	1000.00	6.37	<0.005	
	032294452-07	Environmental Air Sample Taken Outside Work Area	07/22/94	4	100	1000.00	5.10	<0.005	
	032294452-08	Environmental Air Sample Taken Outside Work Area	07/22/94	3	100	1000.00	3.52	<0.005	
	032294452-09	Environmental Air Sample Taken Outside Work Area	07/22/94	4	100	1000.00	5.10	<0.005	
	032294452-10	Environmental Air Sample Taken Outside Work Area	07/22/94	4	100	1000.00	5.10	<0.005	

LAB Number	Sample ID	#Fibers	#Fields	Fibers/mm ²	Analysis
00					
00					

F-8 C- E(1.385)
0.0788 x 8 Fibers
where F = # Fibers counted in Sample

QC CHECKED
Analysis Date: 07/22/94
Scope: 425

P 722269

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.

261 Madison Avenue • New York, NY 10016
(212) 963-8510 • FAX: (212) 963-8735



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,

A handwritten signature in cursive script that reads "John E. Kurre".

John E. Kurre
Project Manager

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

Job file 7021.46

JEP/AAJ

P 722276

001048

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

66/14/1992 08:56

7105561182

GOA IND

PAGE 02

METHOD 7400

EMSL LABORATORY # 9514871-33 MEMBER COUNT

Branch LABORATORY #

JOB I.D. 7025.66NY16084/PMIA Air
Airlines Bldg. 69 (02)

CLIENT H&GCL New York

PREPARED BY:

Sample ID	Location	Sample Date	#Fibers	#Fibers	Volume (liters)	Fibers/CM ³ E	Fibers/CC-C	OVER LOADED
022294452-01	Environmental Air Samples Taken Outside Work Area	2-22-94	15	100	1000.00	22.93	<0.005	
022294452-02	Environmental Air Samples Taken Outside Work Area	2-22-94	9	100	1000.00	11.46	<0.005	
022294452-03	Environmental Air Samples Taken Outside Work Area	2-22-94	4	100	1000.00	5.10	<0.005	
022294452-04	Environmental Air Samples Taken Outside Work Area	2-22-94	2	100	1000.00	2.55	<0.005	
022294452-05	Environmental Air Samples Taken Outside Work Area	2-22-94	9	100	1000.00	11.46	<0.005	
022294452-06	Environmental Air Samples Taken Inside Work Area	2-22-94	58	100	1046.00	73.88	0.015	
022294452-07	Environmental Air Samples Taken Inside Work Area	2-22-94	13	100	1046.00	16.56	<0.005	
022294452-08	Environmental Air Samples Taken Inside Work Area	2-22-94	9	100	1046.00	11.46	<0.005	
022294452-09	Environmental Air Samples Taken Inside Work Area	2-22-94	51	100	1046.00	39.49	0.0082	
022294452-10	Environmental Air Samples Taken Inside Work Area	2-22-94	15	100	1046.00	22.93	<0.005	

Lab Number	Sample ID	#Fibers #Fibers	Fibers mm ²	Analyst

F-2 C- E(385)
 M- # Fibers
 P- # Fibers counted in Sample
 B- # Fibers counted in Blank

QC Check
 Analyst RCJ 2/22/97
 Scope M2
 Computer

001030

SAME DAY

H&GCL ASBESTOS AIR SAMPLING RECORD				DATE: 2/22/94		ACCOUNTABILITY RECORD PAGE 1 OF 1	
BLDG. & PROJECT NAME: JFK IA AMERICAN AIRLINE Bldg 56 (11)				REQUESTED COMPLETION DATE: 2/23/94		JOB NO: 702194 BATCH NO: 8778069	
CLIENT NAME: AMERICAN AIRLINES				SAMPLER NAME: W. McNEILL		SIGNATURE: <i>[Signature]</i>	
DATE: 2/22/94				TIME COMPLETED:		DELIVERED TO LAB BY: FLD 157 (M)	
LAB NAME: FLD 157				RECEIVED BY:		DATE: _____ TIME: _____	
ANALYST: _____ SCOPE #: _____				DATE COMPLETED: _____ TIME: _____		ANALYSIS METHOD: _____	
APPROVAL SIGNATURE (PROJECT MANAGER): _____							

PUMP ID NO	FLOW METER ID NO	AIR FLOWRATE (LFM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS PER CC	EFFECTIVE FILTER AREA - MM ² FIELD AREA -		FIBERS PER CC	UPPER CONFIDENCE LIMIT
		START	STOP	AVERAGE	START	STOP	TOTAL			MM ²	MM ²		
1	02290	14.2	14.2	14.2	1200	1420	140	1582					
2		14.2	14.2	14.2	1200	1420	140	1582					
3		14.2	14.2	14.2	1200	1420	140	1582					
4		14.2	14.2	14.2	1200	1420	140	1582					
5		14.2	14.2	14.2	1200	1420	140	1582					
6		14.2	14.2	14.2	1236	1446	130	1546					
7		14.2	14.2	14.2	1237	1447	130	1546					
8		14.2	14.2	14.2	1238	1448	130	1546					
9		14.2	14.2	14.2	1235	1447	130	1546					
10		14.2	14.2	14.2	1240	1450	130	1546					
		FIELD BLANK											
		FIELD BLANK											

SPECIAL COMMENT: Please Fax Results To H&GCL (212) 983-8755 or (718) 656-1102 *W. McNeill*

* SAMPLE TYPE CODES		** WORK AREA ACTIVITY CODES	
PCM - PHASE CONTRAST MICROSCOPY	8 - OUTSIDE WORK AREA	1 - PREPARATION BACKGROUND	7 - WORK AREA CLEANANCE
TEM - TRANSMISSION ELECTRON MICROSCOPY	9 - INSIDE WORK AREA	2 - PREPARATION OF WORK AREA	8 - MAINTENANCE ACTIVITY
SEM - SCANNING ELECTRON MICROSCOPY	7 - AIR QUALITY/ENVIRONMENTAL	3 - ABANDONED REMOVAL WORK	9 - ACME REPAIR ACTIVITY
A - PERSONAL EXPOSURE SAMPLE	8 - NEPA EXHAUST DISCHARGE	4 - CLEAN UP OF WORK AREA	10 - ACME INCAPACITATION OR COLLEAPSE
S - WORK AREA CLEARANCE	9 - DECONTAMINATION FACILITY	5 - PLATE REMOVAL	11 - CLEANING OR DECONTAMINATION
C - PREPARATION BACKGROUND	1 - BLANK SAMPLE	6 - GLOVE BAR REMOVAL WORK	12 - NOT APPLICABLE

CLIENT BILLING INSTRUCTIONS: 13 SAMPLES @ \$ 18 = \$

NOTICE: If the image below is less than 100% zoomed, the quality of the document being scanned is due to the poor quality of the document being scanned.

PAGE 04

GCA INC

7186561102

08:56

86/14/1992

P 722281

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.



DETERMINATION OF ASBESTOS IN RESILIENT FLOOR TILE*

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formulations 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 it, 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.

75 URBAN AVE., PO BOX 121, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0026 • FAX NO. 516-334-7720

P 722283

001053

P. 2012.01

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET (of 1)

BLDG. NAME & ADDRESS: SPR Ady 56 Phase III W/A II

SAMPLE I.D. NO.	TYPE	TIME	AREA OR ROOM DESCRIPTION	HRS	MIN	REQUESTED COMPLETION DATE	
						JOB NO. <u>752176</u>	BATCH NO. <u>NY1458</u>
1	OS03758534	B	1	Caoling material between columns 2 & 3			CLIENT NAME: <u>Aradco Super</u>
2	L	B	1	Caoling material between the columns 2 & 3			SAMPLE NAME: <u>Caoling</u>
3		B	1	Caoling material between the columns 2 & 3			SIGNATURE: <u>[Signature]</u>
4							DATE: <u>10/17</u> TIME COMPLETED: <u>6:00</u>
5							DELIVERED TO LAB BY:
6							LAB NAME:
7							ADDRESS:
8							RECEIVED BY: <u>Jordan C. Alcey</u>
9							DATE: <u>10/17</u> TIME: <u>2:00</u> INITIALS: <u>[Signature]</u>
10							ANALYZED BY:
11							LAB QC APPROVAL:
12							PROJECT MANAGER'S APPROVAL:
13							

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.G. (C) 21933715 & 78656402 ASAP. Thanks

*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 SDS - SURFACE DUST - GRAB SAMPLE	CH - CHRYSOTILE AM - AMOSITE CR - CROCIDOLITE AC - ACTINOLITE AN - ANTHOPHYLLITE TR - TRENOLITE	FG - FIBERGLASS MW - MINERAL WOOL CL - CELLULOSE SY - SYNTHETIC FIBER HA - HAIR NF - NON-FIBEROUS MATERIAL	DT - OTHER SAMPLER BUT ANALYST OUTSIDE LAB AUTOCORRECTION

NOTICE: It is the responsibility of the client to ensure the accuracy of the data in the past quality of the document being reviewed.

PAGE 02

333-200-0015 3-1-1 1997-03/05

P 7222284

000000

ASBESTOS BULK SAMPLE DATA FORM						ACCOUNTABILITY RECORD SHEET	
BLDG. NAME & ADDRESS: AA Bldg. 5C 14C - AMESBOS Bldg. 5C						REQUESTED COMPLETION DATE: 12/21/92	
SAMPLE I.D. NO. TYPE* AREA OR ROOM DESCRIPTION						JOB NO. 1021-46 BATCH NO. 137	
1	21872-77-01	D	A	WHITE RENOVATION EQUIP. ROOM		CLIENT NAME: <i>Applied Sciences</i>	
2	02	D	A	"		SAMPLER'S NAME: <i>J. [unclear]</i>	
3	03	D	A	BLACK " "		SIGNATURE: <i>[Signature]</i>	
4						DATE: <i>12/21/92</i> TIME COMPLETED: <i>5:30 PM</i>	
5						DELIVERED TO LAB BY: <i>ED [unclear]</i>	
6						LAB NAME: <i>HOBI</i>	
7						ADDRESS:	
8						RECEIVED BY: <i>[Signature]</i>	
9						DATE: <i>12/21/92</i> INITIALS: <i>[Initials]</i>	
10						ANALYZED BY: <i>[Signature]</i> TRACED BY: <i>[Signature]</i>	
11						LAB QC APPROVAL: <i>[Signature]</i>	
12						PROJECT MANAGER'S APPROVAL:	
13							

NOTICE: If this sample bagging is less clear than this model, it is due to the poor quality of the document bagging process.
 TEC-28 - 92-15122 IDH/RT/ETICS LAB TEL: (01617) 583-0662

ANALYTICAL LABORATORY RESULTS																
ASBESTOS CONCENTRATIONS	CONCENTRATIONS OF OTHER COMPONENTS															
LAB ID. NO.	CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT	Color	COMMENTS	Method
1	548.5	20.2										99.8		TN		SPC
2	1.8	16										5.1				
3	1.7	13.8										56.2		BL/TN		
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																

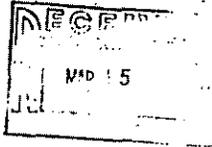
ADDITIONAL COMMENTS & NOTES: *Paul Greenough will provide batch # and number*

SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT'S
B - BULK MATERIAL D - DEBRIS SAMPLE SDT - SURFACE DUST - TAPE SAMPLE MCV - SURFACE DUST - VACUUM SAMPLE GDT - SURFACE DUST - GRAB SAMPLE	CH - CHRYSOTILE AM - AMOSITE CR - CROCIDOLITE AN - ACTINOLITE TR - TROILITE TW - TWINNINGITE	FG - FIBERGLASS MW - MINERAL WOOL CL - CELLULOSE SY - SYNTHETIC FIBER HA - HAIR NF - NON-FIBEROUS MATERIAL OT - OTHER	[Blank]

P 722286

890406

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.



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
David C. Harvey
President

Mark F. Young
Mark F. Young, Ph.D. *PH*
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 - Opacums, M - Magnesia, V - Vinyl |
| 4 = Other (Specify) | VERM - Vermiculite, AH - Animal Hair, T - Tar |

*Non-triable 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 lots 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.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



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.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



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.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



**DETERMINATION OF ASBESTOS IN
RESILIENT FLOOR TILE***

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formulations 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 THF 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.
75 URBAN AVE. PO BOX 1021, WESTBURY, N.Y. 11590-0129 • (516) 334-7770 • (800) 433-0006 • FAX NO. 516-334-7720

9
P
O
B
O
O

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being scanned.



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 Gehegan

PROJECT NO.: 6766(C)
LAB. NO.: 93-06766(P-03)
DATE: 01/10/93
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 54, P & O 754

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, N - Nephrite, 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.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.



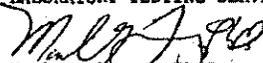
LAB. NO.: 93-06766(P-03)

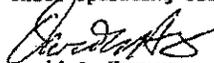
CERTIFICATION AND SIGNATURES:

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

(4)

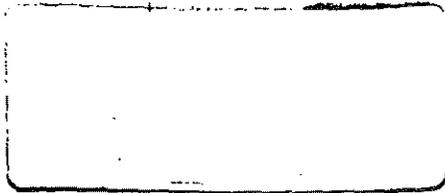
Laboratory Testing Services, Inc. is accredited by the USEPA National Voluntary Laboratory Approval Program (NVLAP). Neither NVLAP nor the USEPA claim to endorse the validity or accuracy of this report.
Report on sample by client applies only to sample. Report on samples by us applies only to samples.
Information contained herein is not to be used for reproduction or distribution by special permission.
Samples retained for thirty days maximum after date of report unless specifically stated 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.

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7725

P 722297

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



PLEASE: If the image below is not clear from this notice, please call us to the best quality of the document being tested.

© 1998

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.

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
NEW YORK • BOSTON • RICHMOND

P 722299

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

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

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.

(1)

P 722300

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being filmed.

LABOR.

RESULTS:
 SAMPLE NO.

050493385
 46 93
 47 93
 48 93
 49 93

Asbestos C
 ND = None

ASBESTOS TYPE:
 1 = Amosite
 2 = Chrysotile
 3 = Crocidolite
 4 = Other (Specify)

*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.

75 URBAN AVE., PO B

001070

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being scanned.



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: | OTHER COMPONENTS: |
| 1 - Amosite | FG - Fibrous Glass, CELL - Cellulose, |
| 2 - Chrysotile | SYN - Synthetics, CT - Cement, P - Plaster |
| 3 - Crocidolite | B - Binder, O - Opacure, M - Magnesia, V - Vinyl |
| 4 - Other (Specify) | VERM - Vermiculite, AN - 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/600/4-82-020.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



LAB. NO.: 93-06766(P-11)

APPENDIX A
CHAIN OF CUSTODY RECORDS

P 722304

W
V
I
Y
U
S

U U U U U U

sliders P-23A 2B

ASBESTOS BULK SAMPLE DATA FORM				ACCOUNTABILITY RECORD SHEET <u>1</u> OF <u>1</u>	
BLDG. NAME & ADDRESS: <u>SFK Bldg 5B - Proposed Employee Cafeteria</u>				REQUESTED COMPLETION DATE: _____	
SAMPLE I.D. NO.	TYPE	TUBING	AREA OR ROOM DESCRIPTION	JOB NO. <u>7021196</u>	BATCH NO. <u>N514502</u>
1 <u>050423385 40</u>	<u>73</u>	<u>1</u>	<u>All wall Pipe insulation; existing Sealing area</u>	CLIENT NAME: <u>American Airlines</u>	
2 <u>41</u>				SAMPLER'S NAME: <u>S. M. Smith</u>	
3 <u>42</u>			<u>Pipe fitting insulation; existing Paint</u>	SIGNATURE: <u>[Signature]</u>	
4 <u>43</u>				DATE: <u>5/1/93</u>	TIME COMPLETED: <u>1600</u>
5 <u>44</u>			<u>9x9" Tan Floor tile</u>	DELIVERED TO LAB BY: _____	
6 <u>45</u>				LAB NAME: _____	
7 <u>46</u>			<u>Marked for TAN Floor tile</u>	ADDRESS: _____	
8 <u>47</u>				RECEIVED BY: <u>W. Lacey</u>	
9 <u>48</u>			<u>2x2 White Gypsum tile; Existing Metal Deck Area</u>	DATE: <u>5/5/93</u>	TIME: <u>0900</u> INITIALS: <u>[Initials]</u>
10 <u>49</u>			<u>Existing Sealing Area</u>	ANALYZED BY: _____	TIME: _____
11				LAB QC APPROVAL: _____	
12			<u>* Pipes for Radiators (1")</u>	PROJECT MANAGER'S APPROVAL: _____	
13					

NOTICE: If the sample label is less clear than this notice, it is due to the poor quality of the document being printed.

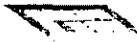
ANALYTICAL LABORATORY RESULTS														
LAB ID. NO.	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS						COMMENTS	
	CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF		OT
1														
2														
3														
4														
5														
6														
7														
8											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

ADDITIONAL COMMENTS & NOTES: PLM Anderson's phone - Fax number to 2129838795

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 SD/C - 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	<table border="1"> <tr> <th>NO. SAMPLES</th> <th>RATE</th> <th>SUBTOTAL</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> OUTSIDE LAB AUTHORIZATION	NO. SAMPLES	RATE	SUBTOTAL			
NO. SAMPLES	RATE	SUBTOTAL							

P 722305

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



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.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



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 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.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.

Laboratory Testing Services

DETERMINATION OF ASBESTOS IN RESILIENT FLOOR TILE*

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formulations 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 THF 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.

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7720 • (201) 433-0008 OUT OF N.Y.S. • FAX NO. 516-334-7720
NEW YORK • BOSTON • PHILADELPHIA • CHICAGO • LOS ANGELES • SAN FRANCISCO • WASHINGTON, D.C. • MIAMI • HONOLULU

P 722309

U U U U U U

064-27

ASBESTOS BULK SAMPLE DATA FORM				ACCOUNTABILITY RECORD SHEET 1 of 1	
BLDG. NAME & ADDRESS: <u>PK Bldg 5G Phase I w/45A-D</u>				REQUESTED COMPLETION DATE: <u>2/24/93 - Morning</u>	
SAMPLE I.D. NO.: <u>6223937259</u> TYPE: <u>B</u> AREA OR ROOM DESCRIPTION: <u>Carpet matting on concrete w/ 5'3' area</u>				JOB NO.: <u>712/1.46</u> BATCH NO.:	
1 <u>6223937259</u> 2 <u>62239372510</u>				CLIENT NAME: <u>American Airlines</u>	
3				SAMPLER'S NAME: <u>Jerry [Signature]</u>	
4				SIGNATURE: <u>[Signature]</u>	
5				DATE: <u>2/24/93</u> TIME COMPLETED: <u>1130</u>	
6				DELIVERED TO LAB BY:	
7				LAB NAME:	
8				ADDRESS:	
9				RECEIVED BY: <u>[Signature]</u> INITIALS: <u>JK</u>	
10				DATE: <u>2/24/93</u> TIME: <u>PM</u>	
11				ANALYZED BY: <u>[Signature]</u> TIME:	
12				LAB QC APPROVAL:	
13				PROJECT MANAGER'S APPROVAL:	

NOTICE: If the sample label is less clear than this poster, it is a sign of the poor quality of the document being printed.

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. Geaghan 212-955-3510 w/results

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

P 722310

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET

BLOG. NAME & ADDRESS: JFK Bldg 56 Ceiling east of Work area 2

SAMPLE I.D. NO	TYPE	AREA OR ROOM DESCRIPTION	TIME/DATE	TIME
0422738501	B	Ceiling Plaster east of Work area 2; adjacent to ceiling line		
0422738502		Ceiling Plaster " " " " " " " " " "		
0422738503		Ceiling Plaster " " " " " " " " " "		
0422738504		Ceiling Plaster " " " " " " " " " "		
0422738505		Ceiling Plaster " " " " " " " " " "		

REQUESTED COMPLETION DATE: 4/23/93 - ASAP

JOB NO: 7021-76 BATCH NO: A14553

CLIENT NAME: Amesbury Airframe

SAMPLER'S NAME: John P. Kelly

SIGNATURE: [Signature]

DATE: 4/23/93 TIME COMPLETED: 160

DELIVERED TO LAB BY: _____

LAB NAME: _____

ADDRESS: _____

RECEIVED BY: _____

DATE: _____ TIME: _____

INITIALS: _____

LAB QC APPROVAL: [Signature]

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	17.6	27.8	8.6									19.14	91	46-1114
2												18.0		
3												14.0		
4												16.4		
5												17.7		

ADDITIONAL COMMENTS & NOTES: Apex to match 212238795 on 4/23/93 as soon as possible!

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT SPECIFIC INSTRUCTIONS
B = BULK MATERIAL D = DEBRIS SAMPLE SDT = SURFACE DUST - TAPE SAMPLE SDV = SURFACE DUST - VACUUM SAMPLE SDV6 = SURFACE DUST - GRAB SAMPLE	CH = CHRYSOPILE AC = ACTINOLITE AM = AMOSITE AN = ANTHOPHYLLITE CR = CROCIDOLITE TR = TREMOLITE	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBROUS MATERIAL	BT = OTHER
			NO. SAMPLES DATE SAMPLES
			OUTSIDE LAB AUTHORIZATION

NOTICE: If the sample holder is less than 1/4 inch thick, it is not to be used for the purpose of this document being created.

P 722311

001081

P-15A-33

ASBESTOS BULK SAMPLE DATA FORM					ACCOUNTABILITY RECORD - SHEET 1 OF 1	
BLDG. NAME & ADDRESS: JFK <i>Relay 58 Phase I w/15A</i>					REQUESTED COMPLETION DATE: <i>4/13/93</i>	
SAMPLE I.D. NO.	TYPE	FLOOR	AREA OR ROOM DESCRIPTION	FURTURE	TIME	JOB NO. <i>7021-46</i> BATCH NO. <i>N1414496</i>
1	04/29/93 10	B	2	Exide Area 5B, edge to cabine line	19	CLIENT NAME: <i>American Airlines</i>
2	11					SAMPLER'S NAME: <i>J. J. ...</i>
3	12					SIGNATURE: <i>[Signature]</i>
4	13					DATE: <i>4/13/93</i> TIME COMPLETED: <i>18:00</i>
5	14					DELIVERED TO LAB BY: _____
6	15					LAB NAME: _____
7	16					ADDRESS: _____
8	17					RECEIVED BY: <i>Norma Lopez</i>
9						DATE: <i>4/13/93</i> TIME: <i>1:27</i> INITIALS: <i>[Initials]</i>
10						ANALYZED BY: _____ TIME: _____
11						LAB QC APPROVAL: _____
12						PROJECT MANAGER'S APPROVAL: _____
13						

NOTICE: If the sample delivery is less than 100 lbs, the weight of the sample is to be recorded in the appropriate column.

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 L.M. 202-833-7795 and 786-561102 by 4/13/93*

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 SDZ - SURFACE DUST - GRAB SAMPLE	CH - CHRYSOTILE AM - AMOSITE CR - CROCIDOLITE AC - ACTINOLITE AN - ANTHOPHYLLITE TR - TRENOLITE	FG - FIBERGLASS MW - MINERAL WOOL CL - CELLULOSE SY - SYNTHETIC FIBER HA - HAIR NF - NON-FIBEROUS MATERIAL OT - OTHER	DATE INITIALS OUTSIDE LAB AUTHORIZATION

PAGE 03

04/13/1993 14:15

04/13/1993 14:15

P 722312

001082

0.64-21

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET 1 OF 1

OLD DO. NAME & ADDRESS: <i>IFK Bldg 56 Phase I w/15A-D</i>		REQUESTED COMPLETION DATE: <i>2/21/93 morning</i>	
SAMPLE I.D. NO. <i>0223333310</i>	TYPE: <i>B</i>	AREA OR ROOM DESCRIPTION: <i>Carpet media on concrete w/ SB area</i>	JOB NO: <i>7021-96</i>
1 2 3 4 5 6 7 8 9 10 11 12 13	TISSUE NO. <i>1</i>	TRANSDUCER NO. <i>1</i>	BATCH NO.
		CLIENT NAME: <i>American Airlines</i>	
		SAMPLER'S NAME: <i>John M. ...</i>	
		SIGNATURE: <i>[Signature]</i>	
		DATE: <i>2/21/93</i> TIME COMPLETED: <i>11:30</i>	
		DELIVERED TO LAB BY:	
		LAB NAME:	
		ADDRESS:	
		RECEIVED BY: <i>J. ...</i> INITIALS: <i>DL</i>	
		DATE: <i>2/21/93</i> TIME:	
		ANALYZED BY:	
		LAB QC APPROVAL:	
		PROJECT MANAGER'S APPROVAL:	

NOTICE: If the Agency believes it has cause, there shall be no liability due to the poor quality of the document being filed.

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: *None analyze via TEM if not positive - Call P. ... Fax results to 714-656-1102 and*

SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B - BULK MATERIAL D - DEHS SAMPLE SDVT - SURFACE DUST - TAPE SAMPLE SDV - SURFACE DUST - VACUUM SAMPLE SDV - 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 INTL SUBSIDE OUTSIDE LAB AUTHORIZATION

P 722313

0010813

H76CL P-3-00

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET 1 OF 1

BLDG. NAME & ADDRESS: SPC BLDG 56 Phase I W/A SA

SAMPLE I.D. NO	TYPE	THROW NO	AREA OR ROOM DESCRIPTION	FUNCTION CODE	SYM CODE
1 03099338509	B	1	Work area SA - white ceiling material (ceiling)		
2 03099338510	B	1	Work area SA - white ceiling material (ceiling)		
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					

REQUESTED COMPLETION DATE: 3/10/93 (800A)

JOB NO. 702146 PATCH NO.

CLIENT NAME: Amesbury

SAMPLER'S NAME: W. H. Hill

SIGNATURE: [Signature]

DATE: 3/1/93 TIME COMPLETED: 1430

DELIVERED TO LAB BY:

LAB NAME:

ADDRESS:

RECEIVED BY:

DATE:

ANALYZED BY: [Signature] INITIALS: [Initials] TIME: 9:12

LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL:

NOTICE: If the design before is less clear than this notice, it shall be the poor quality of the document being reviewed.

ANALYTICAL LABORATORY RESULTS

LAB ID. NO	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS						COMMENTS
	CH	AM	CR	AG	AN	TR	FG	MW	CL	SY	HA	NF	
1 1195	13						MA	5				63	
2 1199	3						TR	5				92	
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													

ADDITIONAL COMMENTS & NOTES: FAK E3 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 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 SAMPLE WRT. SURTVAL
			OUTSIDE LAB AUTHORIZATION

P 722314

001084

7-6-97

ASBESTOS BULK SAMPLE DATA FORM				ACCOUNTABILITY RECORD SHEET 1 of 1										
BLDG. NAME & ADDRESS: <u>Building 5G Northwest Airline Baggage Storage Room</u>				REQUESTED COMPLETION DATE: <u>7/20/97</u>										
SAMPLE I.D. NO.	TYPE	ROOM NO.	AREA OR ROOM DESCRIPTION	JOB NO.:	BATCH NO.									
<u>02249328509</u>	<u>B</u>	<u>1</u>	<u>Storage Room</u>	<u>708146</u>	<u>N/14203</u>									
CLIENT NAME: <u>Northwest Airline</u>				SAMPLER'S NAME: <u>John M. Smith</u>										
SIGNATURE: <u>[Signature]</u>				DATE: <u>7/27/97</u> TIME COMPLETED: <u>1:00</u>										
DELIVERED TO LAB BY:				LAB NAME:										
LAB ADDRESS:				RECEIVED BY: <u>[Signature]</u>										
LAB PHONE:				DATE: <u>7/25</u> TIME: <u>PM</u> INITIALS: <u>[Initials]</u>										
LAB QC APPROVAL:				ANALYZED BY:										
PROJECT MANAGER'S APPROVAL:				LAB QC 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 SAMPLE					
D = DERRIS SAMPLE			AM = AMOSITE			MW = MINERAL WOOL			DATE					
SDVT = SURFACE DUST - TAPE SAMPLE			AC = ACTINOLITE			CL = CELLULOSE			SUBTOTAL					
SDV = SURFACE DUST - VACUUM SAMPLE			AN = ANTHOPHYLLITE			SY = SYNTHETIC FIBER			OUTSIDE LAB AUTHORIZATION					
SDG = SURFACE DUST - GRAB SAMPLE			CR = CROCIDOLITE			HA = HAIR								
			TR = TREMOLITE			NF = NON-FIBEROUS MATERIAL								
						OT = OTHER								

NOTICE: If the number below is less than the number in this box, the quality of this document being checked.

P 722315

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



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 Gechegan

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, S - Binder, O - Opacant, 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/M-82-020.

(1)

001086

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being scanned.



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

David C. Harvey
David C. Harvey
President

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

(2)

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. 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 shall in no event exceed the amount of the invoice.

001081

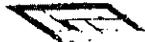
P-171 - J

ASBESTOS BULK SAMPLE DATA FORM							ACCOUNTABILITY RECORD SHEET 1 of 1							
BLDG. NAME & ADDRESS: <i>1617 76th St Purchase</i>							REQUESTED COMPLETION DATE: _____							
1	SAMPLE I.D. NO.	TYPE	AREA OR ROOM DESCRIPTION	FURNISH	TYPE	JOB NO. <i>9021.76</i>	BATCH NO. <i>NY14550</i>							
2	<i>C7267712501</i>	<i>B</i>	<i>Elbow fitting installation on water supply line</i>	<i>100%</i>	<i>100%</i>	CLIENT NAME: <i>American Airline</i>								
3	<i>C7267712502</i>	<i>B</i>	<i>Elbow fitting installation on water supply line</i>	<i>100%</i>	<i>100%</i>	SAMPLER'S NAME: <i>J. Lopez</i>								
4	<i>C7267712503</i>	<i>B</i>	<i>Elbow fitting installation on water supply line</i>	<i>100%</i>	<i>100%</i>	SIGNATURE: _____								
5						DATE: <i>4/27/83</i> TIME COMPLETED: <i>16.00</i>								
6						DELIVERED TO LAB BY: _____								
7						LAB NAME: _____								
8						ADDRESS: _____								
9						RECEIVED BY: <i>J. Lopez</i>								
10						DATE: <i>4/27/83</i> TIME: <i>0.00</i> INITIALS: <i>JL</i>								
11						ANALYZED BY: _____ TIME: _____								
12						LAB QC APPROVAL: _____								
13						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: <i>Fax to S. Madrid 2129037795 and 7186561102</i>														
*SAMPLE TYPE CODES			ASBESTOS TYPE CODES			ABBREVIATIONS FOR OTHER COMPONENTS			CLIENT BILLING INSTRUCTIONS					
B	= BULK MATERIAL		CH	= CHRYSOTILE		FG	= FIBERGLASS		NO	= NO SAMPLE				
D	= DEBRIS SAMPLE		AM	= AMOSITE		MW	= MINERAL WOOL		DATE	= DATE				
SDT	= SURFACE DUST - TAPE SAMPLE		AC	= ACTINOLITE		CL	= CELLULOSE		SUBTOTAL	= SUBTOTAL				
SDY	= SURFACE DUST - VACUUM SAMPLE		AN	= ANTHOPHYLLITE		SY	= SYNTHETIC FIBER		OUTSIDE LAB AUTHORIZATION					
SDG	= SURFACE DUST - GRAB SAMPLE		CR	= CROCIDOLITE		HA	= HAIR							
			TR	= TREMOLITE		NF	= NON-FIBEROUS MATERIAL							
						OT	= OTHER							

NOTICE: If the lamp below is less clear than the others, it may be the poor quality of the document being scanned.

P 722318

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



Laboratory Testing Services

Methodology Explanation:

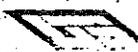
Laboratory Testing Services, Inc. follows guidelines of EPA-600/M4-82-020 for the analysis of bulk samples for asbestos by polarized light microscopy. This method was prepared by the EPA to set criteria for the analysis of friable substances. (Easily crumbled or reduced to a powder by hand pressure). 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.

001089

NOTICE: If the image below is less clear than this screen,
it is due to the poor quality of the document being scanned.



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 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.

NOTICE: If this image below is less clear than this notice,
it is due to the poor quality of the document being filmed.



**DETERMINATION OF ASBESTOS IN
RESILIENT FLOOR TILE***

Resilient floor tiles consist of formulations based either on asphalt or polyvinyl chloride. Early formulations 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.

000002

ASBESTOS BULK SAMPLE DATA FORM						ACCOUNTABILITY RECORD SHEET <u>1 of 1</u>								
BLDG. NAME & ADDRESS: <u>T.F.K.I.A. Building 56 American Airlines</u>						REQUESTED COMPLETION DATE: <u>8/16/93</u> <u>6:00:00pm</u>								
SAMPLE I.D. NO. TYPE TIME AREA OR ROOM DESCRIPTION TIME TIME						JOB NO: <u>7021-44</u> BATCH NO: <u>NY/5101</u>								
1	<u>02332401</u>	<u>B</u>	<u>3³⁰</u>	<u>1st floor 12 west hallway</u>	<u>3:30</u>	<u>3:30</u>	CLIENT NAME: <u>American Airlines</u>							
2	<u>" 02</u>	<u>B</u>	<u>3³⁰</u>	<u>" "</u>	<u>" "</u>	<u>" "</u>	SAMPLER'S NAME: <u>Bill Babin</u>							
3	<u>" 03</u>	<u>B</u>	<u>3³⁰</u>	<u>" "</u>	<u>" "</u>	<u>" "</u>	SIGNATURE: <u>Bill Babin</u>							
4	<u>" 04</u>	<u>B</u>	<u>3³⁰</u>	<u>Construction site 1st floor</u>	<u>3:30</u>	<u>3:30</u>	DATE: <u>8/12/93</u> TIME COMPLETED							
5	<u>" 05</u>	<u>B</u>	<u>3³⁰</u>	<u>" "</u>	<u>" "</u>	<u>" "</u>	DELIVERED TO LAB BY: <u>Fred</u>							
6							LAB NAME: <u>E.T.S.</u>							
7							ADDRESS:							
8							RECEIVED BY: <u>Bill Babin</u>							
9							DATE: <u>8/13</u> TIME: <u>10:15</u> INITIALS: <u>CB</u>							
10							ANALYZED BY:							
11							LAB OF APPROVAL:							
12							PROJECT MANAGER'S APPROVAL:							
13														
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: <u>PLEASE For Results to H+GCL (212) 983-8715 Attention Bill Babin</u>														
*SAMPLE TYPE CODES		ASBESTOS TYPE CODES			ABBREVIATIONS FOR OTHER COMPONENTS			CLIENT BILLING INSTRUCTIONS						
B - BULK MATERIAL	CH - CHRYSOTILE	AC - ACTINOLITE	FG - FIBERGLASS	OT - OTHER	IN	MR	INTL							
D - DEBRIS SAMPLE	AM - AMOSITE	AN - ANTHOPHYLLITE	MW - MINERAL WOOL											
SOV - SURFACE DUST - TAPE SAMPLE	CR - CROCIDOLITE	TR - TRENOLITE	CL - CELLULOSE											
SDV - SURFACE DUST - VACUUM SAMPLE			SY - SYNTHETIC FIBER											
SDG - SURFACE DUST - GRAB SAMPLE			SK - SKIN											
			NS - NON-FIBEROUS MATERIAL											
							OUTSIDE LAB AUTHORIZATION							

NOTICE: If the analyst detects a high level of asbestos, then the project manager must be notified immediately to ensure the proper quality of the document being prepared.

8-19-1993 12117

P 722323

001083

147A-17

ASBESTOS BULK SAMPLE DATA FORM					ACCOUNTABILITY RECORD SHEET	
BLDG. NAME & ADDRESS: <i>VK Sta 56 Phase II W/2</i>					REQUESTED COMPLETION DATE: _____	
SAMPLE I.D. NO. TYPE TRIA TR					JOB NO. <i>702146</i> BATCH NO. <i>N114706</i>	
AMCA OR ROOM DESCRIPTION					CLIENT NAME: <i>American Airlines</i>	
1	<i>07269775</i>	<i>15</i>	<i>5</i>	<i>1</i>	SAMPLER'S NAME: <i>[Signature]</i>	
2	<i>1</i>	<i>14</i>	<i>8</i>	<i>1</i>	SIGNATURE: <i>[Signature]</i>	
3					DATE: <i>7/26/03</i> TIME COMPLETED: <i>12:05</i>	
4					DELIVERED TO LAB BY: _____	
5					LAB NAME: _____	
6					ADDRESS: _____	
7					RECEIVED BY: _____	
8					DATE: _____ TIME: _____	
9					INITIALS: _____	
10					ANALYZED BY: _____	
11					LAB QC APPROVAL: _____	
12					PROJECT MANAGER'S APPROVAL: _____	
13						

4620
4621
4622

07/26/03 08:00 08:00:00

L751WESTBURY, NY

PAGE: 03

NOTICE: If the image above is less than 300 dpi, please contact the client to ensure the best possible quality of the document being stored.

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: <i>FAX to S.M. 2121838715</i>												
*SAMPLE TYPE CODES			ASBESTOS TYPE CODES				ABBREVIATIONS FOR OTHER COMPONENTS				CLIENT BILLING INSTRUCTIONS	
B = BULK MATERIAL			CH = CHRYSOTILE		AC = ACTINOLITE		FG = FIBROGLASS		OT = OTHER		DATE	
D = DEBRIS SAMPLE			AM = AMOSITE		AN = ANTHOPHYLLITE		MW = MINERAL WOOL				SITE	
SD/T = SURFACE DUST - TAPE SAMPLE			CR = CROCIDOLITE		TR = TREMOLITE		CL = CELLULOSE				INSTITUTE	
SD/S = SURFACE DUST - VACUUM SAMPLE							SY = SYNTHETIC FIBER				DATE OF LAB AUTHORIZATION	
SD/G = SURFACE DUST - GRAB SAMPLE							HA = HAIR					
							NF = NON-FIBEROUS MATERIAL					

P 722324

ASBESTOS BULK SAMPLE DATA FORM						ACCOUNTABILITY RECORD SHEET <u>1 of 1</u>	
BLDG. NAME & ADDRESS: <u>22 City St Below area 1E+5</u>						REQUESTED COMPLETION DATE: <u>6-9</u>	
SAMPLE ID. NO.	TYPE*	AREA OR ROOM DESCRIPTION	FUNCTION CODE	NO. OF SAMPLES	JOB NO. <u>702646</u>	BATCH NO. <u>114 HPM</u>	
1 <u>73005</u>	<u>B</u>	<u>transmission duct insulation external blk</u>	<u>000</u>	<u>1</u>	CLIENT NAME: <u>American Asbestos</u>		
2 <u>73006</u>	<u>B</u>				SAMPLER'S NAME: <u>J. P. [unclear]</u>		
3					SIGNATURE: <u>[Signature]</u>		
4					DATE: <u>6/2/83</u>	TIME COMPLETED: <u>1600</u>	
5					DELIVERED TO LAB BY:		
6					LAB NAME:		
7					ADDRESS:		
8					RECEIVED BY: <u>[Signature]</u>		
9					DATE: <u>6/9</u>	INITIALS: <u>[unclear]</u>	
10					ANALYZED BY: <u>[unclear]</u>	TIME: <u>6/10/83</u>	
11					LAB QC APPROVAL: <u>[Signature]</u>		
12					PROJECT MANAGER'S APPROVAL:		
13							

ANALYTICAL LABORATORY RESULTS														
LAB ID. NO.	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS						COMMENTS	
	CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NE		OT
1 <u>73005</u>														<u>method refer</u>
2 <u>DLP</u>														<u>SO</u> <u>GY</u>
3														
4														
5														<u>found</u> <u>6/10/83</u>
6														<u>refused</u> <u>6/10/83</u>
7														
8														
9														
10														
11														
12														
13														

ADDITIONAL COMMENTS & NOTES: FAX to S.M. 229838795

SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	CLIENT BILLING INSTRUCTIONS
B - BULK MATERIAL D - DEBRIS SAMPLE SDYT - SURFACE DUST - TAPY SAMPLE SDYV - SURFACE DUST - VACUUM SAMPLE SDYG - SURFACE DUST - GRAB SAMPLE	CH - CHRYSOTILE AM - AMOSITE CR - CROCIDOLITE AC - ACTINOLITE AN - ANTHOPHYLITE TR - TREMOLITE	FG - FIBERGLASS MW - MINERAL WOOL CL - CELLULOSE SY - SYNTHETIC FIBER HA - HAIR NF - NON-FIBEROUS MATERIAL DT - OTHER	NO. SAMPLES MRT SUPPORT OUTSIDE LAB AUTHORIZATION

NOTICE: If the hazard below is less than that of the material, it is not to be included in the document being issued.
 JUN-14-83 15:44 101HWBENTICS LAB TEL: 401-817-599-0569

P 722325

001095

SBESTOS BULK SAMPLE DAT. FORM				ACCOUNTABILITY RECORD SHEET 1 of 1	
BLDG. NAME & ADDRESS: <i>25 Ry St Below area 10E+F</i>				REQUESTED COMPLETION DATE: <i>6-9</i>	
1	SAMPLE I.D. NO. <i>0607171501</i>	TYPE: <i>B</i>	AREA OR ROOM DESCRIPTION	JOB NO. <i>702146</i>	BATCH NO. <i>1414711</i>
2	<i>0607171502</i>	<i>D</i>	<i>Transferred on Dust inside in electrical lab area 10E</i>	CLIENT NAME <i>American Airline</i>	
3				SAMPLE LAB NAME	
4				SIGNATURE <i>[Signature]</i>	
5				DATE <i>06/06/93</i>	TIME COMPLETED <i>1600</i>
6				DELIVERED TO LAB BY:	
7				LAB NAME:	
8				ADDRESS:	
9				RECEIVED BY: <i>[Signature]</i>	INITIALS:
10				DATE: <i>6/9</i>	TIME: <i>6/10/93</i>
11				ANALYZED BY: <i>G. Hayes</i>	TIME: <i>6/10/93</i>
12				LAB QC APPROVAL: <i>[Signature]</i>	
13				PROJECT MANAGER'S APPROVAL:	

NOTICE: If the sample is not clear from this notice, it is due to the poor quality of the equipment being used.

ANALYTICAL LABORATORY RESULTS																
LAB ID. NO.	ASBESTOS CONCENTRATIONS						CONCENTRATIONS OF OTHER COMPONENTS						method	order	COMMENTS	
	CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF				OT
<i>73005</i>														<i>SO</i>	<i>07</i>	
<i>04</i>														<i>SO</i>	<i>07</i>	
																<i>found 6/10/93</i>
																<i>re-found 6/10/93</i>

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	<table border="1"> <tr> <th>EST.</th> <th>DATE</th> <th>SUBTOTAL</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> OUTSIDE LAB AUTHORIZATION	EST.	DATE	SUBTOTAL			
EST.	DATE	SUBTOTAL							

P 722326

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: Cassette Size: Membrane Type: Pore Size:

- Check one - - Check one - - Check one - - Check one -

Environmental 25 mm MCE 0.8 um
 Personal 37 mm PC 0.45 um
 Other Other Other Other

Rotometer Number: #6

SAMPLE NUMBER	LOCATION / NAME	FLOW RATE (LITERS / MIN)		TIME (24 HOUR FORMAT)		LAB NUMBER	RESULT (f/cc)
		INITIAL	FINAL	ON	OFF		
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
RISK MGMT. DIV.
89 DEC 12 AM 10:01

COMMENTS: SAMPLES WERE TAKEN DURING FINAL AIR CLEARANCE

ASBESTOS MANAGEMENT AND COMPLICANE DIVISION REPRESENTATIVE(S): _____
AM & CD, PA CONSULTANT Richard Gault COMPANY: HYGIENETICS INC

* Results reported as "LESS THAN" are for upper 95 % confidence interval (i.e., "EMPLOYERS TEST FOR CONFIDENCE").

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being filmed.

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 Gachagan

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:

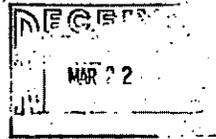
SAMPLE NO.	LTS ID#	COLOR, METHOD	SAMPLE ID	ASBESTOS CONTENT	ASBESTOS TYPE	OTHER COMPONENTS
041293385						
10	93B1968	TAN, 2B	PLASTER	ND	--	CELL 3%, P & O 97%
11	93B1969	TAN, 2B	PLASTER	ND	--	CELL 2%, P & O 98%
12	93B1970	TAN, 2B	PLASTER	ND	--	CELL 2%, P & O 98%
13	93B1971	TAN, 2B	PLASTER	ND	--	CELL 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: 1 = Amosite, 2 = Chrysotile, 3 = Crocidolite, 4 = Other (Specify):
OTHER COMPONENTS: FG - Fibrous Glass, CELL - Cellulose, SYN - Synthetics, CT - Cement, P - Plaster, B - Binder, C - Coagulum, M - Magnetite, V - Vinyl, VERM - Vermiculite, AN - 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 found normally obtained from EPA/600/M-82-020.

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.



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 Geohagan

PROJECT NO.: 6766(A)
LAB. NO.: 93-06766(P-03)
DATE: 01/10/93
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:	OTHER COMPONENTS:
1 = Amosite	FG - Fibrous Glass, CELL - Cellulose,
2 = Chrysotile	SYN - Synthetics, CT - Cement, P - Plaster
3 = Crocidolite	B - Binder, O - Opacors, 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.

(1)

NOTICE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.



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 Geohagan

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.	ITS 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:

- 1 = Amosite
- 2 = Chrysotile
- 3 = Crocidolite
- 4 = Other (Specify)

OTHER COMPONENTS:

- FG - Fibrous Glass, CELL - Cellulose,
- STM - Synthetics, CT - Cement, P - Plaster
- S - Binder, O - Opacques, M - Magnesite, V - Vinyl
- VERM - Vermiculite, AN - 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.

(2)

000000

NOTE: If the image below is less clear than this notice,
it is due to the poor quality of the document being scanned.



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 Geohagan

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 TYPES:
1 = Amosite
2 = Chrysotile
3 = Crocidolite
4 = Other (Specify)

OTHER COMPONENTS:
FC - Fibrous Glass, CELL - Cellulose,
SYM - Synthetics, CT - Cement, P - Plaster
B - Binder, O - Opacant, M - Magnesia, V - Vinyl
VERM - vermiculite, AN - 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.

(3)

P 722302

000002

NOTICE: If the image below is less clear than this notice, it is due to the poor quality of the document being scanned.



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

v1

NVLAP ACCRED. # 1332

NYS ELAP APPROVAL # 10837

AIHA ACCRED. # 313

(4)

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. Information contained herein is not to be used for reproduction or other purposes without 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.

P 722303

000000

P-222-24

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET 1 OF 1

BLDG. NAME & ADDRESS: *AFK Bldg 56 Phase III w/lt II*

SAMPLE I.D. NO.	TYPE*	FLOOR NO.	AREA OR ROOM DESCRIPTION	FURNITURE CODE	TYPE CODE
1	<i>35</i>	<i>13</i>	<i>ceiling material between columns 2 & 9</i>		
2	<i>35</i>	<i>13</i>	<i>ceiling material between line column 2 & 9</i>		
3	<i>35</i>	<i>13</i>	<i>ceiling material between line column 2 & 9</i>		

REQUESTED COMPLETION DATE: _____ BATCH NO.: *14458*

JOB NO.: *72224*

CLIENT NAME: *American Legion*

SAMPLER'S NAME: _____

SIGNATURE: _____

DATE: *5/1/57* TIME COMPLETED: *600*

DELIVERED TO LAB BY: _____

LAB NAME: _____

ADDRESS: _____

RECEIVED BY: _____

DATE: *5-5-58* TIME: _____ INITIALS: _____

ANALYZED BY: _____ TIME: _____

LAB QC APPROVAL: _____

PROJECT MANAGER'S APPROVAL: _____

NOTICE: This form is to be used only for asbestos bulk samples. It is not to be used for the purpose of the document being tested.

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. Mical @ 21928715 & 712661102. ASAP. Raw*

*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	<table border="1"> <tr> <th>NO. SAMPLES</th> <th>MTS</th> <th>SUBTOTAL</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> OUTSIDE LAB AUTHORIZATION	NO. SAMPLES	MTS	SUBTOTAL			
NO. SAMPLES	MTS	SUBTOTAL							

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

AREA DESCRIPTION: HANGAR #10

BUILDING: 10

FLOOR: 3

<u>SAMPLE NUMBER</u>	<u>LOCATION</u>	<u>RESULT</u>
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

PA 075488

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

CONTENTS

	PAGE
EXECUTIVE SUMMARY.....	i
I. INTRODUCTION.....	I-1
II. BUILDING SURVEY.....	II-1
III. PRIORITY LEVEL DETERMINATION/ PORT AUTHORITY AREA DESIGNATION.....	III-1
IV. SAMPLING RULES AND PROCEDURES.....	IV-1
V. THE HALL-KIMBRELL ALGORITHM.....	V-1
VI. THE LABORATORY.....	VI-1
VII. REPORT FORMAT FOR PETROGRAPHS.....	VII-1
VIII. REPORT FORMAT FOR SPREADSHEETS.....	VIII-1
IX. SYNOPSIS OF ANTICIPATED ABATEMENT COST.....	IX-1
X. OPERATIONS AND MAINTENANCE CODES.....	X-1
XI. BUILDING-BY-BUILDING REPORTS.....	XI-1
A. Findings and Observations	
B. Cost Estimates	
C. Photograph Log	
D. Petrographic Results	
E. Spreadsheets	
F. Sample Location Drawings	
XII. CERTIFICATION OF REPORT.....	XII-1

APPENDICES

- A. GLOSSARY OF TERMS AND ABBREVIATIONS
- B. BUILDINGS WITH NO SUSPECT MATERIALS FOUND/
NO SAMPLES TAKEN
- C. LABORATORY CERTIFICATIONS
- D. SIGNIFICANT POTENTIAL HAZARD AREAS
- E. IMMEDIATE RESPONSE ACTION AREAS CONTAINING DEBRIS
- F. THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
ASBESTOS MANAGEMENT AND CONTROL PROGRAM

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

<u>BUILDING NUMBER/NAME</u>	<u>PRIORITY LEVEL I</u>	<u>PRIORITY LEVEL II</u>	<u>PRIORITY LEVEL III</u>	<u>PRIORITY LEVEL IV</u>	<u>TOTAL</u>
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

<u>BUILDING NUMBER/NAME</u>	<u>PRIORITY LEVEL I</u>	<u>PRIORITY LEVEL II</u>	<u>PRIORITY LEVEL III</u>	<u>PRIORITY LEVEL IV</u>	<u>TOTAL</u>
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

<u>BUILDING NUMBER/NAME</u>	<u>PRIORITY LEVEL I</u>	<u>PRIORITY LEVEL II</u>	<u>PRIORITY LEVEL III</u>	<u>PRIORITY LEVEL IV</u>	<u>TOTAL</u>
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 ^{++*}	—	—	—	14,211*
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.

PA 078633

ESTIMATED REMOVAL AND REPLACEMENT COSTS
INCLUDING CONTINGENCY, ARCHITECTURAL/ENGINEERING, AIR MONITORING, AND REIMBURSABLE FEES

<u>BUILDING NUMBER/NAME</u>	<u>PRIORITY LEVEL I</u>	<u>PRIORITY LEVEL II</u>	<u>PRIORITY LEVEL III</u>	<u>PRIORITY LEVEL IV</u>	<u>TOTAL</u>
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.

PA 078634

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.

PA 078635

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:

<u>Port Authority Designation</u>	<u>Hall-Kimbrell Exposure Potential</u>	<u>Hall-Kimbrell Designation</u>
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.

PA 078636

III. PRIORITY LEVEL DETERMINATION/PORT AUTHORITY AREA DESIGNATION

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.

PA 078637

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 10,000 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.

PA 078638

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.

PA 078639

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

PA 078640

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).

PA 078641

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

PA 078642

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	3
	(evidence of dust and debris)	

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

$$\begin{array}{r} \text{then } (2 + 1 + 4 + 4 + 1 + 0) \times (1 \times 3) \\ \qquad \qquad \qquad 12 \qquad \qquad \times \quad 3 \qquad = \quad 36 \\ \text{Exposure Number} = 36 \end{array}$$

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.

PA 078645

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.

PA 078646

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	GYP SUM
H	HORNBLLENDE
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.

PA 078647

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.

PA 078648

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.

PA 078649

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.

PA 078650

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.

PA 078651

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.

PA 078652

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.

PA 078653

IX. SYNOPSIS OF ANTICIPATED COST

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.

PA 078654

IX. SYNOPSIS OF ANTICIPATED COST

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.

PA 078655

IX. SYNOPSIS OF ANTICIPATED COST

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.

PA 078656

IX. SYNOPSIS OF ANTICIPATED COST

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.

PA 078657

X. OPERATIONS AND MAINTENANCE CODES

<u>O & M CODE</u>	<u>MATERIAL REFERENCED</u>	<u>BULK SAMPLE CODES</u>
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

INDEX OF FACILITIES - VOLUME III

<u>BUILDING #</u>	<u>BUILDING NAME</u>
61	WATER CHILLER TOWER
62	WATER CHILLER TOWER
63	WATER CHILLER TOWER
66	BRITISH AIRWAYS UNIT CARGO BUILDING
67	PAN AM AIRLINES UNIT CARGO BUILDING
68	CARGO SERVICE BUILDING
72	CITIBANK BUILDING
80	CARGO SERVICE BUILDING
81	CARGO BUILDING
82	CARGO BUILDING
83	AIR FRANCE CARGO BUILDING
84	CARGO BUILDING
86	CARGO BUILDING
87	KLM-AER LINGUS CARGO BUILDING
88-88A	HUDSON GENERAL CARGO BUILDING
89	TRIANGLE AVIATION CARGO BUILDING
90	ALLIED FUEL DISTRIBUTION MAINTENANCE GARAGE
93	EASTERN AIRLINES STORAGE BUILDING
94	TWA HANGAR 12/FLAMMABLE STORAGE BUILDING
95	TWA HANGAR 12/COMMISSARY
96	TWA HANGAR 12/MAINTENANCE GARAGE
106	PORT AUTHORITY SURVEY GROUP STOREHOUSE
110	AIRLINE SERVICES BUILDING
111	FITZGERALD FEDERAL BUILDING
113	FUEL FARM ACCOUNTING OFFICE
114	FUEL FARM TOOLHOUSE
122	AMERICAN AIRLINES FLIGHT KITCHEN
123	AMERICAN AIRLINES CARGO BUILDING
124	NEW YORK TELEPHONE BUILDING
125	ALLIED AVIATION BUILDING
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

PA 078662

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
--	-----------

MALL-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				OTHER MATERIALS				TOTAL
				CHRY	AMO	CRO	ANT TRE	WOOL	CEL	HICA	PER BINDER OTHER	
0 -187879	N	Y	70	40	30					30		100
0 -187880	N	Y	60	60						40		100

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

KALL-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				OTHER MATERIALS				TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA		PER
0 -187879A	N	Y	70	40	30							30	100
0 -187880A	N	Y	60	60								40	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

W-K Building #: 16

Building Number: 062
 Building Name: CHILLER TOWER
 JFK AIRPORT
 Building Type: CHILLER
 Constructed: 1963
 Inspected: 04/21/88
 Inspector: C. FERGUSON

Page 1

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	OM2	5760	sq.ft.		70	21	III	\$13,882	\$27,706	\$41,588	
		ceiling throughout	187880A-0	Transite wall board	OM2	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

PA 078674

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

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	CHRY	ASBESTOS				OTHER MATERIALS				TOTAL
					AHO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	
0 -1878798	N	Y	70	40	30							30	100
0 -1878808	N	Y	60	60								40	100

PA 078677

PA 078679

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 than 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 078683

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: W70277 JFK INTERNATIONAL AIRPORT

BUILDING: 066

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS				OTHER MATERIALS					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER
1 -221241	Y	N	0							30		30		40 GH	100
1 -221242	Y	N	0							35		25		40 GH	100
1 -221243	Y	N	0							30		25		45 GH	100
1 -221244	Y	N	0							25		30		45 GH	100
1 -221245	Y	N	0							25		30		45 GH	100
2 -221246	Y	Y	10	10						35		55			100
2 -221247	Y	Y	2	2	10					40		58			100
2 -221248	Y	Y	5	5	5					40		55			100
2 -221249	Y	Y	10	10	10					45		45			100
2 -221250	Y	Y	5	5	5					40		55			100
2 -221251	Y	Y	2	2	2					40		58			100
2 -221252	Y	Y	10	10	10					45		45			100
0 -221253	N	N	0									10		90 GH	100
0 -221254	N	N	0						80			20			100
0 -221255	N	N	0									20		80 GH	100
0 -221256	N	N	0						20	45		25	10		100
0 -221257	N	N	0									20		80 GH	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	10						45	45			100
3 -221262	Y	Y	8	8	8						40	52			100
3 -221263	Y	Y	5	5	5						50	45			100
3 -221264	Y	Y	10	10	10						45	45			100
3 -221265	Y	Y	8	8	8						45	47			100
3 -221266	Y	Y	10	10	10						40	50			100
3 -221267	Y	Y	10	10	10						45	45			100
3 -221268	Y	Y	5	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	30				20			50			100
4 -221272	Y	Y	35	35	35				20			45			100
4 -221273	Y	Y	40	40	40				20			40			100
5 -221274	Y	Y	30	30	30							30		40 GH	100
5 -221275	Y	Y	40	40	40							30		30 GH	100
5 -221276	Y	Y	35	35	35							35		30 GH	100
6 -221277	Y	Y	20	20	20					30		50			100
6 -221278	Y	Y	20	20	20					20		60			100
6 -221279	Y	Y	25	25	25							75			100
7 -221280	Y	Y	30	30	30							40		30 GH	100
7 -221281	Y	Y	25	25	25							45		30 GH	100
7 -221282	Y	Y	30	30	30							35		35 GH	100
8 -221283	N	Y	25	5	20							75			100
8 -221284	N	Y	10	10	10				40			50			100
8 -221285	N	Y	10	10	10				50			40			100
0 -221286	N	N	0						30	40		20	10		100
0 -221287	N	Y	6	6	6							10		84 GH	100
0 -221288	N	N	0						30	40		20	10		100
0 -221289	N	Y	2	2	2							20		78 GH	100
0 -221290	N	Y	2	2	2							10		88 GH	100
0 -221291	N	Y	6	6	6							10		84 GH	100
0 -221292	N	N	0									10		90 GH	100
0 -221293	N	N	0									10		90 GH	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	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	ARROW AIR	2nd Floor-South Wing-Floor					AREA AVERAGE % ASB - 2%							
		underneath carpet-throughout	221289-0	vinyl floor tile	OHZ	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			\$2,270	\$1,720	\$3,990
									TOTAL			\$2,270	\$1,720	\$3,990

PA 078687

Asbestos Assessment Survey

Building Name: BRITISH AIR UNIT CARGO

JFK AIRPORT

Building Type: CARGO

Constructed: 1965

Inspected: 06/29/88

Inspector: J. S. Lanan

H-K Building #: 43

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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 1	\$146,261	\$34,304	\$180,565	
			221247-2	fireproofing	OMC			2	78 1				
			221248-2	fireproofing	OMC			5	78 1				
			221249-2	fireproofing	OMC			10	78 1				
			221250-2	fireproofing	OMC			5	78 1				
			221251-2	fireproofing	OMC			2	78 1				
			221252-2	fireproofing	OMC			10	78 1				
										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 l-beams. This debris should be cleaned up and the material encapsulated.

PA 078688

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066 Page 3
 Building Name: BRITISH AIR UNIT CARGO
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1965
 Inspected: 06/29/88
 Inspector: J. S. Lanen

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

Asbestos Assessment Survey

H-K Building #: 43

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&M CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		north wall-inside doorway	221286-0	stored insulation/material	OMC	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	ONG	10500 sq.ft.									
										AREA TOTAL	\$0	\$0	\$0

hkc

PA 078690

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.	OM	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							

PA 078691

Building Name: BRITISH AIR UNIT CARGO
JFK AIRPORT

Building Type: CARGO
Constructed: 1965
Inspected: 06/29/88
Inspector: J. S. Lanan

Asbestos Assessment Survey

H-K Building #: 43

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&H 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	OM2	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	

PA 078693

473

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

M-K Building #: 43

Building Number: 066 Page 8
 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												
		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 DEVELOPMNT TOTAL	\$5,448	\$4,128	\$9,576

PA 078694

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 43

Building Number: 066 Page 9
 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		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

Asbestos Assessment Survey

H-K Building #: 43

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	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%												

9/18/88

PA 078696

Asbestos Assessment Survey

H-K Building #: 43

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&H 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

PA 078699

BUILDING 67
PAN AM AIRLINES UNIT CARGO BUILDING

PA 078700

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.

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				OTHER MATERIALS					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	NICA	PER		BINDER	OTHER
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	40 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

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS				OTHER MATERIALS					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER
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

8266

PA 078706

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
 PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 067

SAMPLE NUMBER	NOMO	ASB/PRES	TOTAL ASB	ASBESTOS				OTHER MATERIALS				TOTAL
				CHRY	AMO	CRO	ANT TRE	WOOL	CEL	MICA	PER BINDER	
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

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

H-K Building #: 067

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													
		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													
		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 Offices-Customer Service													
		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													
		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													
		throughout ceiling area	251530-0	drop or lay-in panel	OMG	19800 sq-ft.			0						

PA 078708

Asbestos Assessment Survey

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
--------	--------	--	---------------	-------------------------	----------	-------	-----------------	---------	-------	---------	----	---------------	-------------------	-------------

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			

PA 078709

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						

PA 078710

Asbestos Assessment Survey

Building Name: PAN AM UNIT CARGO BLDG.
JFK AIRPORT

Building Type: CARGO

Constructed: 1966

Inspected: 07/15/88

Inspector: Doug Thomas

H-K Building #: 067

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	
		boiler #1 vent pipe	251590-21	boiler/tank insulation	OMB					0				
			251591-22	breecher/exhaust stack packing	OMB	400 sq.ft.				0				
			251592-22	breecher/exhaust stack packing	OMB					0				
		boiler #2 vent pipe	251593-22	breecher/exhaust stack packing	OMB					0				
			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 in west air plenum room	251597-24	mjp on non-suspect pipe cover	OMA	40	4 in. O.D.	DW		0				
			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%

1-beams above switch gear room	251532-6	fireproofing	OMC	423 sq.ft.		40	84	I	\$15,275	\$2,826	\$18,101
1-beams inside air plenum	251532-6	fireproofing	OMC	217 sq.ft.		40	84	I	\$7,836	\$1,450	\$9,286
1-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			

PA 078711

H-K Building #: 067

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
			251540-6	fireproofing	OMC				35	84	I				
<p>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.</p>												AREA TOTAL	\$75,073	\$13,889	\$88,962

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
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				
<p>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.</p>												AREA TOTAL	\$46,867	\$10,138	\$57,005

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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

PA 078712

Asbestos Assessment Survey

Building Name: PAN AM UNIT CARGO BLDG.
JFK AIRPORT

Building Type: CARGO

Constructed: 1966

Inspected: 07/15/88

Inspector: Doug Thomas

N-K Building #: 067

AREA TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&N CODE	UNIT OF QUANT 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 - OX

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 - OX

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

PA 078713

Asbestos Assessment Survey

H-K Building #: 067

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&H 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	111	\$189	\$105	\$294
			251732-32	mjp on non-suspect pipe cover	OMA				30	22	111			
			251733-32	mjp on non-suspect pipe cover	OMA				35	22	111			
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	1	\$86,375	\$15,979	\$102,354
			251726-31	fireproofing	OMC				35	66	1			
			251727-31	fireproofing	OMC				30	66	1			
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

PA 078714

337
338

H-K Building #: 067

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT	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	

PA 078715

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	
		north wall-at ceiling	251564-13	boiler/tank insulation	OMB				50	22	III				
			251565-13	boiler/tank insulation	OMB				50	22	III				
			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

PA 078716

Asbestos Assessment Survey

Building Name: PAN AM UNIT CARGO BLDG.

JFK AIRPORT

Building Type: CARGO

Constructed: 1966

Inspected: 07/15/88

Inspector: Doug Thomas

H-K Building #: 067

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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.	CMS/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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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.	HMS/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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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

343

PA 078717

K-K Building #: 067

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	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

PA 078718

133

Asbestos Assessment Survey

H-K Building #: 067

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	
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

PA 078719

H-K Building #: 067

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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

PA 078720

Asbestos Assessment Survey

Building Name: PAN AM UNIT CARGO BLDG.

JFK AIRPORT

Building Type: CARGO

Constructed: 1966

Inspected: 07/15/88

Inspector: Doug Thomas

H-K Building #: 067

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H 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	OX				
		throughout	251553-0	roofing tar paper/roofing felt CMZ		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	

036

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	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	NICA	PER		BINDER	OTHER
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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
01	CARGO SERVICE	1st Floor	AREA AVERAGE % ASB - 18%										
		Iraqi Airways-boiler room	251696-3	mjp on non-suspect pipe cover	OMA	14 4 in. O.D.	HWS/R	10	40	11	\$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	11	\$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	11	\$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	11	\$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	11	\$869	\$483	\$1,352
		Iraqi Airways-cargo area	251696-3	mjp on non-suspect pipe cover	OMA	12 4 in. O.D.	HWS/R	10	40	11	\$454	\$252	\$706
		Carikargo-cargo area	251696-3	mjp on non-suspect pipe cover	OMA	20 4 in. O.D.	HWS/R	10	40	11	\$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	11	\$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	11	\$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	11	\$378	\$210	\$588
		Carikargo-cargo area	251696-3	mjp on non-suspect pipe cover	OMA	3 4 in. O.D.	HWS/R	10	40	11	\$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	11	\$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	11	\$454	\$252	\$706
			251697-3	mjp on non-suspect pipe cover	OMA			20	40	11			
			251698-3	mjp on non-suspect pipe cover	OMA			10	40	11			
		Air India-hallway closet	251699-4	mjp on non-suspect pipe cover	OMA	10 4 in. O.D.	DW	20	40	11	\$378	\$210	\$588
		Iraqi Airways-boiler room	251699-4	mjp on non-suspect pipe cover	OMA	8 4 in. O.D.	DW	20	40	11	\$302	\$168	\$470
		Transworld Shipping-cargo area	251699-4	mjp on non-suspect pipe cover	OMA	3 4 in. O.D.	DW	20	40	11	\$113	\$63	\$176
		Transworld Shipping-boiler room	251699-4	mjp on non-suspect pipe cover	OMA	12 4 in. O.D.	DW	20	40	11	\$454	\$252	\$706
		Virgin Cargo-boiler room	251699-4	mjp on non-suspect pipe cover	OMA	14 4 in. O.D.	DW	20	40	11	\$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	11	\$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	11	\$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	11	\$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	11	\$113	\$63	\$176
			251700-4	mjp on non-suspect pipe cover	OMA			20	40	11			
			254468-4	mjp on non-suspect pipe cover	OMA			60	40	11			

PA 078733

The mudded joint packings are scattered throughout the first floor. No visible contact or water damage is present.

AREA TOTAL \$9,373 \$5,235 \$14,608

Asbestos Assessment Survey

Building Name: CARGO SERVICE BLDG
JFK AIRPORT

Building Type: CARGO

Constructed: 1963

Inspected: 08/11/88

Inspector: Doug Thomas

H-K Building #: 84

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
02	AIR INDIA	2nd Floor-Ceiling												
		office area	254470-0	drop or lay-in panel	OMG	100 sq.ft.			0					
AREA AVERAGE % ASB - 0%														
AREA TOTAL											\$0	\$0	\$0	
03	AIR INDIA	2nd Floor-Floors												
		office	254469-0	vinyl floor tile	OMZ	100 sq.ft.			10	9	IV	\$454	\$344	\$798
AREA AVERAGE % ASB - 10%														
AREA TOTAL											\$454	\$344	\$798	
The material is in good condition. The area is accessed frequently.														
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				
AREA TOTAL											\$1,021	\$567	\$1,588	
The mudded joint packings are in good condition, with little visible damage.														
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				OTHER MATERIALS					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	NICA	PER		BINDER	OTHER
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

H-K Building #: 85

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			
		boiler & switch gear	251751-5	mjp on wrapped cardboard/paper	OMA	8	4 in. O.D.	DCW	55	24	III	\$302	\$168	\$470
			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.

PA 078742

116
 316
 Asbestos Assessment Survey
 H-K Building #: 85

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

AREA #	TENANT	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
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 quantities 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	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
		\$28,490	\$20,580	\$49,070
BUILDING TOTAL		\$28,490	\$20,580	\$49,070

PA 078743

BUILDING 80
CARGO SERVICE BUILDING

PA 078746

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 and 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

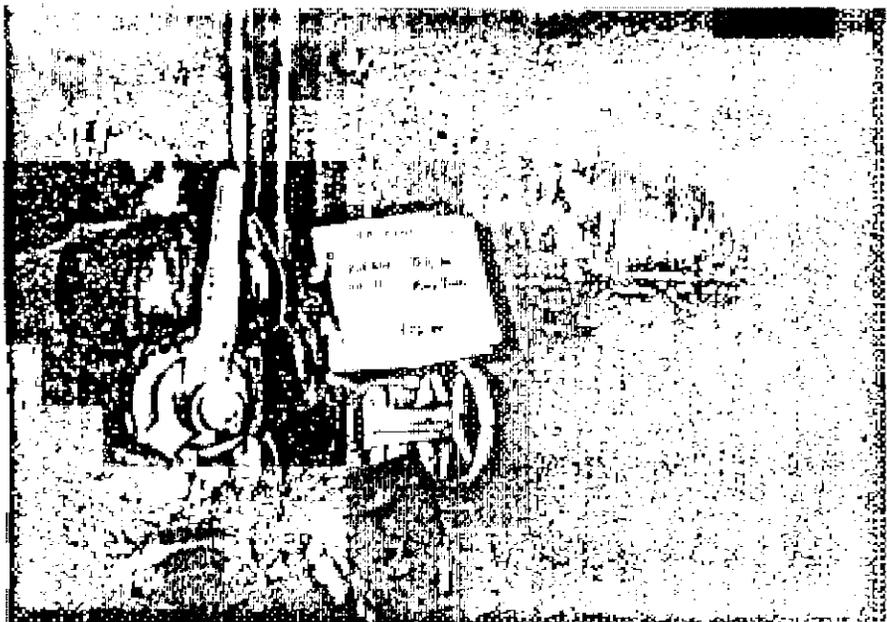
PHOTOGRAPH LOG
BUILDING 80 - CARGO SERVICE BUILDING

<u>Picture #</u>	<u>Description</u>
1	East Penthouse.
2	West Penthouse.
3	Mechanical Room.
4	Mechanical Room.

PA 078751

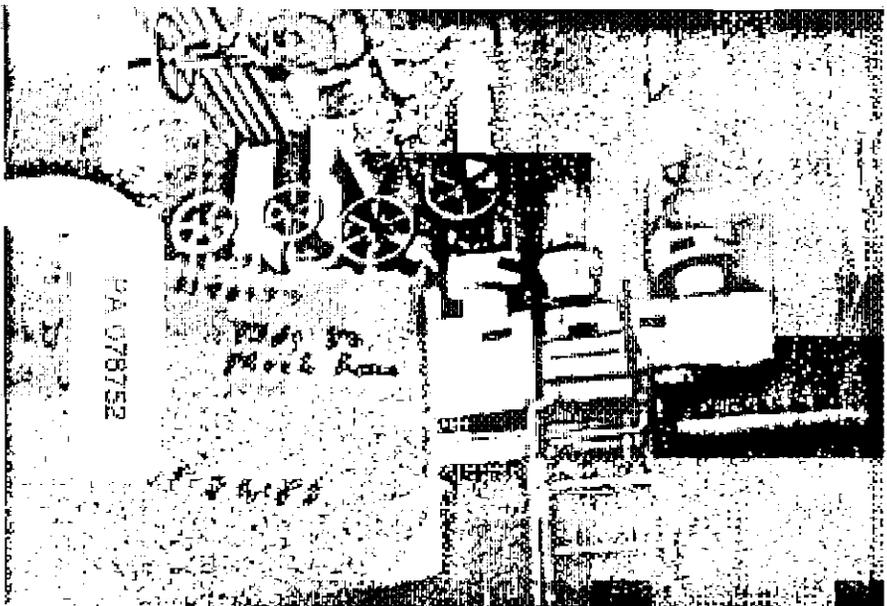
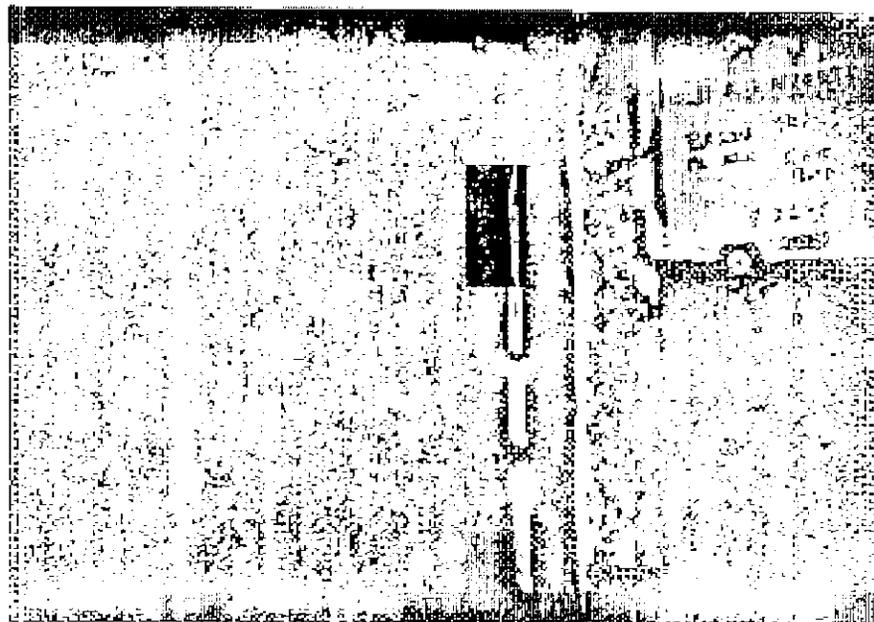
C-LINE #52584
35MM PRINTS

80



1

3



2

4



KALL-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				OTHER MATERIALS					TOTAL				
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	NICA	PER		BINDER	OTHER		
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 GN	CAL	47	100	
20 -187204	Y	Y	32	30	2							10	10 GN	CAL	48	100	
20 -187205	Y	Y	35	35								20	10 GN			100	
21 -187206	Y	Y	3	3							35	27	10 GN			100	
21 -187207	Y	Y	28	28									10 GN	CAL	62	100	
21 -187208	Y	Y	30	30									10 GN	CAL	60	100	
0 -187209	N	Y	6	6									20 GN	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	GN	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	H	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-KIMBELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

SAMPLE NUMBER	HOMO	ASS/PRES	TOTAL ASS	ASBESTOS			WOOD	CEL	MICA	OTHER MATERIALS			TOTAL
				CHRY	ANO	CRO				ANT	TRE	GN	
28-295299	N	Y	30	30						70	10 GN	TA	100
28-295300	N	Y	25	25						30	66 CA	65	100
0-329064	N	Y	4	4						20			100
22-329065	Y	N	0	0						20			100
22-329066	Y	N	0	0						20			100
22-329067	Y	N	0	0						20			100
0-329068	N	Y	3	3						30	67 CA		100
0-329069	N	Y	2	2						20	78 CA		100
0-329070	N	Y	0	0						30	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	N	Y	0	0						10			100
23-329074	Y	N	0	0						10			100
23-329075	Y	N	0	0						15			100
0-329076	N	Y	8	8						30	62 CA		100
0-329077	N	Y	0	0						30	70 CA		100
0-329078	N	Y	2	2						30	68 CA		100
0-329079	N	Y	0	0						30	60 CA		100
24-329080	N	Y	0	0						30	68 CA		100
24-329081	Y	N	0	0						30	70 CA		100
24-329082	Y	N	0	0						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	Y	0	0						30	70 CA		100
25-329086	Y	N	0	0						30			100
25-329087	Y	N	0	0						30			100
25-329088	Y	N	0	0						30			100
0-329089	N	Y	0	0						30	60 CA		100
0-329090	N	Y	2	2						38	60 CA		100
0-329091	N	Y	0	0						35	70 CA		100
0-329092	N	Y	0	0						20	65 CA		100
26-329093	Y	N	0	0						20			100
26-329094	Y	N	0	0						20			100
26-329095	Y	N	0	0						20			100
0-329096	N	Y	0	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	N	Y	15	15						20	10 GN	TA	100
27-379378	Y	Y	15	15						10	40 TA		100
27-379379	Y	Y	15	15						10	40 TA		100
28-379399	N	Y	20	20						10	70 TA		100
0-HK5905	H	N	0	0						42	50 CA		100

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: N70277
JFK INTERNATIONAL AIRPORT
BUILDING: 080

202

AREA TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT 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

PA 078755

Asbestos Assessment Survey

H-K Building #: 080

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&H 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

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.

AREA TOTAL \$48,608 \$0 \$48,608

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

PA 078756

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 080

Building Number: 080

Page 3

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	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
AREA TOTAL										\$47,379	\$0	\$47,379

The material is in good condition.

PA 078757

Asbestos Assessment Survey

Building Name: CARGO SERVICE BUILDING
JFK AIRPORT

Building Type: OFFICES

Constructed: 1956

Inspected: 01/09/89

Inspector: L. Bennett

H-K Building #: 080

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&M CODE	UNIT OF QUANT 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		

PA 078758

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 080

Building Number: 080

Page 5

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

Asbestos Assessment Survey

Building Name: CARGO SERVICE BUILDING

JFK AIRPORT

Building Type: OFFICES

Constructed: 1956

Inspected: 01/09/89

Inspector: L. Bennett

H-K Building #: 080

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

080

PA 078760

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

N-K Building #: 080

Building Number: 080

Page 7

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	QEM CODE	UNIT OF QUANT 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 % ASD - 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 28 111		\$2,344		\$2,344
			187992-16	wrapped cardboard/paper pipe	OMA			10 28 111				\$0
			187993-16	wrapped cardboard/paper pipe	OMA			10 28 111				\$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 28 111		\$381		\$381
			187202-19	pipe covering	OMA			70 28 111				\$0
			188000-19	pipe covering	OMA			50 28 111				\$0
	east penthouse-in front of door		187203-20	mjp on pipe covering	OMA	20 8 in. O.D.	CWS/R	33 28 111		\$1,295		\$1,295
			187204-20	mjp on pipe covering	OMA			32 28 111				\$0
			187205-20	mjp on pipe covering	OMA			35 28 111				\$0
	east penthouse		187206-21	mjp on non-suspect pipe cover	OMA	14 4 in. O.D.	DW	3 28 111		\$529		\$529

PA 078761

Asbestos Assessment Survey

Building Name: CARGO SERVICE BUILDING

JFK AIRPORT

Building Type: OFFICES

Constructed: 1956

Inspected: 01/09/89

Inspector: L. Bennett

H-K Building #: 080

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	OHA	8	6 in. O.D.	DW	3	28	III	\$416		\$416	
		east penthouse	187206-21	mjp on non-suspect pipe cover	OHA	23	10 in. O.D.	DW	3	28	III	\$1,937		\$1,937	
			187207-21	mjp on non-suspect pipe cover	OHA				28	28	III			\$0	
			187208-21	mjp on non-suspect pipe cover	OHA				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	OHB	435	sq.ft.		15	56	II	\$13,998		\$13,998	
			379378-27	exterior duct insulation	OHB				15	56	II			\$0	
			379379-27	exterior duct insulation	OHB				15	56	II			\$0	
		near the roof exit	295299-28	tar paper insulation	OHZ	34	ft. 6 in. O.D.	HWS/R	30	56	II	\$594		\$594	
			295300-28	tar paper insulation	OHZ				25	56	II			\$0	
			379399-28	tar paper insulation	OHZ				20	56	II			\$0	
The materials are in fair condition. At a minimum, it is recommended that the materials be repaired. If removal 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

PA 078762

**BUILDING 81
CARGO BUILDING**

PA 078767

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. 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 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

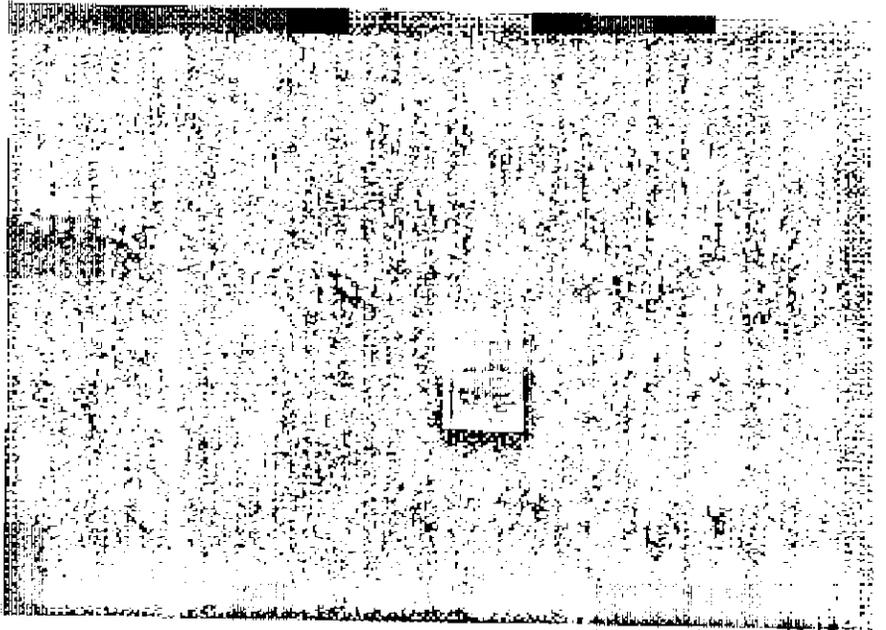
PA 078771

PHOTOGRAPH LOG
BUILDING 81 - CARGO BUILDING

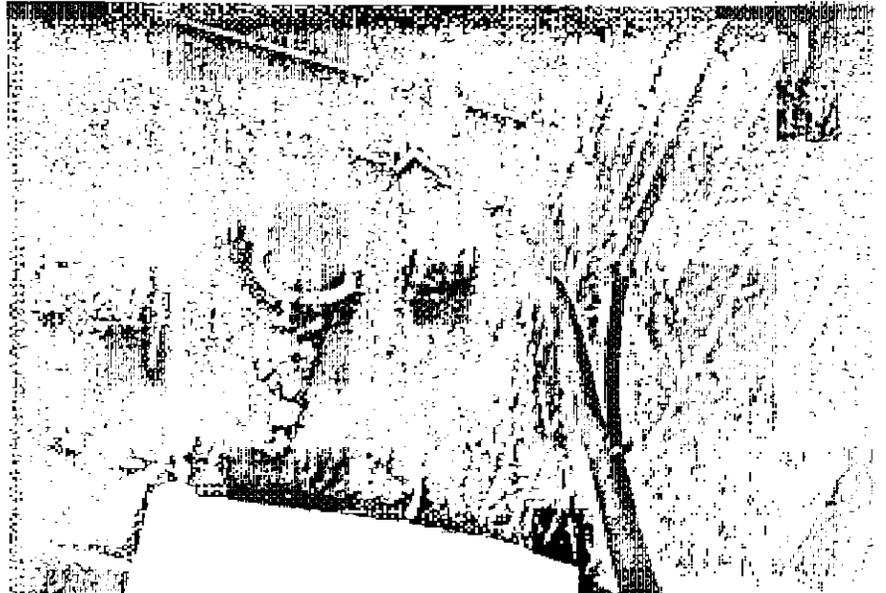
<u>Picture #</u>	<u>Description</u>
1	West Warehouse, damaged wall material.
2	West Warehouse, space heater, exhaust pipe insulation.

PA 078772

C-LINE #52584
35MM PRINTS



1



2

PA 078773

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: W70277 JFK INTERNATIONAL AIRPORT

BUILDING: 081

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS					OTHER MATERIALS					TOTAL			
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER		
0 -187212	N	H	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		25 GM			100
4 -221388	Y	Y	10	10						5		40		25 GM			100
4 -221389	Y	Y	8	8						5		45		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 GM			100
4 -379359	Y	N	0									10		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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&M CODE	UNIT OF QUANT 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	CM2	4000 sq.ft.		0					\$0	
		break room area	379356-0	vinyl floor tile	CM2	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	CMG	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	QMA	2 ft. 8 in. O.D.	DR	15	58	11	\$38		\$38	
		west ceiling area	187789-3	mjp on corrugate pipe covering	QMA	2 8 in. O.D.	DR	6	58	11	\$130		\$130	
			187790-3	mjp on corrugate pipe covering	QMA			20	58	11			\$0	
			187791-3	mjp on corrugate pipe covering	QMA			20	58	11			\$0	

PA 078775

Asbestos Assessment Survey

Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 04/20/88
 Inspector: Robert Couch

H-K Building #: 18

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
<p>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.</p>											AREA TOTAL	\$168	\$0	\$168
TENANT - DHL											TOTAL	\$168	\$0	\$168

282

PA 078776

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081

Page 3

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	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	DMG	600 sq.ft.			0			\$0
								AREA TOTAL		\$0	\$0	\$0
								TENANT - N.Y.C.C.	TOTAL	\$0	\$0	\$0

PA 078777

Asbestos Assessment Survey

Building Name: CARGO BUILDING

JFK AIRPORT

Building Type: CARGO

Constructed: 1956

Inspected: 04/20/88

Inspector: Robert Couch

H-K Building #: 18

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&M CODE	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

AREA #	TENANT	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&M CODE	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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

PA 078778

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	
<p>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.</p>												AREA TOTAL	\$13,919	\$0	\$13,919
												TENANT - NYCC/OGDEN ALLI TOTAL	\$15,631	\$0	\$15,631

PA 078779

Asbestos Assessment Survey

Building Name: CARGO BUILDING
JFK AIRPORT

Building Type: CARGO

Constructed: 1956

Inspected: 04/20/88

Inspector: Robert Couch

H-K Building #: 18

AREA TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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 material be maintained and monitored. If removal is planned, extensive gross removal procedures are recommended.

TENANT - U. S. CUSTOMS TOTAL \$2,270 \$0 \$2,270

ore

PA 078780

Asbestos Assessment Survey

H-K Building #: 18

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	QUANT 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		

Asbestos Assessment Survey

Building Name: CARGO BUILDING

JFK AIRPORT

Building Type: CARGO

Constructed: 1956

Inspected: 04/20/88

Inspector: Robert Couch

H-K Building #: 18

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	11	\$152	\$152
at ceiling-in hallway between offices	379366-0	corrugated pipe covering	OMA	43 ft. 4 in. O.D.	DW	2	45	11	\$516	\$516
above the center office areas	379366-0	corrugated pipe covering	OMA	100 ft. 4 in. O.D.	DW	2	45	11	\$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	11	\$924	\$924
along the north wall-at ceiling	379370-0	wrapped cardboard/paper pipe	OMA	220 ft. 4 in. O.D.	DW	30	45	11	\$2,640	\$2,640
north & central ceiling	187789-3	mjp on corrugate pipe covering	OMA	8 8 in. O.D.	DR	6	45	11	\$518	\$518
	187790-3	mjp on corrugate pipe covering	OMA			20	45	11		\$0
	187791-3	mjp on corrugate pipe covering	OMA			20	45	11		\$0
at ceiling-in hallway between offices	379367-6	mjp on corrugate pipe covering	OMA	11 4 in. O.D.	DW	40	45	11	\$416	\$416
	379368-6	mjp on corrugate pipe covering	OMA			40	45	11		\$0
	379369-6	mjp on corrugate pipe covering	OMA			40	45	11		\$0
along the north wall-at ceiling	379371-7	mjp on pipe covering	OMA	10 4 in. O.D.	DW	30	45	11	\$378	\$378
north center area of warehouse	379371-7	mjp on pipe covering	OMA	5 4 in. O.D.	DW	30	45	11	\$189	\$189
	379372-7	mjp on pipe covering	OMA			30	45	11		\$0
	379373-7	mjp on pipe covering	OMA			30	45	11		\$0

PA 078782

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	DMG	85 sq.ft.			0					\$0	
		women's restroom	379363-0	drop or lay-in panel	DMG	90 sq.ft.			0					\$0	
		center office area	379364-0	drop or lay-in panel	DMG	2220 sq.ft.			0					\$0	
		north office area	379365-0	drop or lay-in panel	DMG	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	11	\$262		\$262	
		Janitors' closet	379371-7	mjp on wrapped cardboard/paper	OMA	7 6 in. O.D.	DW		30	56	11	\$364		\$364	
			379372-7	mjp on wrapped cardboard/paper	OMA				30	56	11			\$0	
			379373-7	mjp on wrapped cardboard/paper	OMA				30	56	11			\$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	

H&E
 Asbestos Assessment Survey

H-K Building #: 18

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
		center office-wall area	379359-4	hard wall/ceiling plaster	OMD				0					\$0
			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-belge	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

PA 078784

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 18

Building Number: 081

Page 11

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**

PA 078788

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, IIS 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

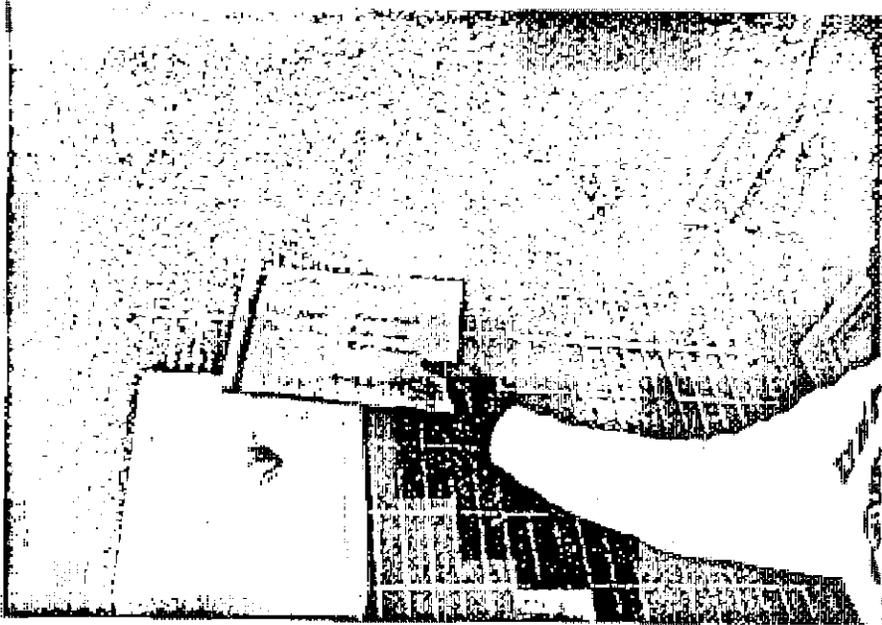
PHOTOGRAPH LOG
BUILDING 82 - CARGO BUILDING

<u>Picture #</u>	<u>Description</u>
1	Evergreen Airlines, fireproofing.
2	Aeromar Airlines, exhaust stack.
3	Aeromar Airlines, restroom, water lines.
4	U. S. Air, water heater lines.

PA 078792

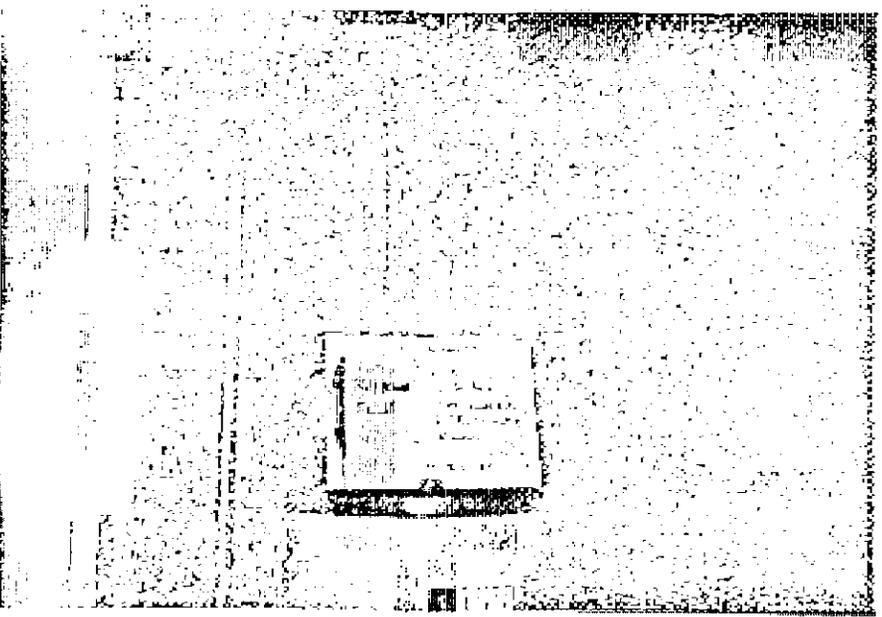
C-LINE #52584
35MM PRINTS

82



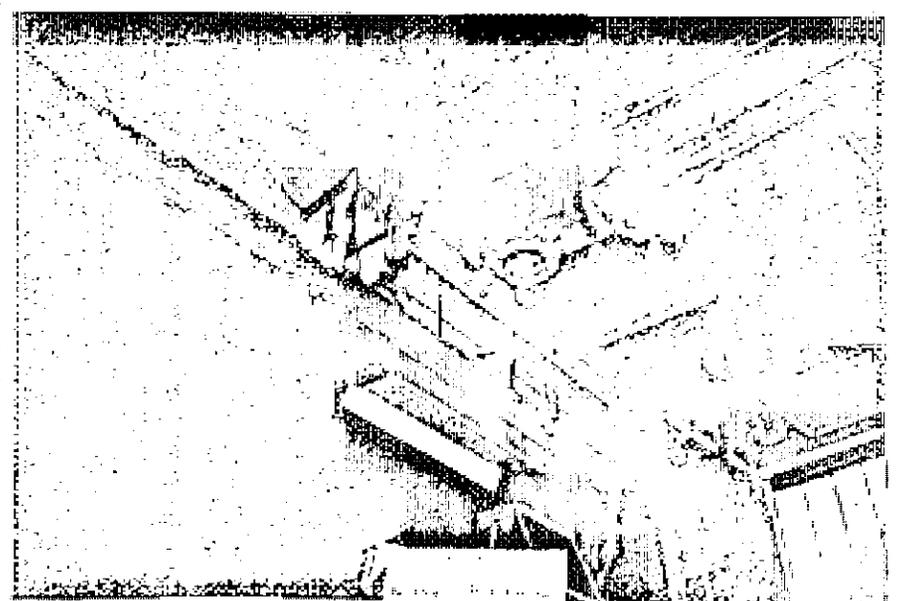
1

3



2

4



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	CHRY	ASBESTOS				OTHER MATERIALS					TOTAL	
					AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER
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 GH	100
2 -221391	Y	Y	55	55									30	15 GH	100
2 -221392	Y	Y	60	60									25	15 GH	100

H-K Building #: 19

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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	11	\$480		\$480	
		offices-throughout	187905-0	wrapped cardboard/paper pipe	OMA	40 ft. 4 in. O.D.	DHW	70	54	11	\$480		\$480	
		offices-throughout	187901-1	mjp on wrapped cardboard/paper	OMA	20 4 in. O.D.	DCW	25	54	11	\$756		\$756	
			187902-1	mjp on wrapped cardboard/paper	OMA			35	54	11				
			187903-1	mjp on wrapped cardboard/paper	OMA			30	54	11				
		offices-throughout	187906-2	mjp on wrapped cardboard/paper	OMA	20 4 in. O.D.	DHW	40	54	11	\$756		\$756	
			187907-2	mjp on wrapped cardboard/paper	OMA			40	54	11				
			187908-2	mjp on wrapped cardboard/paper	OMA			35	54	11				
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 TOTAL	\$2,472	\$0	\$2,472
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	111	\$1,309		\$1,309	
		throughout-along ceiling area	187922-5	mjp on corrugate pipe covering	OMA	8 6 in. O.D.	DR	25	24	111	\$416		\$416	
			187923-5	mjp on corrugate pipe covering	OMA			40	24	111				
			187924-5	mjp on corrugate pipe covering	OMA			35	24	111				
The pipe insulation is encased in a metal jacket and in good condition.											AREA TOTAL	\$1,725	\$0	\$1,725
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

Asbestos Assessment Survey

Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 04/20/88
 Inspector: BOB DAVIS

H-K Building #: 19

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 - AEROMAR AIR											TOTAL	\$4,197	\$0	\$4,197

PA 078796

H-K Building #: 19

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.									
												AREA TOTAL	\$0	\$0	\$0

PA 078797

Building Number: 082
 Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 04/20/88
 Inspector: BOB DAVIS

Asbestos Assessment Survey

Handwritten initials

H-K Building #: 19

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&H 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

PA 078798

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

Building Number: 082
 Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 04/20/88
 Inspector: BOB DAVIS

Page 5

H-K Building #: 19

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	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

PA 078799

Asbestos Assessment Survey

19

H-K Building #: 19

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&N 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

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		
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	111	\$1,968		\$1,968		
		above drop ceiling-throughout	187938-0	wrapped cardboard/paper pipe	OMA	100 ft. 4 in.	O.D.	DHW	10	25	111	\$1,200		\$1,200		
		above drop ceiling-throughout	187931-7	mjp on wrapped cardboard/paper	OMA	25 4 in.	O.D.	DCW	30	25	111	\$945		\$945		
			187932-7	mjp on wrapped cardboard/paper	OMA				35	25	111					
			187933-7	mjp on wrapped cardboard/paper	OMA				30	25	111					
		above drop ceiling-throughout	187934-8	mjp on wrapped cardboard/paper	OMA	16 4 in.	O.D.	DHW	40	25	111	\$605		\$605		
			187935-8	mjp on wrapped cardboard/paper	OMA				25	25	111					
			187936-8	mjp on wrapped cardboard/paper	OMA				27	25	111					
		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	111	\$438		\$438		
		throughout	187931-7	mjp on wrapped cardboard/paper	OMA	16 4 in.	O.D.	DCW	30	22	111	\$605		\$605		
			187932-7	mjp on wrapped cardboard/paper	OMA				35	22	111					
			187933-7	mjp on wrapped cardboard/paper	OMA				30	22	111					
		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

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				
												AREA TOTAL	\$6,482	\$0	\$6,482

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.

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				
												AREA TOTAL	\$8,846	\$0	\$8,846

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.

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				
												AREA TOTAL	\$11,870	\$0	\$11,870

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.

Asbestos Assessment Survey

Building Number: 082
 Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 04/20/88
 Inspector: BOB DAVIS

H-K Building #: 19

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&N 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	

PA 078804

BUILDING 83
AIR FRANCE CARGO BUILDING

PA 078806

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
--	-----------

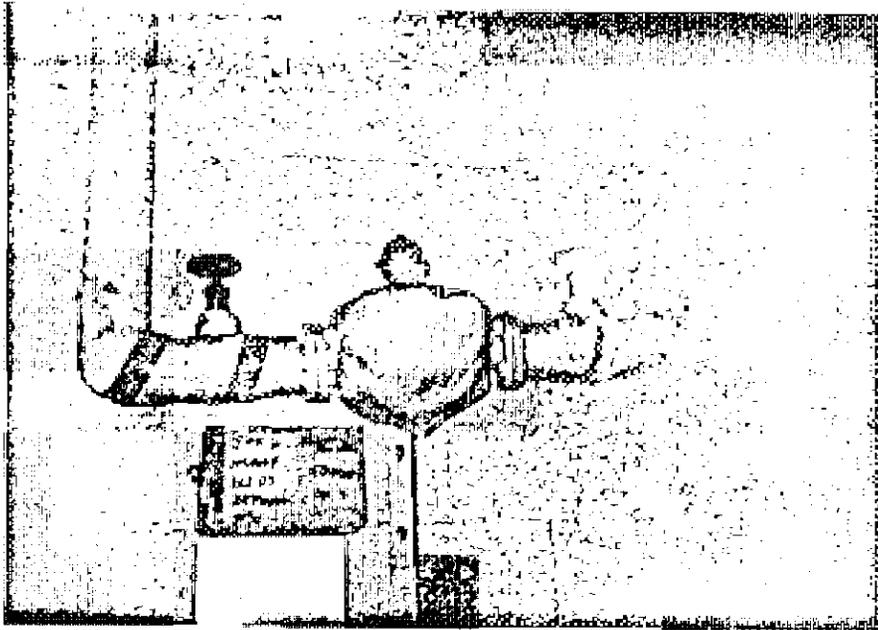
PA 078810

PHOTOGRAPH LOG
BUILDING 83 - EL AL CARGO BUILDING

<u>Picture #</u>	<u>Description</u>
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.

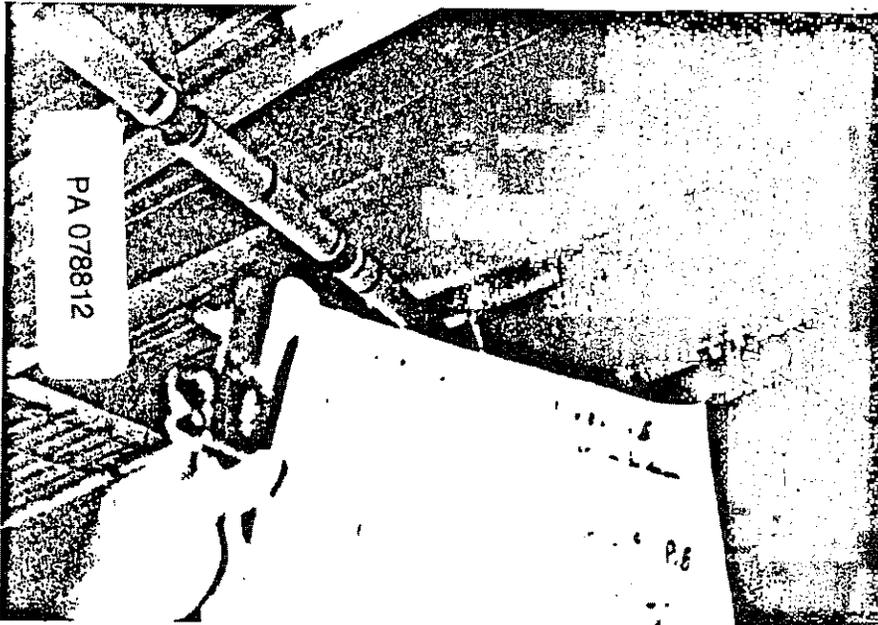
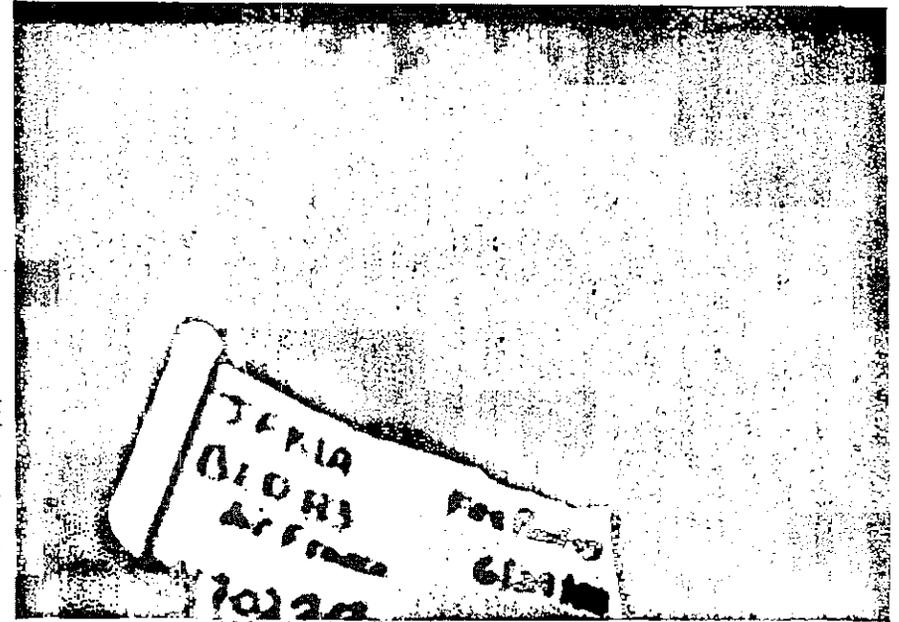
PA 078811

C-LINE #52584
35MM PRINTS



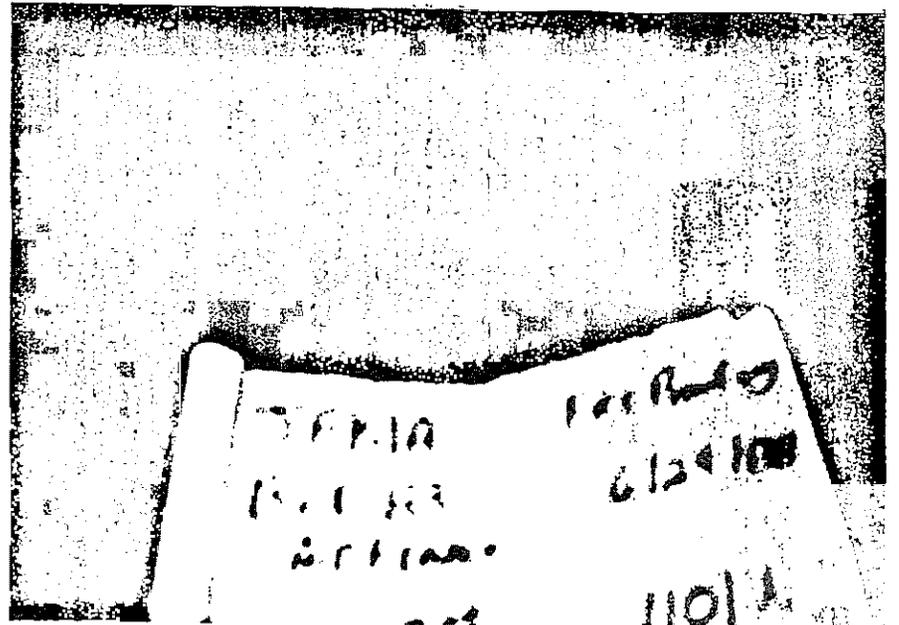
1

3



2

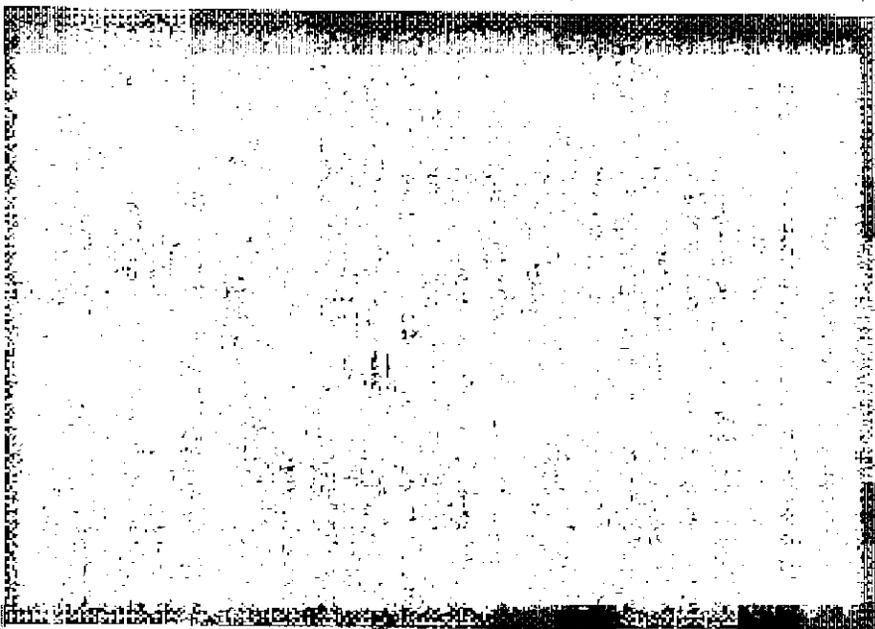
4



C-LINE #52584
35MM PRINTS



5



PA 078813

HALL-KIRBELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: W70277 JFK INTERNATIONAL AIRPORT

BUILDING: 083

SAMPLE NUMBER	HOWO	ASB/PRES	TOTAL ASB	ASBESTOS			OTHER MATERIALS			TOTAL					
				CHRY	AMO	CRO	ANT	TRE	WOOL		CEL	MICA	PER	BINDER	OTHER
1 -224467	Y	M	0												100
1 -224468	Y	M	0												100
1 -224469	Y	M	0												100
1 -224470	Y	M	0												100
1 -224471	Y	M	0												100
1 -224472	Y	M	0												100
1 -224473	Y	M	0												100
1 -224474	Y	M	0												100
1 -224475	Y	M	0												100
2 -224476	Y	Y	20	20											100
2 -224477	Y	Y	20	20											100
2 -224478	Y	Y	20	20											100
2 -224479	Y	M	0												100
0 -224480	M	M	0												100
0 -224481	M	M	0												100
3 -224482	Y	M	0												100
3 -224483	Y	M	0												100
3 -224484	Y	M	0												100
3 -224485	Y	M	0												100
4 -224486	Y	Y	10	10											100
4 -224487	Y	Y	20	20											100
5 -224488	Y	Y	20	20											100
5 -224489	Y	Y	30	30											100
5 -224490	Y	Y	40	40											100
5 -224491	Y	Y	25	25											100
6 -224492	Y	Y	25	25											100
6 -224493	Y	Y	20	20											100
7 -224494	Y	Y	30	30											100
7 -224495	Y	Y	40	40											100
7 -224496	Y	Y	40	40											100
8 -224497	Y	N	0												100
8 -224498	Y	M	0												100
8 -224499	Y	M	0												100
8 -224500	M	M	0												100
0 -226277	M	M	85	3	85										100
11 -226278	Y	Y	0												100
11 -226279	Y	N	0												100
11 -226280	Y	Y	2	2											100
9 -226281	Y	Y	6	6											100
9 -226282	Y	Y	5	5											100
9 -226283	Y	Y	5	5											100
9 -226284	Y	Y	6	6											100
9 -226285	Y	Y	6	6											100
9 -226286	Y	Y	40	40											100
10 -226287	Y	Y	40	40											100
10 -226288	Y	Y	40	40											100
0 -226289	M	M	0												100
0 -226290	M	M	0												100
0 -226291	M	M	0												100
9 -226292	Y	Y	10	10											100
9 -226293	Y	Y	6	6											100
9 -226294	Y	Y	10	10											100
9 -226295	Y	Y	10	10											100
9 -226296	Y	Y	6	6											100
9 -226297	Y	Y	10	10											100
9 -226298	Y	Y	10	10											100
9 -226299	Y	Y	10	10											100
9 -226300	Y	Y	10	10											100

PA 078814

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 54

Building Number: 083 Page 1
 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

Asbestos Assessment Survey

H-K Building #: 54

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	AREA AVERAGE % ASB - 37%										
06	AIR FRANCE	1st Floor-Ventilation Pipes											

PA 078816

ent

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	11	\$1,320	\$1,044	\$2,364	
			224495-7	pipe covering	OMA				40	50	11				
			224496-7	pipe covering	OMA				40	50	11				
		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	111	\$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	1V	\$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

Asbestos Assessment Survey

H-K Building #: 54

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	1		
			226295-9	fireproofing	OMC				10	69	1		
			226296-9	fireproofing	OMC				6	69	1		
			226297-9	fireproofing	OMC				10	69	1		
			226298-9	fireproofing	OMC				10	69	1		
			226299-9	fireproofing	OMC				10	69	1		
			226300-9	fireproofing	OMC				10	69	1		

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

PA 078818

H-K Building #: 54

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

260

Asbestos Assessment Survey

H-K Building #: 54

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.	DCU		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.	DCM		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			

PA 078820

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

PA 078821

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Building Number: 083 Page 8

Asbestos Assessment Survey

Building Name: AIR FRANCE CARGO BUILDING
JFK AIRPORT

Building Type: CARGO

Constructed: 1956

Inspected: 06/28/88

Inspector: D. Thomas

H-K Building #: 54

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 - EL AL	TOTAL	\$6,016	\$4,404	\$10,420

PA 078822

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	Q&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				
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.												AREA TOTAL	\$4,937	\$3,950	\$8,887

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

PA 078826

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	A S B E S T O S					O T H E R M A T E R I A L S					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER
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

Building Number: 084
 Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 06/27/88
 Inspector: J. S. Lanan

Page 1

H-K Building #: 44

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OSM 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

PA 078831

Asbestos Assessment Survey

H-K Building #: 44

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. Lenan

Page 3

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	DMC				0						
			221240-10	fireproofing	DMC				0						
AREA TOTAL												\$0	\$0	\$0	
08	AER CARGO	Office Area-Floor	AREA AVERAGE % ASB - 0%												
	throughout		221220-0	vinyl floor tile	DMZ	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	DMG	2700	sq.ft.		0						
AREA TOTAL												\$0	\$0	\$0	
TENANT - AER CARGO												TOTAL	\$6,317	\$4,558	\$10,875

PA 078833

AS-E

Asbestos Assessment Survey

H-K Building #: 44

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			

PA 078834

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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

PA 078835

Asbestos Assessment Survey

H-K Building #: 44

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	RENOVAL 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											
This material could not be accessed for inspection. The available blueprints were incomplete, so quantities were estimated.											AREA TOTAL	\$548	\$446	\$994	
											TENANT - DELTA CARGO	TOTAL	\$17,298	\$13,140	\$30,438

PA 078836

H-K Building #: 44

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	OM2	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				

PA 078837

Asbestos Assessment Survey

H-K Building #: 44

SHC

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

PA 078838

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OSM 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

Asbestos Assessment Survey

Building Name: CARGO BUILDING
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1956
 Inspected: 06/27/88
 Inspector: J. S. Lenan

H-K Building #: 44

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	

PA 078840

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

<u>Picture #</u>	<u>Description</u>
1	Ground Floor, Mechanical Room, exposed pipe insulation.

PA 078848

PA 078849

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: 086

SAMPLE NUMBER	HONO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL			
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER	
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

H-K Building #: 57

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	
01	AIR INDIA	Flooring													
AREA AVERAGE % ASB - 4%															
		customers services office-throughout	221302-0	vinyl floor tile	OMZ	672	sq.ft.		6	6	1V	\$3,051	\$2,312	\$5,363	
		lunch room-throughout	221302-0	vinyl floor tile	OMZ	450	sq.ft.		6	6	1V	\$2,043	\$1,548	\$3,591	
		sales department-throughout	221302-0	vinyl floor tile	OMZ	1120	sq.ft.		6	6	1V	\$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

PA 078851

H-K Building #: 57

57

Building Number: 086 Page 2
 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	UNIT OF QUANT 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	OHA	17 4 in. O.D.	DW	20	24 III	\$643	\$357	\$1,000	
			221308-1	mjp on non-suspect pipe cover	OHA			20	24 III				
			221309-1	mjp on non-suspect pipe cover	OHA			20	24 III				
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 TOTAL	\$643	\$357	\$1,000
05	AIR INDIA	Rest Rooms					AREA AVERAGE % ASB - 20%						
		inside walls-leading to restroom fixture	221307-1	mjp on non-suspect pipe cover	OHA	25 4 in. O.D.	DW	20	5 IV	\$945	\$525	\$1,470	
			221308-1	mjp on non-suspect pipe cover	OHA			20	5 IV				
			221309-1	mjp on non-suspect pipe cover	OHA			20	5 IV				
The piping runs inside of concrete block walls and was inaccessible. The quantities given are estimates due to the unavailability of 'as built' drawings.										AREA TOTAL	\$945	\$525	\$1,470
TENANT - AIR INDIA										TOTAL	\$12,798	\$9,226	\$22,024

Asbestos Assessment Survey

H-K Building #: 57

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 unavailability of 'as built' drawings.											AREA TOTAL	\$454	\$252	\$706

PA 078852

932

Asbestos Assessment Survey

H-K Building #: 57

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 Page 5
 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		

PA 078853

Asbestos Assessment Survey

Building Number: 086 Page 6
 Building Name: CARGO BUILDING #86
 JFK AIRPORT
 Building Type: CARGO
 Constructed: 1961
 Inspected: 07/06/88
 Inspector: L. GIDEON

578

H-K Building #: 57

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H CODE	UNIT OF QUANT 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

PA 078857

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 is located at Ex. 4

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

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB			ASBESTOS			OTHER MATERIALS				TOTAL			
			CHRY	AMT	TRE	WOOL	CEL	MICA	PER	BINDER	OTHER					
0 -226367	N		0			30	40		10			70	CAL	GM	10	100
0 -226368	Y		6			30	40		14			20				100
0 -226369	N		0			30	40		10			20				100
5 -226370	N		0			30			50			20	GM			100
5 -226371	Y		0			30			50			20	GM			100
5 -226372	Y		0			30			40			30	GM			100
6 -226373	N		0				90		10							100
6 -226374	Y		20				70		10							100
6 -226375	Y		0			30	80		20				30	GM		100
7 -226376	N		0			30			40				30	GM		100
7 -226377	Y		0			30			40				30	GM		100
7 -226378	Y		0			30			10			20				100
8 -226379	N		0			30			20							100
8 -226380	Y		0			30	40		10				20	GM		100
8 -226381	N		0			30	40		40				20	GM		100
8 -226382	N		0			30	40		40				20	GM		100
8 -226383	Y		0			30	40		40				20	GM		100
8 -226384	Y		0			30	40		40				20	GM		100
8 -226385	Y		0			30	40		40				20	GM		100
8 -226386	Y		0			30	40		40				20	GM		100
8 -226387	Y		0			30	40		40				20	GM		100
8 -226388	N		0			30	40		40				20	GM		100
8 -226389	Y		0			30	40		40				20	GM		100
9 -226390	Y		20			30	40		40				20	GM		100
9 -226391	Y		20			30	40		40				20	GM		100
9 -226392	Y		20			30	40		40				20	GM		100
10 -226393	Y		0			40	20		40				10	GM		100
10 -226394	Y		0			40	10		40				10	GM		100
10 -226395	Y		0			50			40				10	GM		100
11 -226396	Y		0			50			40				10	GM		100
11 -226397	Y		0			50			40				10	GM		100
11 -226398	Y		0			40			50				10	GM		100
0 -226399	N		0			30	40		20			20				100
0 -226400	N		0			30	40		20			20				100

hcl

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	ORH 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-K 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.								

Asbestos Assessment Survey

Building Name: KLM-AER LINGUS CARGO
JFK AIRPORT

Building Type: CARGO

Constructed: 1962

Inspected: 06/23/88

Inspector: J. S. Lenan

H-K Building #: 49

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&N 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					
AREA TOTAL												\$4,536	\$2,520	\$7,056	
This material was inaccessible at the time of the inspection. The quantity of this material is an estimate.															
TENANT - AER LINGUS												TOTAL	\$23,109	\$16,891	\$40,000

PA 078864

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 49

Building Number: 087 Page 3
 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

PA 078865

Asbestos Assessment Survey

N-K Building #: 49

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	D&M CODE	QUANT 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

PA 078866

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 49

Building Number: 087 Page 5
 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	DGH 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	OH2	450	sq-ft.			0				
AREA TOTAL											\$0	\$0	\$0	
TENANT - OLYMPIC											TOTAL	\$0	\$0	\$0

PA 078867

Asbestos Assessment Survey

AKC

H-K Building #: 49

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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.	HMS/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

PA 078868

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												
		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												
		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												
		along south wall	226390-9	mjp on non-suspect pipe cover	OMA	20 8 in. O.D.		DW	20	56 11	\$1,295	\$761	\$2,056	

PA 078869

Asbestos Assessment Survey

Building Name: KLM-AER LINGUS CARGO
JFK AIRPORT

Building Type: CARGO

Constructed: 1962

Inspected: 06/23/88

Inspector: J. S. Lanan

SKC

H-K Building #: 49

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	
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					

PA 078871

Asbestos Assessment Survey

Handwritten: H-K

H-K Building #: 49

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	OHA				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	OHA	45 4 in. O.D.	HWS/R		0				
			226341-1	mjp on non-suspect pipe cover	OHA				0				
			226342-1	mjp on non-suspect pipe cover	OHA				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	OHA	20 4 in. O.D.	DW		0				
			226344-2	mjp on non-suspect pipe cover	OHA				0				
			226345-2	mjp on non-suspect pipe cover	OHA				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&H 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	ONG	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	ONG	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	ONC	18000	sq.ft.			0					
			226352-4	fireproofing	ONC					0					
			226353-4	fireproofing	ONC					0					
			226354-4	fireproofing	ONC					0					
			226355-4	fireproofing	ONC					0					
			226356-4	fireproofing	ONC					0					
			226357-4	fireproofing	ONC					0					
			226358-4	fireproofing	ONC					0					
			226359-4	fireproofing	ONC					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					

PA 078873

Asbestos Assessment Survey

SKC

H-K Building #: 49

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OEM 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	OHA				20	56	11			
			226392-9	mjp on non-suspect pipe cover	OHA				20	56	11			
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	ONZ	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	ONZ	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	OHG	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	OHG	3000	sq.ft.		0					
											AREA TOTAL	\$0	\$0	\$0

PA 078874

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H 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-throughtout	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					

PA 078875

Asbestos Assessment Survey

Building Name: KLM-AER LINGUS CARGO

JFK AIRPORT

Building Type: CARGO

Constructed: 1962

Inspected: 06/23/88

Inspector: J. S. Lanan

H-K Building #: 49

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.		MWS/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

FE

L-KIMBRELL ENVIRONMENTAL SERVICES, INC.

bestos Assessment Survey

K Building #: 49

Building Number: 087 Page 14
 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

42	KLM CARGO	2nd Floor-South End	AREA AVERAGE % ASB - OX										
	rest room & shower walls	226370-5	mjp on non-suspect pipe cover	OMA	100	4 in. O.D.	DW				0		
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

PA 078880

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. 7

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

KALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
 PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 88-88a

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S				TOTAL			
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA		PER	BINDER	OTHER
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		40						50	10 GM		100
6 -251655	Y	Y	40	40		40						50	10 GM		100
6 -251656	Y	Y	40	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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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 11	\$680	\$378	\$1,058	
			251797-1	mjp on non-suspect pipe cover	OMA			35	41 11				
			251798-1	mjp on non-suspect pipe cover	OMA			40	41 11				
		above boiler	251659-7	breecher/exhaust stack packing	OMB	230 sq.ft.		60	41 11	\$13,126	\$10,575	\$23,701	
			251660-7	breecher/exhaust stack packing	OMB			70	41 11				
			251661-7	breecher/exhaust stack packing	OMB			60	41 11				
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	27 111	\$833	\$489	\$1,322	
			251799-2	mjp on non-suspect pipe cover	OMA			10	27 111				
			251800-2	mjp on non-suspect pipe cover	OMA			10	27 111				
		mezzanine	251644-3	mjp on non-suspect pipe cover	OMA	12 4 in. O.D.	FA	10	27 111	\$454	\$252	\$706	
			251645-3	mjp on non-suspect pipe cover	OMA			20	27 111				
			251646-3	mjp on non-suspect pipe cover	OMA			10	27 111				
The material is found on two different levels of the mechanical room. The material is in moderate condition with 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 1V	\$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

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; Solfer 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				OTHER MATERIALS					TOTAL		
				CHRY	ARO	CRO	ANT TRE	WOOL	CEL	NICA	PER	BINDER		OTHER	
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

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 AVIATH	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 AVIATH	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

PA 078895

Asbestos Assessment Survey

OK

H-K Building #: 72

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 mudded 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.									

PA 078896

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 72

Building Number: 089 Page 3
 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.							
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

PA 078900

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	HONO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S				TOTAL						
				CHRY	AMO	CRO	ANT TRE	WOOL	CEL	NICA	PER		BINDER	OTHER				
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	

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				

Asbestos Assessment Survey

H-K Building #: 87

AREA TENDANT #	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

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

5/5

H-K Building #: 87

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

PA 078910

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

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	ASBESTOS				OTHER MATERIALS				TOTAL	
					AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER
0 -216334	N	Y	15	15					30				55 TAR	100

PA 078913

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

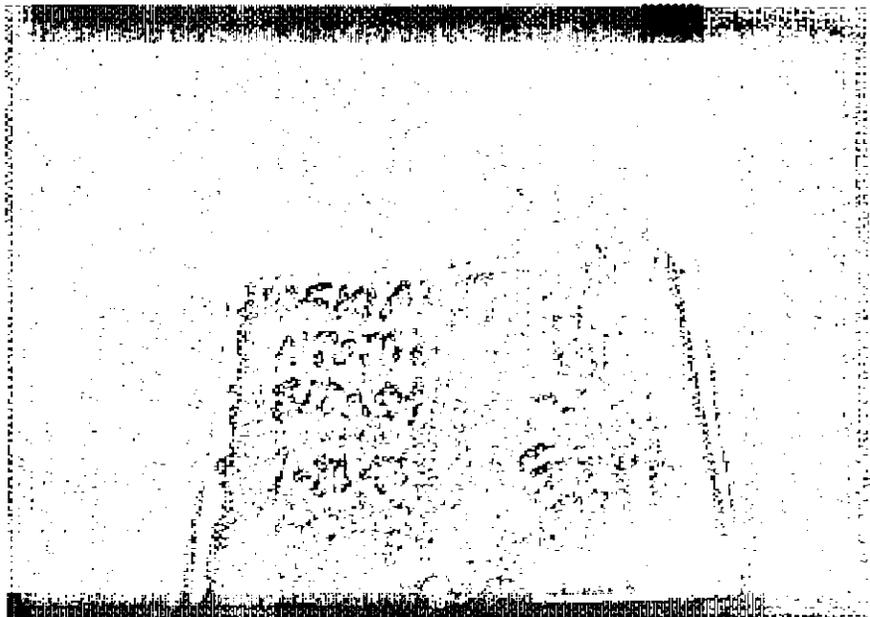
<u>Picture #</u>	<u>Description</u>
1	Damaged pipe insulation.

PA 078920

C-LINE #52584
35MM PRINTS

CPA

1



PA 078921

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					OTHER MATERIALS					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER
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

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

PA 078927

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 renovated, 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 rewinding 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

<u>Picture #</u>	<u>Description</u>
1	Flight simulator, crawl space, debris.

PA 078933

C-LINE #52584
35MM PRINTS

8/5

1



PA 078934

KALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
 PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 095

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S						TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	NICA	PER	BINDER		OTHER	
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 Page 1
 Building Name: TWA SIMULATOR/HANGER #12
 JFK AIRPORT
 Building Type: OFFICE
 Constructed: 1965
 Inspected: 07/28/88
 Inspector: Jeffrey Lanam

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 material 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 l-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

Asbestos Assessment Survey

173

H-K Building #: 73

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

PA 078937

H-K Building #: 73

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.								
												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

Asbestos Assessment Survey

RLI
 H-K Building #: 73

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	OHA	45 4 in. O.D.	HWS/R	35	20	111	\$1,701	\$945	\$2,646
around boiler & duct work	251422-6	mjp on non-suspect pipe cover	OHA	25 8 in. O.D.	HWS/R	35	20	111	\$1,619	\$952	\$2,571
	251423-6	mjp on non-suspect pipe cover	OHA			30	20	111			
	251424-6	mjp on non-suspect pipe cover	OHA			25	20	111			

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

PA 078942

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

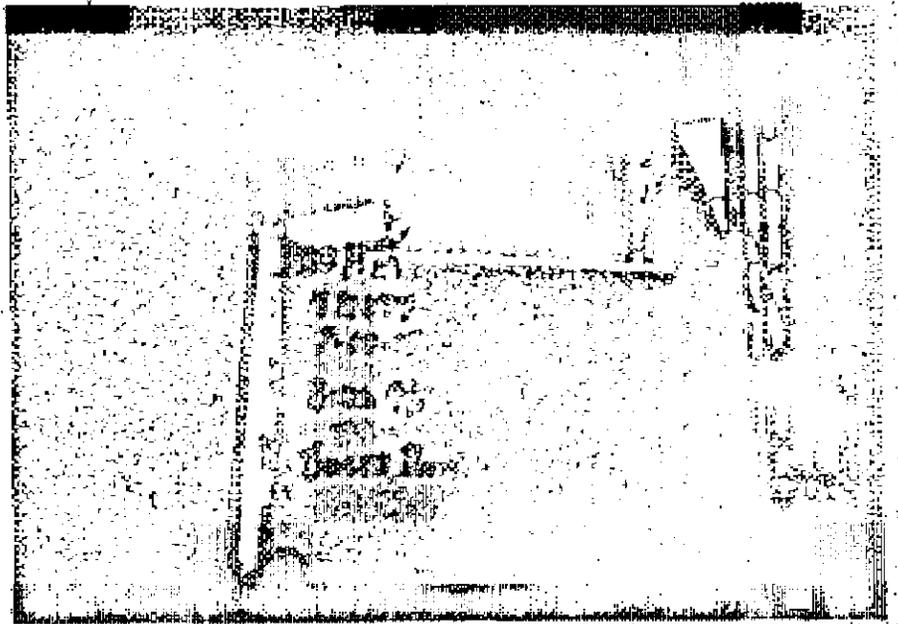
<u>Picture #</u>	<u>Description</u>
1	Boiler Room, damaged pipe insulation on domestic water piping.
2	Boiler Room, damaged pipe insulation on hot water piping.

PA 078947

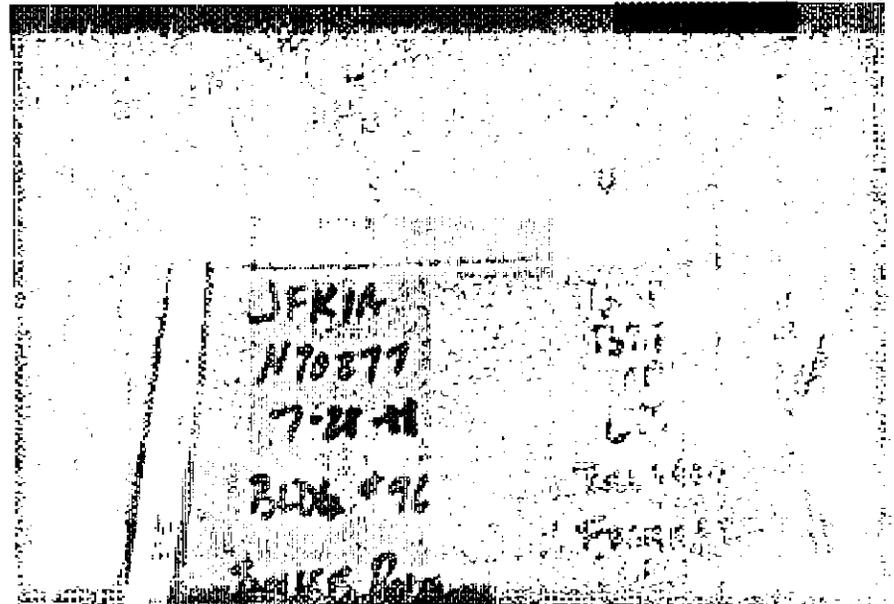
C-LINE #52584
35MM PRINTS

2

1



2



PA 078948

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
 PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 096

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER
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 Lanam

Page 1

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

891
 N-K Building #: 80

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	DEM CODE	UNIT OF QUANT 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	CMC	3000 sq.ft.		10	69 1	\$65,490	\$15,360	\$80,850	
			251279-8	fireproofing	CMC			10	69 1				
			251280-8	fireproofing	CMC			15	69 1				
			251281-8	fireproofing	CMC			10	69 1				
			251282-8	fireproofing	CMC			10	69 1				
		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 1	\$1,860	\$1,164	\$3,024	
			251261-2	wrapped cardboard/paper pipe	OMA			2	60 1				
			251262-2	wrapped cardboard/paper pipe	OMA			2	60 1				
		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				

Asbestos Assessment Survey

Building Name: TWA GARAGE

JFK AIRPORT

Building Type: SHOP

Constructed: 1965

Inspected: 07/28/88

Inspector: Jeffrey Lanau

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
---------------	---------------------------------------	---------------	-------------------------	----------	-------	-----------------	---------	-------	------------	---------------	-------------------	-------------

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

PA 078952

Asbestos Assessment Survey

Building Name: TWA GARAGE

JFK AIRPORT

Building Type: SHOP

Constructed: 1965

Inspected: 07/28/88

Inspector: Jeffrey Lanan

161

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	
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				

PA 078953

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

<u>Picture #</u>	<u>Description</u>
1	Storage Shed, stored material.

PA 078959

C-LINE #52584
35MM PRINTS

106

1



PA 078960

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
 PROJECT NO: N70277 JFK INTERNATIONAL AIRPORT

BUILDING: 106

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S				TOTAL			
				CHRY	AMO	CRD	ANT	TRE	WOOL	CEL	NICA		PER	BINDER	OTHER
0 -224079	N	Y	6	6											100
0 -224080	N	N	0											70 CAL GM 10	100
1 -226170	Y	Y	80	80					40	40				20	100
1 -226171	Y	Y	85	85										20	100
1 -226172	Y	Y	85	85										15	100
2 -226173	Y	Y	80	80										15	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	100
4 -226180	Y	N	0											80	100
4 -226181	Y	N	0											80	100
0 -226182	N	Y	40	40										20	100
														60	100

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 45

Building Number: 106 Page 1
 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													
		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													
		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													
		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-Tank													
		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

Asbestos Assessment Survey

53

H-K Building #: 45

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF QUANT 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 rarely 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	DMZ	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 \$6,360

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

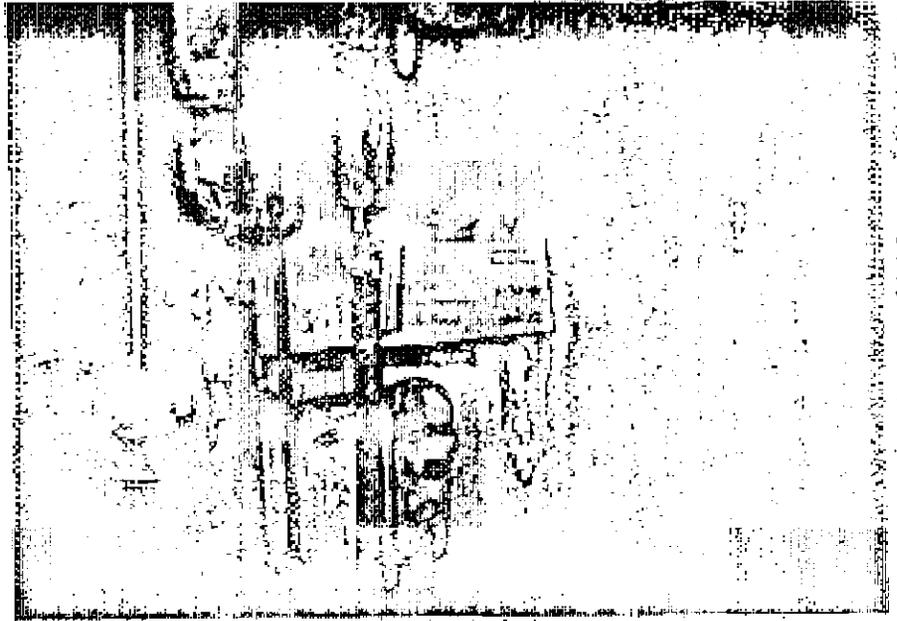
<u>Picture #</u>	<u>Description</u>
1	Boiler Room, air cell-type insulation.
2	Triangle Maintenance, exposed air cell-type insulation in restroom.

PA 078972

C-LINE #52584
35MM PRINTS

110

1



2



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	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER
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

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 55

Building Number: 110 Page 1
 Building Name: AIRLINE SERVICES
 JFK AIRPORT
 Building Type: SERVICES
 Constructed: 1949
 Inspected: 06/28/88
 Inspector: J. Worstall

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	
											TENANT - AIR FRANCE	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.

PA 078975

143
 CH

Asbestos Assessment Survey

H-K Building #: 55

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

PA 078976

Asbestos Assessment Survey

CH

H-K Building #: 55

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.	D.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	
											TEENANT - KLM CARGO	TOTAL	\$2,296	\$1,676	\$3,972

PA 078978

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

Page 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		
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

Asbestos Assessment Survey

H-K Building #: 55

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	QEM CODE	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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	QEM CODE	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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

PA 078980

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.	CCW	0						
			221426-9	mjp on non-suspect pipe cover	OMA				0						
			221427-9	mjp on non-suspect pipe cover	OMA				0						
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.												AREA TOTAL	\$20,293	\$15,799	\$36,092

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				
The material quantities were estimated, due to inaccessibility and the lack of blueprints.												AREA TOTAL	\$2,774	\$1,609	\$4,383

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

PA 078981

Asbestos Assessment Survey

H-K Building #: 55

qh1

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	OHA				30	34	III			
			221409-3	corrugated pipe covering	OHA				25	34	III			
		running to dishwasher	221410-4	mjp on corrugate pipe covering	OHA	30	4 in. O.D.	DHW	65	34	III	\$1,134	\$630	\$1,764
			221411-4	mjp on corrugate pipe covering	OHA				65	34	III			
			221412-4	mjp on corrugate pipe covering	OHA				65	34	III			
		to restrooms	221413-5	mjp on non-suspect pipe cover	OHA	15	4 in. O.D.	DHW	0					
		running to kitchen	221413-5	mjp on non-suspect pipe cover	OHA	30	4 in. O.D.	DHW	0					
			221414-5	mjp on non-suspect pipe cover	OHA				0					
			221415-5	mjp on non-suspect pipe cover	OHA				0					
		to restrooms	221416-6	wrapped cardboard/paper pipe	OHA	325	ft. 4 in. O.D.	DCW	6	34	III	\$3,900	\$2,441	\$6,361
		discontinued line	221416-6	wrapped cardboard/paper pipe	OHA	250	ft. 4 in. O.D.	DCW	6	34	III	\$3,000	\$1,878	\$4,878
			221417-6	wrapped cardboard/paper pipe	OHA				4	34	III			
			221418-6	wrapped cardboard/paper pipe	OHA				5	34	III			
		discontinued line	221419-7	mjp on wrapped cardboard/paper	OHA	20	4 in. O.D.	DCW	55	34	III	\$756	\$420	\$1,176
		to restrooms	221419-7	mjp on wrapped cardboard/paper	OHA	20	4 in. O.D.	DCW	55	34	III	\$756	\$420	\$1,176
			221420-7	mjp on wrapped cardboard/paper	OHA				60	34	III			
			221421-7	mjp on wrapped cardboard/paper	OHA				60	34	III			
		to heaters	221422-8	mjp on non-suspect pipe cover	OHA	50	4 in. O.D.	LPS/R	0					
			221423-8	mjp on non-suspect pipe cover	OHA				0					
			221424-8	mjp on non-suspect pipe cover	OHA				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

PA 078982

Asbestos Assessment Survey

H-K Building #: 55

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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

Asbestos Assessment Survey

H-K Building #: 55

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&N 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.	HMS/R	30	16	IV			\$480	\$300	\$780
	221444-15	corrugated pipe covering	OMA					IV					
	221445-15	corrugated pipe covering	OMA					IV					
to baseboard heaters-in walls	221446-16	mjp on corrugate pipe covering	OMA	10 4 in. O.D.	HMS/R	75	16	IV			\$378	\$210	\$588
	221447-16	mjp on corrugate pipe covering	OMA					IV					
	221448-16	mjp on corrugate pipe covering	OMA					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					IV					
	221451-17	corrugated pipe covering	OMA					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					IV					
	221454-18	mjp on corrugate pipe covering	OMA					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					IV					
	221458-19	corrugated pipe covering	OMA					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					IV					
	221461-20	mjp on corrugate pipe covering	OMA					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					III					
	221464-21	corrugated pipe covering	OMA					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

PA 078985

55

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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.	D.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.	D.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

PA 078986

Asbestos Assessment Survey

Building Name: AIRLINE SERVICES

JFK AIRPORT

Building Type: SERVICES

Constructed: 1949

Inspected: 06/28/88

Inspector: J. Worstall

H-K Building #: 55

131

AREA TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&H 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

PA 078987

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. 7

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

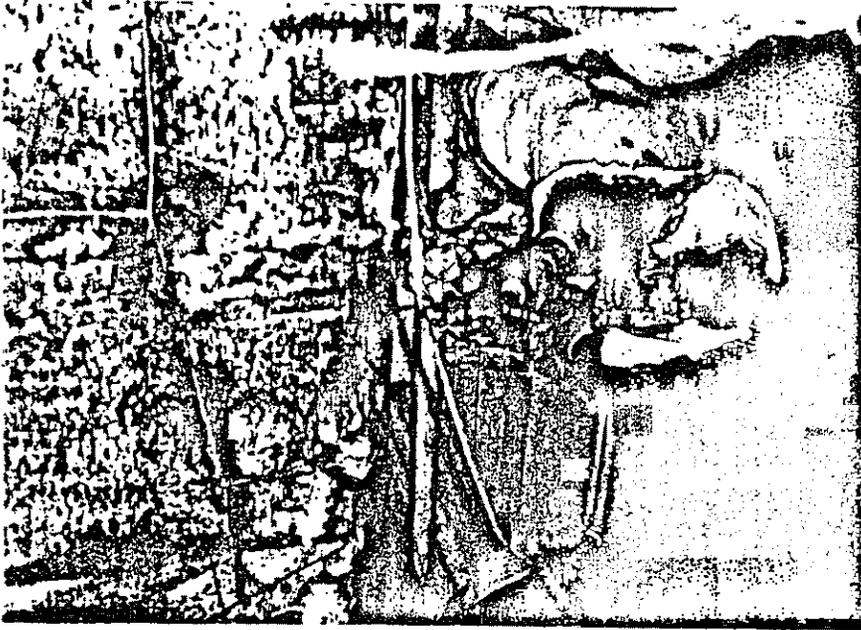
PHOTOGRAPH LOG
BUILDING 111 - FEDERAL OFFICE BUILDING

<u>Picture #</u>	<u>Description</u>
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.

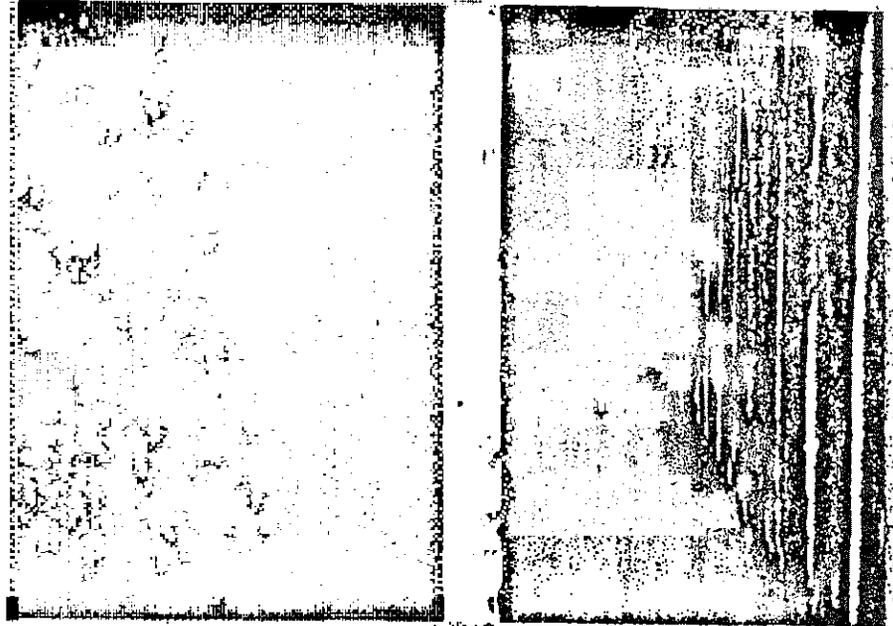
PA 078997

C-LINE #52584
35MM PRINTS

111

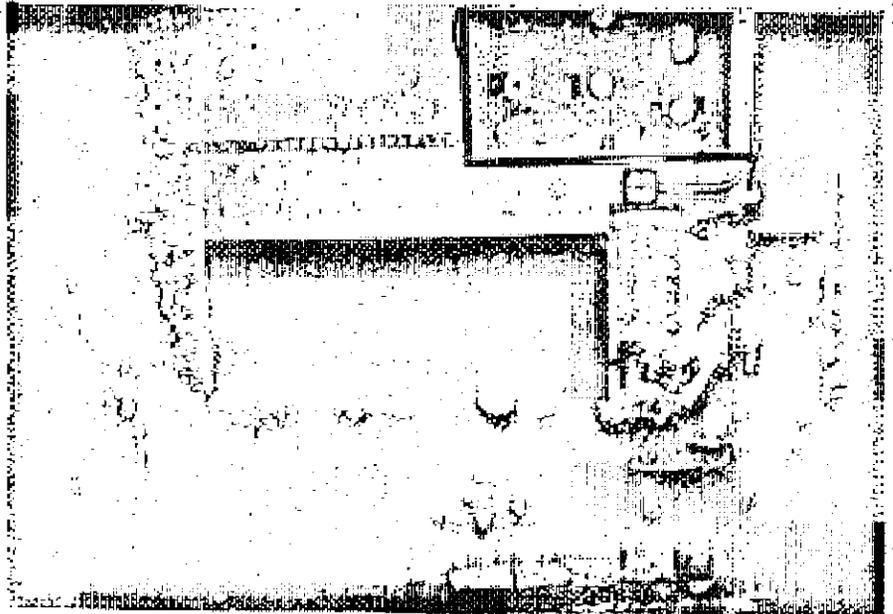


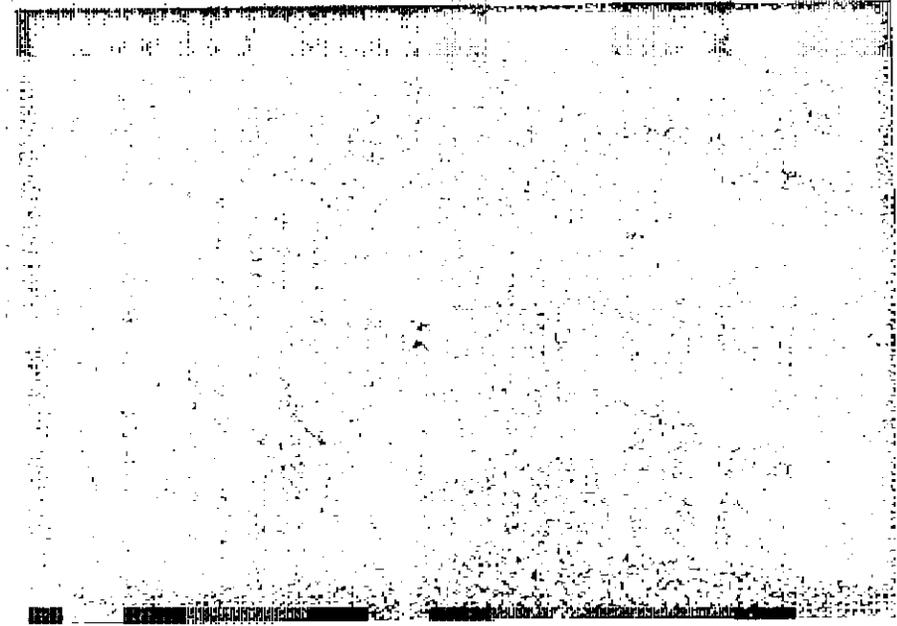
1
3



PA 078998

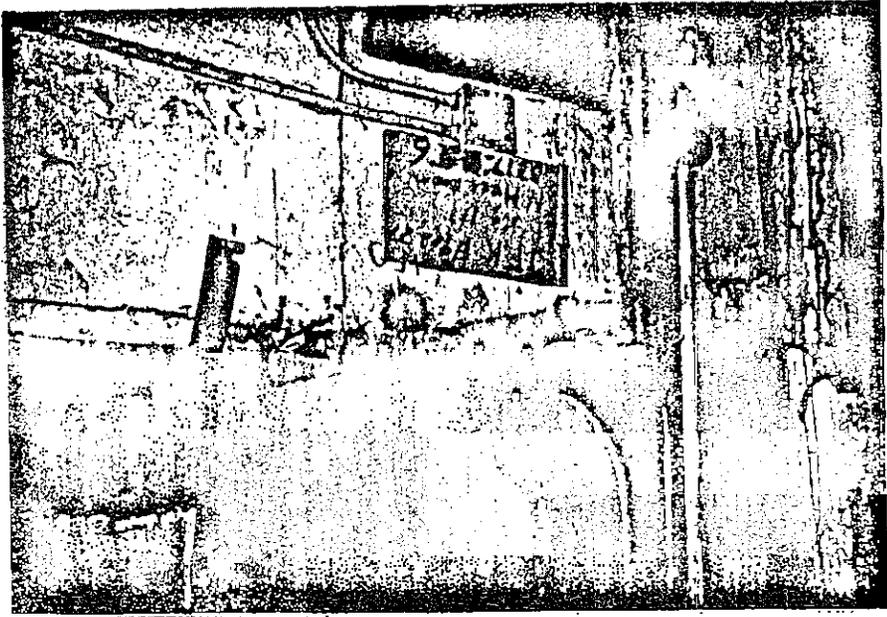
2
4





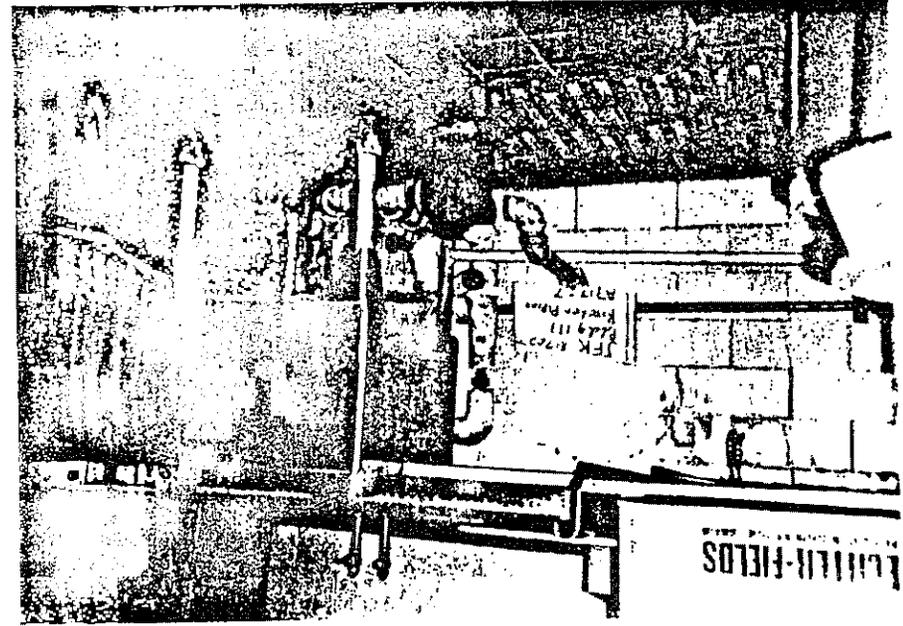
5

7

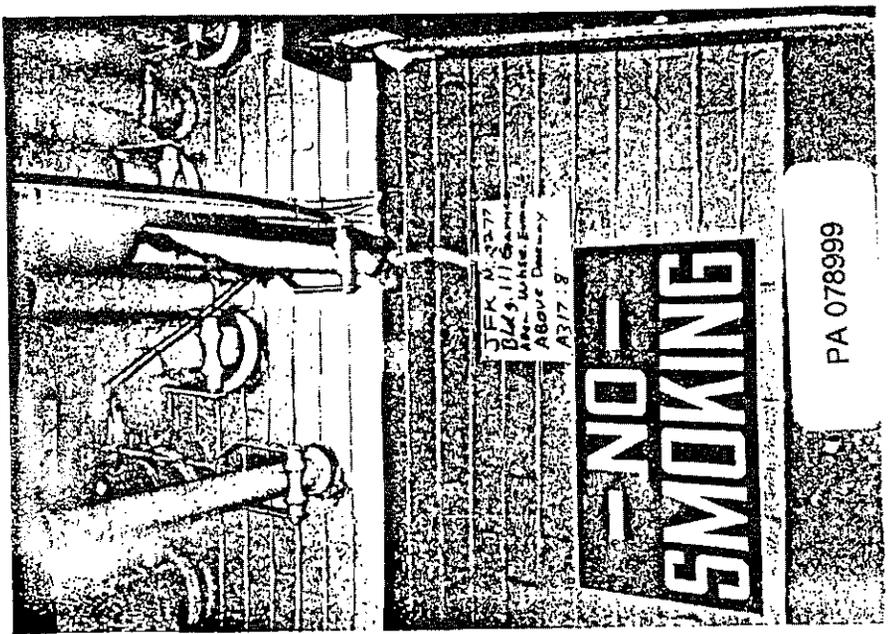


6

8



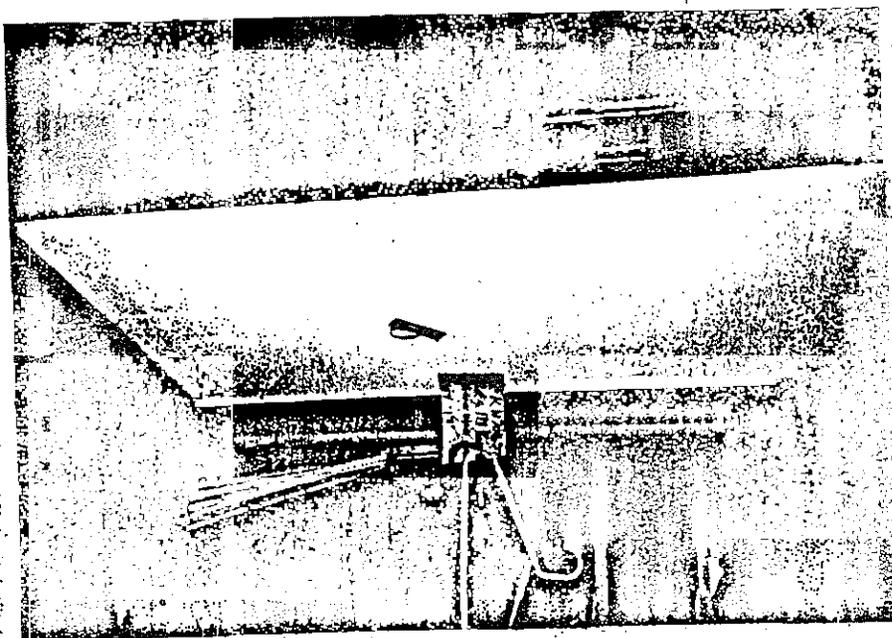
C-LINE #52584
35MM PRINTS



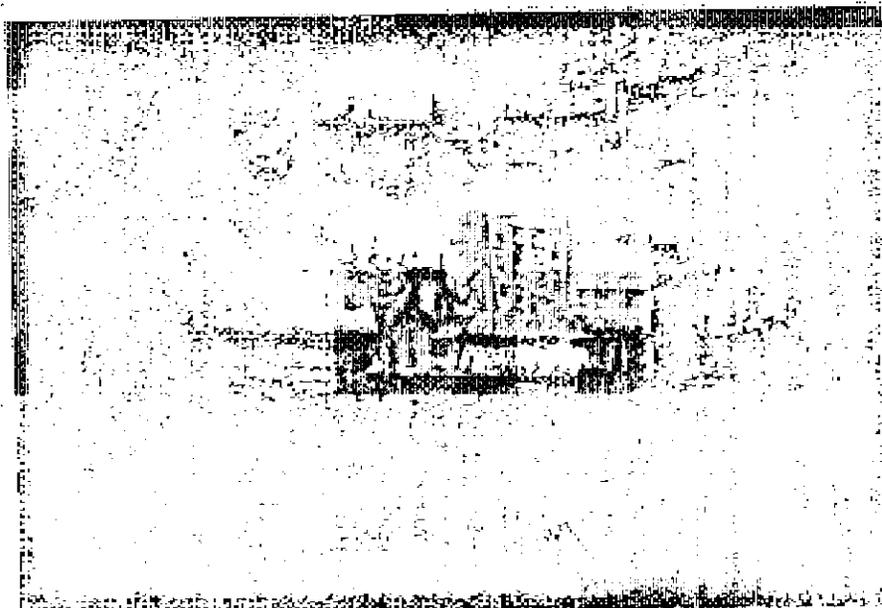
PA 078999

C-LINE #52584
35MM PRINTS

13



14



PA 079001

HALL-KINBRELL ENVIRONMENTAL SERVICES INC.
ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
PROJECT NO: H70277 JFK INTERNATIONAL AIRPORT

BUILDING: 111

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	ASBESTOS					OTHER MATERIALS					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER
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	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	H	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	H	Y	60	60						30		10			100
8 -212228	Y	H	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	150
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	100
19 -212265	Y	Y	70	70								10	10	O GM	100
0 -212266	N	N	0							60		10	30	O	100
0 -212267	N	Y	2	2						58		10	10	GM O	200

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				OTHER MATERIALS					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER
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	H	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

lel

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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				

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 TOTAL \$61,232 \$0 \$61,232

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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				

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 TOTAL \$15,620 \$9,303 \$24,923

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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	

PA 078999

Asbestos Assessment Survey

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
		south storage area on shelving-flr tile	212216-0	stored insulation/material	OME	3 cu.ft.			10	26	111	\$41	\$0	\$41
		south storage-shelving-gasket material behind boilers	212217-0	stored insulation/material	OME	3 cu.ft.			55	26	111	\$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	111	\$54	\$29	\$83
		ceiling	212218-5	wrapped cardboard/paper pipe	OMA	100 ft. 6 in. O.D.		CVS/R	10	26	111	\$1,746	\$1,092	\$2,838
		ceiling	212218-5	wrapped cardboard/paper pipe	OMA	100 ft. 8 in. O.D.		CVS/R	10	26	111	\$1,904	\$1,360	\$3,264
		ceiling	212218-5	wrapped cardboard/paper pipe	OMA	30 ft. 10 in. O.D.		CVS/R	10	26	111	\$761	\$564	\$1,325
			212219-5	wrapped cardboard/paper pipe	OMA				10	26	111			
			212220-5	wrapped cardboard/paper pipe	OMA				20	26	111			
		ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	9 10 in. O.D.		CVS/R	0	26	111	\$758	\$474	\$1,232
		ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	18 8 in. O.D.		CVS/R	0	26	111	\$1,166	\$685	\$1,851
		ceiling	212221-6	mjp on wrapped cardboard/paper	OMA	15 6 in. O.D.		CVS/R	0	26	111	\$781	\$459	\$1,240
			212222-6	mjp on wrapped cardboard/paper	OMA				10	26	111			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	26	111			
		throughout	212224-7	mjp on non-suspect pipe cover	OMA	2 6 in. O.D.		CVS/R	0					
		throughout	212224-7	mjp on non-suspect pipe cover	OMA	38 8 in. O.D.		CVS/R	0					

PA 079000

120

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			

PA 079001

Asbestos Assessment Survey

N-K Building #: 71

611

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
		corridor to boiler room-ceiling	212246-13	mjp on pipe covering	OMA				70	26	III			
			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	ONG	450 sq.ft.	0			
							AREA TOTAL	\$0	\$0	\$0

08	FEDERAL	Ground Floor-East Side-Garage				AREA AVERAGE % ASB -	32%
----	---------	-------------------------------	--	--	--	----------------------	-----

PA 079002

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	QEM CODE	UNIT OF QUANT	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	111	\$358	\$193	\$551
		along ceiling & upper walls	212268-0	pipe covering	OMA	130 ft. 4 in. O.D.		EXH	75	27	111	\$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	111	\$1,397	\$874	\$2,271	
		car wash-ceiling	212241-12	pipe covering	OMA	30 ft. 4 in. O.D.		LPS/R	80	27	111	\$360	\$225	\$585	
		along ceiling & upper walls	212241-12	pipe covering	OMA	530 ft. 6 in. O.D.		LPS/R	80	27	111	\$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	111	\$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	111	\$2,570	\$1,836	\$4,406	
			212242-12	pipe covering	OMA				70	27	111				
			212243-12	pipe covering	OMA				85	27	111				
		along ceiling & upper walls	212244-13	mjp on pipe covering	OMA	51 4 in. O.D.		LPS/R	65	27	111	\$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	111	\$156	\$92	\$248	
		car wash-ceiling	212244-13	mjp on pipe covering	OMA	8 4 in. O.D.		LPS/R	65	27	111	\$302	\$168	\$470	
		along ceiling & upper walls	212244-13	mjp on pipe covering	OMA	8 8 in. O.D.		LPS/R	65	27	111	\$518	\$305	\$823	
		along ceiling & upper walls	212244-13	mjp on pipe covering	OMA	240 6 in. O.D.		LPS/R	65	27	111	\$12,490	\$7,337	\$19,827	
			212245-13	mjp on pipe covering	OMA				60	27	111				
			212246-13	mjp on pipe covering	OMA				70	27	111				
		along ceiling & upper walls	212247-14	wrapped cardboard/paper pipe	OMA	185 ft. 6 in. O.D.		DW	12	27	111	\$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	111	\$9,660	\$6,046	\$15,706	
			212248-14	wrapped cardboard/paper pipe	OMA				11	27	111				
			212249-14	wrapped cardboard/paper pipe	OMA				10	27	111				
		along ceiling & upper walls	212250-15	mjp on wrapped cardboard/paper	OMA	15 6 in. O.D.		DW	60	27	111	\$781	\$459	\$1,240	
		along ceiling & upper walls	212250-15	mjp on wrapped cardboard/paper	OMA	35 4 in. O.D.		DW	60	27	111	\$1,323	\$735	\$2,058	
			212251-15	mjp on wrapped cardboard/paper	OMA				0	27	111				
			212252-15	mjp on wrapped cardboard/paper	OMA				60	27	111				
		along ceiling & along upper walls	212253-16	corrugated pipe covering	OMA	72 ft. 4 in. O.D.		DW	50	27	111	\$864	\$541	\$1,405	
			212254-16	corrugated pipe covering	OMA				15	27	111				
			212255-16	corrugated pipe covering	OMA				20	27	111				
		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	111	\$130	\$76	\$206	
		along ceiling & upper walls	212259-18	mjp on wrapped cardboard/paper	OMA	10 6 in. O.D.		DR	80	27	111	\$520	\$306	\$826	

PA 079003

Asbestos Assessment Survey

H-K Building #: 71

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&M CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
		along ceiling & upper walls	212260-18	mjp on wrapped cardboard/paper	OMA					0	27	111			
			212261-18	mjp on wrapped cardboard/paper	OMA					65	27	111			
			212263-19	mjp on corrugate pipe covering	OMA	4	4 in. O.D.	DW		80	27	111	\$151	\$84	\$235
			212264-19	mjp on corrugate pipe covering	OMA					70	27	111			
			212265-19	mjp on corrugate pipe covering	OMA					70	27	111			
		along ceiling & upper walls	212218-5	wrapped cardboard/paper pipe	OMA	310	ft. 8 in. O.D.	CWS/R		10	27	111	\$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	111	\$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	111	\$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	111	\$2,095	\$1,310	\$3,405
			212219-5	wrapped cardboard/paper pipe	OMA					10	27	111			
			212220-5	wrapped cardboard/paper pipe	OMA					20	27	111			
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA	10	4 in. O.D.	CWS/R		0	27	111	\$378	\$210	\$588
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA		5 6 in. O.D.	CWS/R		0	27	111	\$260	\$153	\$413
		along ceiling & upper walls	212221-6	mjp on wrapped cardboard/paper	OMA		22 8 in. O.D.	CWS/R		0	27	111	\$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	111	\$337	\$211	\$548
			212222-6	mjp on wrapped cardboard/paper	OMA					10	27	111			
			212223-6	mjp on wrapped cardboard/paper	OMA					0	27	111			

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	1	\$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	111	\$2,117	\$770	\$2,887
		The ceiling tiles in this area are in good condition.										AREA TOTAL	\$2,117	\$770	\$2,887

211

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	OHA	10 ft. 4 in.	O.D.	DW	12	18	IV	\$120	\$75	\$195	
			212248-14	wrapped cardboard/paper pipe	OHA				11	18	IV				
			212249-14	wrapped cardboard/paper pipe	OHA				10	18	IV				
		above drop ceiling	212253-16	corrugated pipe covering	OHA	10 ft. 4 in.	O.D.	DW	50	18	IV	\$120	\$75	\$195	
			212254-16	corrugated pipe covering	OHA				15	18	IV				
			212255-16	corrugated pipe covering	OHA				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

PA 079005

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	FEDERAL	Grd Floor-W End-Corridor-Above Drop Ceiling	AREA AVERAGE % ASB - 38%												
		throughout	212241-12	pipe covering	OHA	136 ft. 4 in.	O.D.	LPS/R	80	18	IV	\$1,632	\$1,021	\$2,653	
		throughout	212241-12	pipe covering	OHA	120 ft. 6 in.	O.D.	LPS/R	80	18	IV	\$2,095	\$1,310	\$3,405	
			212242-12	pipe covering	OHA				70	18	IV				
			212243-12	pipe covering	OHA				85	18	IV				
		throughout	212244-13	mjp on pipe covering	OHA	4 4 in.	O.D.	LPS/R	65	18	IV	\$151	\$84	\$235	
		throughout	212244-13	mjp on pipe covering	OHA	2 6 in.	O.D.	LPS/R	65	18	IV	\$104	\$61	\$165	
			212245-13	mjp on pipe covering	OHA				60	18	IV				
			212246-13	mjp on pipe covering	OHA				70	18	IV				
		throughout	212247-14	wrapped cardboard/paper pipe	OHA	400 ft. 4 in.	O.D.	DW	12	18	IV	\$4,800	\$3,006	\$7,806	
			212248-14	wrapped cardboard/paper pipe	OHA				11	18	IV				
			212249-14	wrapped cardboard/paper pipe	OHA				10	18	IV				
		throughout	212250-15	mjp on wrapped cardboard/paper	OHA	20 4 in.	O.D.	DW	60	18	IV	\$756	\$420	\$1,176	
			212251-15	mjp on wrapped cardboard/paper	OHA				0	18	IV				
			212252-15	mjp on wrapped cardboard/paper	OHA				60	18	IV				
		throughout	212253-16	corrugated pipe covering	OHA	108 ft. 4 in.	O.D.	DW	50	18	IV	\$1,296	\$811	\$2,107	
			212254-16	corrugated pipe covering	OHA				15	18	IV				
			212255-16	corrugated pipe covering	OHA				20	18	IV				
		throughout	212256-17	wrapped cardboard/paper pipe	OHA	100 ft. 8 in.	O.D.	DR	0	18	IV	\$1,904	\$1,360	\$3,264	
		throughout	212256-17	wrapped cardboard/paper pipe	OHA	20 ft. 6 in.	O.D.	DR	0	18	IV	\$349	\$218	\$567	
			212257-17	wrapped cardboard/paper pipe	OHA				0	18	IV				
			212258-17	wrapped cardboard/paper pipe	OHA				2	18	IV				
		throughout	212259-18	mjp on wrapped cardboard/paper	OHA	2 8 in.	O.D.	DR	80	18	IV	\$130	\$76	\$206	
		throughout	212259-18	mjp on wrapped cardboard/paper	OHA	10 6 in.	O.D.	DR	80	18	IV	\$520	\$306	\$826	

Asbestos Assessment Survey

N-K Building #: 71

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&M CODE	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
throughout			212260-18	mjp on wrapped cardboard/paper	OMA			0	18	IV			
			212261-18	mjp on wrapped cardboard/paper	OMA			65	18	IV			
			212280-22	mjp on corrugate pipe covering	OMA	4 4 in. O.D.	DW	30	18	IV	\$151	\$64	\$235
			212281-22	mjp on corrugate pipe covering	OMA			0	18	IV			
			212282-22	mjp on corrugate pipe covering	OMA			40	18	IV			
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.										AREA TOTAL	\$13,888	\$8,755	\$22,643

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

PA 079006

H-K Building #: 71

PA 079007

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&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			
		at ceilings	212261-18	mjp on wrapped cardboard/paper	OMA					65	26	III			
			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			
		southwest corner-on fan unit	212265-19	mjp on corrugate pipe covering	OMA					70	26	III			
			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.	CMS/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.	CMS/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.	CMS/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.	CMS/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.	CMS/R	0	26	III	\$113	\$63	\$176	
		at ceilings	212221-6	mjp on wrapped cardboard/paper	OMA	6	6 in. O.D.	CMS/R	0	26	III	\$312	\$183	\$495	
		at ceilings	212221-6	mjp on wrapped cardboard/paper	OMA	22	8 in. O.D.	CMS/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	

Asbestos Assessment Survey

H-K Building #: 71

116

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H 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.	DM	60	14	IV	\$189	\$105	\$294
			212251-15	mjp on wrapped cardboard/paper	OMA				0	14	IV			
		above semipermanent drop ceiling	212252-15	mjp on wrapped cardboard/paper	OMA				60	14	IV			
			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			

PA 079008

Asbestos Assessment Survey

H-K Building #: 71

AREA TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OCM 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

Asbestos Assessment Survey

H-K Building #: 71

115

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
ceiling			216014-32	exterior duct insulation	OMB	150 sq.ft.			30	52	11	\$4,827	\$3,888	\$8,715
			216016-32	exterior duct insulation	OMB				40	52	11			
			216017-32	exterior duct insulation	OMB				35	52	11			
ceiling			212218-5	wrapped cardboard/paper pipe	OMA	15 ft. 4 in. O.D.	DW		10	52	11	\$180	\$113	\$293
			212219-5	wrapped cardboard/paper pipe	OMA				10	52	11			
			212220-5	wrapped cardboard/paper pipe	OMA				20	52	11			
ceiling			212221-6	mjp on wrapped cardboard/paper	OMA	1 4 in. O.D.	DW		0	52	11	\$38	\$21	\$59
			212222-6	mjp on wrapped cardboard/paper	OMA				10	52	11			
			212223-6	mjp on wrapped cardboard/paper	OMA				0	52	11			
ceiling			212224-7	mjp on non-suspect pipe cover	OMA	10 6 in. O.D.	CMS/R		0					
ceiling			212224-7	mjp on non-suspect pipe cover	OMA	10 8 in. O.D.	CMS/R		0					
ceiling			212224-7	mjp on non-suspect pipe cover	OMA	4 10 in. O.D.	CMS/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 occurred 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	OMB 800 sq.ft. 0
GSA office	216011-0 drop or lay-in panel	OMB 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 11 \$17 \$11 \$28
	212242-12 pipe covering	OMA 70 48 11
	212243-12 pipe covering	OMA 85 48 11
below obsolete dishwashing unit	212256-17 wrapped cardboard/paper pipe	OMA 7 ft. 4 in. O.D. DW 0 48 11 \$84 \$53 \$137
food prep area-below sinks	212256-17 wrapped cardboard/paper pipe	OMA 12 ft. 4 in. O.D. DW 0 48 11 \$144 \$90 \$234
	212257-17 wrapped cardboard/paper pipe	OMA 0 48 11
	212258-17 wrapped cardboard/paper pipe	OMA 2 48 11
below obsolete dishwashing unit	212259-18 mjp on wrapped cardboard/paper	OMA 9 4 in. O.D. DW 80 48 11 \$340 \$189 \$529
food prep area-below sinks	212259-18 mjp on wrapped cardboard/paper	OMA 20 4 in. O.D. DW 80 48 11 \$756 \$420 \$1,176

PA 079010

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	QEM CODE	UNIT OF QUANT MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
			212260-18	mjp on wrapped cardboard/paper	OMA			0	48 11				
			212261-18	mjp on wrapped cardboard/paper	OMA			65	48 11				
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			

This material is located above the semipermanent metal drop ceiling. It is enclosed behind a barrier and is easily 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	36 111	\$289,620	\$233,280	\$522,900
			216013-31	exterior duct insulation	OMB			35	36 111			
			216015-31	exterior duct insulation	OMB			30	36 111			

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
------------	-----------	-----------	-----------

PA 079011

Asbestos Assessment Survey

H-K Building #: 71

111

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&M CODE	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 079012

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&H CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS		
			212251-15	mjp on wrapped cardboard/paper	QMA				0	13	IV					
			212252-15	mjp on wrapped cardboard/paper	QMA				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	QMA	408 ft. 4 in. O.D.	LPS		80	8	IV	\$4,896	\$3,064	\$7,960		
			212242-12	pipe covering	QMA				70	8	IV					
			212243-12	pipe covering	QMA				85	8	IV					
		throughout perimeter walls	212244-13	mjp on pipe covering	QMA	50 4 in. O.D.	LPS		65	8	IV	\$1,890	\$1,050	\$2,940		
			212245-13	mjp on pipe covering	QMA				60	8	IV					
			212246-13	mjp on pipe covering	QMA				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	QHZ	300 sq.ft.			40	7	IV	\$2,100	\$1,500	\$3,600		
		center penthouse-elevator control room	216007-0	vinyl floor tile	QHZ	200 sq.ft.			2	7	IV	\$908	\$688	\$1,596		
		1st floor	216007-0	vinyl floor tile	QHZ	32124 sq.ft.			2	7	IV	\$145,843	\$110,507	\$256,350		
		1st floor	216008-0	vinyl floor tile	QHZ	5086 sq.ft.			0							
		center penthouse-elevator control room	99999-0	brake shoes	QHZ	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

Asbestos Assessment Survey

PA 079017

H-K Building #: 71

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OEM 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

PA 079018

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&H 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			

110

PA 079019

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	G&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 - 28X										
		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			

Asbestos Assessment Survey

H-K Building #: 71

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	OHA		21 4 in. O.D.	CWS/R	0	25	III	\$794	\$441	\$1,235
			212293-26	mjp on non-suspect pipe cover	OHA				12	25	III			
			212294-26	mjp on non-suspect pipe cover	OHA				0	25	III			
		air handler & fan	216001-29	exterior duct insulation	OHB	700	sq.ft.		35	25	III	\$22,526	\$18,144	\$40,670
			216002-29	exterior duct insulation	OHB				40	25	III			
			216003-29	exterior duct insulation	OHB				38	25	III			
		over cork on duct work	216004-30	exterior duct insulation	OHB	1256	sq.ft.		0	25	III	\$40,418	\$32,556	\$72,974
			216005-30	exterior duct insulation	OHB				2	25	III			
			216006-30	exterior duct insulation	OHB				0	25	III			

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.

AREA TOTAL \$74,352 \$57,567 \$131,919

31	FEDERAL	Penthouse-West Mechanical Room	AREA AVERAGE % ASB - 24%											
		northeast & southeast corners	212247-14	wrapped cardboard/paper pipe	OHA	40	ft. 6 in. O.D.	DR	12	25	III	\$698	\$437	\$1,135
			212248-14	wrapped cardboard/paper pipe	OHA				11	25	III			
			212249-14	wrapped cardboard/paper pipe	OHA				10	25	III			
		northeast & southeast corners	212250-15	mjp on wrapped cardboard/paper	OHA	5	6 in. O.D.	DR	60	25	III	\$260	\$153	\$413
			212251-15	mjp on wrapped cardboard/paper	OHA				0	25	III			
			212252-15	mjp on wrapped cardboard/paper	OHA				60	25	III			
		along north side of air handler	212256-17	wrapped cardboard/paper pipe	OHA	35	ft. 4 in. O.D.	DW	0	25	III	\$420	\$263	\$683
			212257-17	wrapped cardboard/paper pipe	OHA				0	25	III			
			212258-17	wrapped cardboard/paper pipe	OHA				2	25	III			
		north side of air handler	212259-18	mjp on wrapped cardboard/paper	OHA	5	4 in. O.D.	DW	80	25	III	\$189	\$105	\$294
			212260-18	mjp on wrapped cardboard/paper	OHA				0	25	III			
			212261-18	mjp on wrapped cardboard/paper	OHA				65	25	III			
		ceiling-east wall to air handler	212277-21	wrapped cardboard/paper pipe	OHA	100	ft. 6 in. O.D.	CWS/R	0	25	III	\$1,746	\$1,092	\$2,838
			212278-21	wrapped cardboard/paper pipe	OHA				0	25	III			
			212279-21	wrapped cardboard/paper pipe	OHA				5	25	III			
		ceiling-east wall to air handler	212280-22	mjp on wrapped cardboard/paper	OHA	14	6 in. O.D.	CWS/R	30	25	III	\$729	\$428	\$1,157
			212281-22	mjp on wrapped cardboard/paper	OHA				0	25	III			
			212282-22	mjp on wrapped cardboard/paper	OHA				40	25	III			
		ceiling-east wall & over air handler	212283-23	pipe covering	OHA	40	ft. 4 in. O.D.	LPS	70	25	III	\$480	\$300	\$780
		ceiling-east wall & over air handler	212283-23	pipe covering	OHA	60	ft. 6 in. O.D.	LPS	70	25	III	\$1,048	\$655	\$1,703
			212284-23	pipe covering	OHA				70	25	III			

107

Asbestos Assessment Survey

PA 079021

Building Name: FEDERAL OFFICE BUILDING
 JFK AIRPORT
 Building Type: OFFICE
 Constructed: 1949
 Inspected: 05/18/88
 Inspector: Jeff Lanan

H-K Building #: 71

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	DEM CODE	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
		intake duct	216001-29	exterior duct insulation	OM8	700 sq.ft.		35	27	111	\$22,526	\$18,144	\$40,670	
			216002-29	exterior duct insulation	OM8			40	27	111				
			216003-29	exterior duct insulation	OM8			38	27	111				
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 NEPA vacuum and wet wipe procedures.											AREA TOTAL	\$22,526	\$18,144	\$40,670

30	FEDERAL	Penthouse-South Mechanical Room	AREA AVERAGE % ASB - 22%											
		duct work southwest corner	212266-0	vibration joint cloth	OMZ	15 sq.ft.					0			
			212247-14	wrapped cardboard/paper pipe	OMA	5 ft. 12 in. O.D.	DR	12	25	111	\$148	\$114	\$262	
			212248-14	wrapped cardboard/paper pipe	OMA			11	25	111				
			212249-14	wrapped cardboard/paper pipe	OMA			10	25	111				
		southwest corner	212250-14	mjp on wrapped cardboard/paper	OMA	2 12 in. O.D.	DR	60	25	111	\$204	\$128	\$332	
			212251-14	mjp on wrapped cardboard/paper	OMA			0	25	111				
			212252-14	mjp on wrapped cardboard/paper	OMA			60	25	111				
		along north wall & west side of AHU	212256-17	wrapped cardboard/paper pipe	OMA	35 ft. 4 in. O.D.	DW	0	25	111	\$420	\$263	\$683	
			212257-17	wrapped cardboard/paper pipe	OMA			0	25	111				
			212258-17	wrapped cardboard/paper pipe	OMA			2	25	111				
		north wall and west side of AHU	212259-18	mjp on wrapped cardboard/paper	OMA	5 4 in. O.D.	DW	80	25	111	\$189	\$105	\$294	
			212260-18	mjp on wrapped cardboard/paper	OMA			0	25	111				
			212261-18	mjp on wrapped cardboard/paper	OMA			65	25	111				
		under ducts-west side to east tower	212277-21	wrapped cardboard/paper pipe	OMA	155 ft. 6 in. O.D.	CWS/R	0	25	111	\$2,706	\$1,693	\$4,399	
			212278-21	wrapped cardboard/paper pipe	OMA			0	25	111				
			212279-21	wrapped cardboard/paper pipe	OMA			5	25	111				
		under ducts-west side to east tower	212280-22	mjp on wrapped cardboard/paper	OMA	24 6 in. O.D.	CWS/R	30	25	111	\$1,249	\$734	\$1,983	
			212281-22	mjp on wrapped cardboard/paper	OMA			0	25	111				
			212282-22	mjp on wrapped cardboard/paper	OMA			40	25	111				
		across top of AHU & between AHU & ducts	212283-23	pipe covering	OMA	35 ft. 6 in. O.D.	LPS	70	25	111	\$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	111	\$1,200	\$751	\$1,951	
			212284-23	pipe covering	OMA			70	25	111				
			212285-23	pipe covering	OMA			70	25	111				
		across top of AHU & between AHU & ducts	212286-24	mjp on pipe covering	OMA	8 6 in. O.D.	LPS	30	25	111	\$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	111	\$869	\$483	\$1,352	
			212287-24	mjp on pipe covering	OMA			30	25	111				
			212288-24	mjp on pipe covering	OMA			30	25	111				
		air handler-west side-center	212292-26	mjp on non-suspect pipe cover	OMA	50 6 in. O.D.	CWS/R	0	25	111	\$2,602	\$1,528	\$4,130	

PA 079022

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%

100

BUILDING 113
FUEL FARM ACCOUNTING OFFICE

PA 079024

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

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL			
					AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER		
0 -251101	N	Y	2	2								13	70	CAL	GM	15	100
0 -251102	N	N	0						30	40		20	10				100

PA 079027

Asbestos Assessment Survey

H-K Building #: 88

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	FUEL FARM	1st Floor-Floors													
		throughout	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													
		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: W70277 JFK INTERNATIONAL AIRPORT

BUILDING: 114

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	CHRY	ASBESTOS				OTHER MATERIALS					TOTAL	
					AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER
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	OHZ	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

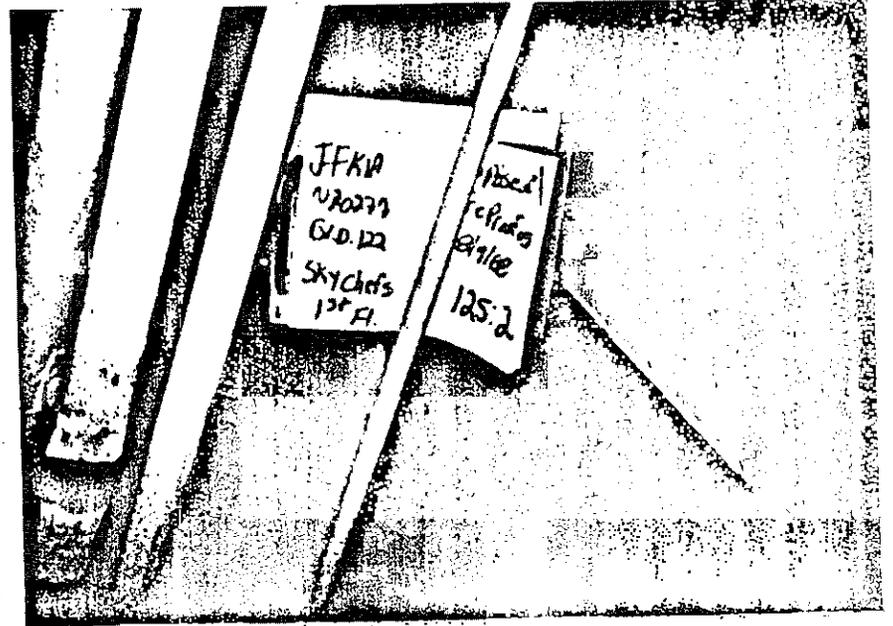
<u>Picture #</u>	<u>Description</u>
1	First Floor, fireproofing on structural steel.
2	Second Floor, Boiler Room, pipe insulation.

PA 079041

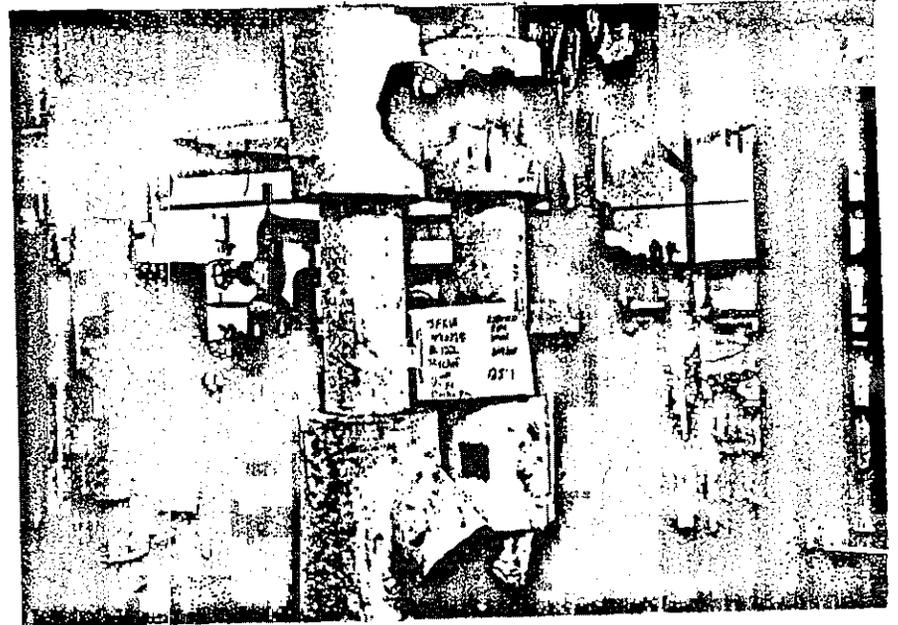
C-LINE #52584
35MM PRINTS

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				OTHER MATERIALS				TOTAL	
				CHRY	AMO	CRO	ANT TRE	WOOL	CEL	MICA	PER BINDER OTHER		
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 PY	100
6 -254117	Y	N	0					67			23	10 PY	100
6 -254118	Y	N	0					65			25	10 PY	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
1 -254130	N	N	0						20		1	79 TAR	100
4 -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

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
		The floor tiles are in good condition.								AREA TOTAL	\$55,788	\$42,271	\$98,059
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.	CMS/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.	HMS/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.	HMS/R		0			
		ceiling above receiving	254131-8	mjp on non-suspect pipe cover	OMA	14	4 in. O.D.	HMS/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.	CMS/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

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OSM CODE	QUANT	UNITY 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.	HMS/R		0			
		above lobby ceiling	254131-8	mjp on non-suspect pipe cover	OMA	4	4 in. O.D.	HMS/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.	CMS/R		0			
		above lobby ceiling	254134-9	mjp on non-suspect pipe cover	OMA	4	10 in. O.D.	CMS/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 - OX

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

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
			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	1V	\$79,904	\$60,544	\$140,448	
The material is found in good condition.												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	PA 079046	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					

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 90

Building Number: 122 Page 7
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&N 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

SAMPLE NUMBER	HOMO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL		
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER
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 Page 1
 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	
01	AMERICAN Boiler Room	AREA AVERAGE % ASB - 7%												
	northwest corner of room	228007-3	mjp on non-suspect pipe cover	OHA	10 B in. O.D.	DW		3	25	111	\$648	\$381	\$1,029	
		228008-3	mjp on non-suspect pipe cover	OHA				8	25	111				
		228009-3	mjp on non-suspect pipe cover	OHA				9	25	111				
	This material is in good condition. The material has some minor water damage. The water damage has softened and cracked the outer wrapping.										AREA TOTAL	\$648	\$381	\$1,029
02	AMERICAN Boiler Room-Boiler Doors	AREA AVERAGE % ASB - 0%												
	on all four doors-throughout	228010-0	gasket	OMZ	8 sq.ft.					0				
											AREA TOTAL	\$0	\$0	\$0
03	AMERICAN Boiler Room-Inside Boilers	AREA AVERAGE % ASB - 0%												
	all four doors	228011-0	fire brick	OMZ	125 sq.ft.					0				
											AREA TOTAL	\$0	\$0	\$0
04	AMERICAN Boiler Room-Boiler Exhaust	AREA AVERAGE % ASB - 79%												
	above boiler #1	228001-1	breecher/exhaust stack packing	OMB	300 sq.ft.			80	33	111	\$17,121	\$13,794	\$30,915	
		228002-1	breecher/exhaust stack packing	OMB				75	33	111				
		228003-1	breecher/exhaust stack packing	OMB				85	33	111				
	above boiler #2	228004-2	breecher/exhaust stack packing	OMB	300 sq.ft.			75	33	111	\$17,121	\$13,794	\$30,915	
		228005-2	breecher/exhaust stack packing	OMB				80	33	111				
		228006-2	breecher/exhaust stack packing	OMB				80	33	111				
	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.										AREA TOTAL	\$34,242	\$27,588	\$61,830

PA 079057

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 58

Building Number: 123 Page 3
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	DEH CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
		throughout	228017-0	acoustical tile	ORG	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 Page 5
 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		
The material is worn but in good condition. This is an area that is frequently accessed.											AREA TOTAL	\$11,804	\$8,944	\$20,748	
17	NCA	Cargo Area Customs Office-Ceiling							AREA AVERAGE % ASB -	0%					
		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	CHRY	ASBESTOS				OTHER MATERIALS				TOTAL	
					AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER
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

BUILDING 125
ALLIED AVIATION BUILDING

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				OTHER MATERIALS					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER
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

BUILDING 127
WEST CENTER LEAN-TO/HANGARS 3 AND 4

PA 079078

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

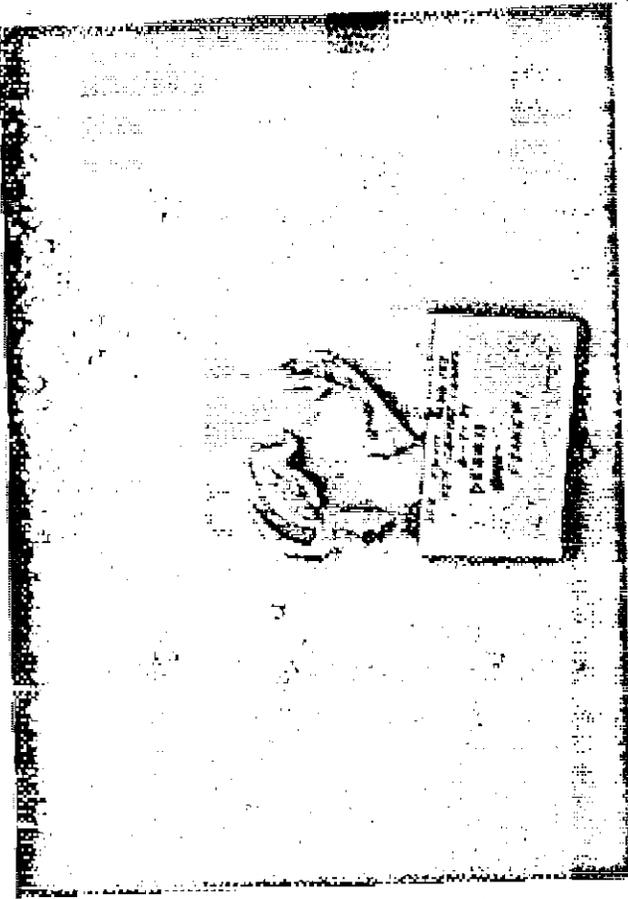
PHOTOGRAPH LOG

BUILDING 127 - WEST CENTER LEAN-TO/HANGARS 3 AND 4

<u>Picture #</u>	<u>Description</u>
1	..., debris.
2	..., air cell-type pipe insulation. Ex. 4
3	Boiler 1.
4	corrugated duct insulation.

PA 079084

127



1

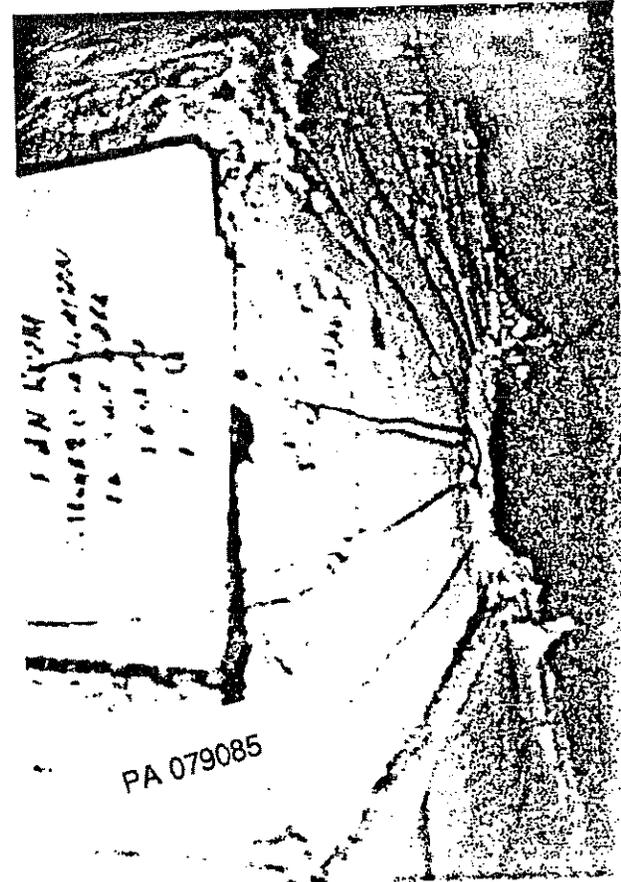
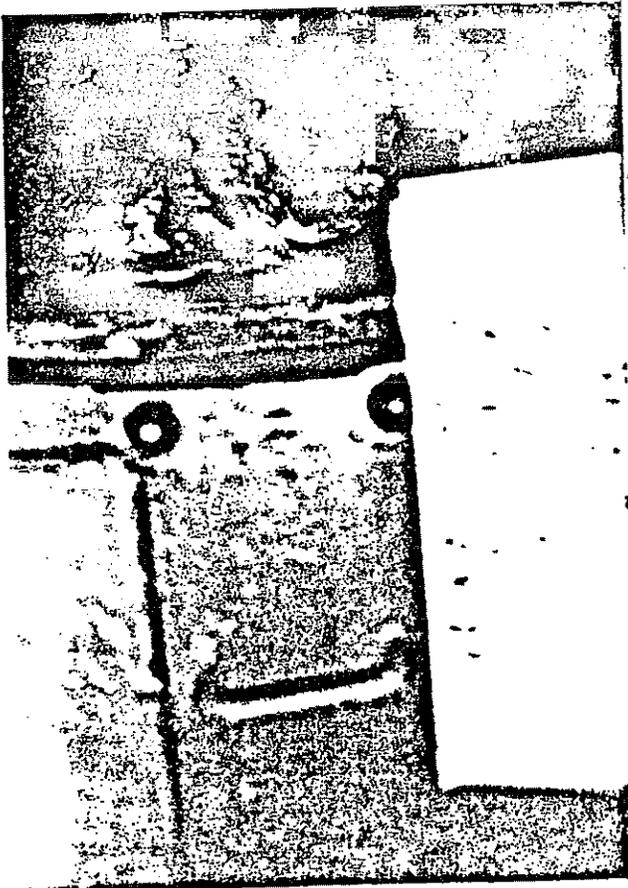
3



2

4

C-LINE #52584
35MM PRINTS



PA 079085

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				OTHER MATERIALS					TOTAL				
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER	OTHER		
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

PA 079086

HALL-KIMBRELL ENVIRONMENTAL SERVICES INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: NEW YORK PORT AUTHORITY
 PROJECT NO: W70277 JFK INTERNATIONAL AIRPORT

BUILDING: 127

SAMPLE NUMBER	NOMO	ASB/PRES	TOTAL ASB	ASBESTOS					OTHER MATERIALS					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER	BINDER		OTHER
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	100
0 -216447	N	Y	5	5					70					25	70 CAL GM 10 100

PA 079087

H-K Building #: 34

AREA TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	Q&N CODE	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	
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 TOTAL	\$15,890	\$12,040	\$27,930

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				
	hot water storage tanks-southwest corner	216215-1	boiler/tank insulation	OMB	145 sq.ft.			60 61	I	\$6,934	\$5,553	\$12,487	
		216216-2	boiler/tank insulation	OMB				70 61	I				
		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				
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 TOTAL	\$32,279	\$25,852	\$58,131

PA 079088

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				

AREA #	TENANT #	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	DEM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS		
05	FLYING TIGERS	1st Floor	AREA AVERAGE % ASB - 46%													
		throughout-at ceiling	216240-10	mjp on wrapped cardboard/paper	OMA	50	4 in. O.D.	DW	55	27	111	\$1,890	\$1,050	\$2,940		
			216241-10	mjp on wrapped cardboard/paper	OMA				50	27	111					
			216242-10	mjp on wrapped cardboard/paper	OMA				60	27	111					
		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	111	\$480	\$300	\$780		
			216247-12	corrugated pipe covering	OMA				50	27	111					
			216248-12	corrugated pipe covering	OMA				45	27	111					
		throughout-at ceiling	216231-7	pipe covering	OMA	50	ft. 4 in. O.D.	DW	60	27	111	\$600	\$376	\$976		
		throughout-at ceiling	216231-7	pipe covering	OMA	350	ft. 6 in. O.D.	HWS/R	60	27	111	\$6,111	\$3,822	\$9,933		
			216232-7	pipe covering	OMA				70	27	111					
			216233-7	pipe covering	OMA				50	27	111					
		throughout-at ceiling	216234-8	mjp on pipe covering	OMA	15	4 in. O.D.	HWS/R	75	27	111	\$567	\$315	\$882		
		throughout-at ceiling	216234-8	mjp on pipe covering	OMA	20	6 in. O.D.	HWS/R	75	27	111	\$1,041	\$611	\$1,652		
			216235-8	mjp on pipe covering	OMA				80	27	111					
			216236-8	mjp on pipe covering	OMA				70	27	111					
		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							
		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 TOTAL	\$10,689	\$6,474	\$17,163

06	FLYING TIGERS	2nd Floor-Floors	AREA AVERAGE % ASB - 6%													
		throughout entire floor	216446-0	vinyl floor tile	OMZ	16000	sq.ft.			6	27	111	\$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 TOTAL	\$72,640	\$55,040	\$127,680

07	FLYING TIGERS	2nd Floor-Ceiling	AREA AVERAGE % ASB - 5%												
		south end	216447-0	drop or lay-in panel	OMG	6000	sq.ft.			5	25	111	\$45,360	\$16,500	\$61,860

PA 079089

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	PORT AUTHORITY	3rd Floor-Boiler Room	AREA AVERAGE % ASB - 31%												
		boiler #1-northeast corner	216255-14	boiler/tank insulation	OMB	750	sq. ft.		10	58	11	\$35,865	\$28,725	\$64,590	
			216256-14	boiler/tank insulation	OMB				40	58	11				
			216257-14	boiler/tank insulation	OMB				30	58	11				
		boiler #2-southeast corner	216258-15	boiler/tank insulation	OMB	750	sq. ft.		15	58	11	\$35,865	\$28,725	\$64,590	
			216259-15	boiler/tank insulation	OMB				20	58	11				
			216260-15	boiler/tank insulation	OMB				20	58	11				
		boiler #3-southwest corner	216261-16	boiler/tank insulation	OMB	750	sq. ft.		15	58	11	\$35,865	\$28,725	\$64,590	
			216262-16	boiler/tank insulation	OMB				25	58	11				
			216263-16	boiler/tank insulation	OMB				20	58	11				
		boiler #4-northwest corner	216264-17	boiler/tank insulation	OMB	750	sq. ft.		10	58	11	\$35,865	\$28,725	\$64,590	
			216265-17	boiler/tank insulation	OMB				10	58	11				
			216266-17	boiler/tank insulation	OMB				15	58	11				
		hot water tank-northwest corner	216267-18	boiler/tank insulation	OMB	275	sq. ft.		70	58	11	\$13,150	\$10,532	\$23,682	
			216268-18	boiler/tank insulation	OMB				75	58	11				
			216269-18	boiler/tank insulation	OMB				65	58	11				
		large heat convertor near ceiling-N side	216270-19	boiler/tank insulation	OMB	80	sq. ft.		40	58	11	\$3,826	\$3,064	\$6,890	
			216271-19	boiler/tank insulation	OMB				30	58	11				
			216272-19	boiler/tank insulation	OMB				40	58	11				
		small heat convertor near ceiling-N side	216273-20	boiler/tank insulation	OMB	25	sq. ft.		15	58	11	\$1,195	\$957	\$2,152	
			216274-20	boiler/tank insulation	OMB				10	58	11				
			216275-20	boiler/tank insulation	OMB				15	58	11				
		boiler #1-stack	216300-29	breecher/exhaust stack packing	OMB	25	sq. ft.		90	58	11	\$1,427	\$1,149	\$2,576	
			216401-29	breecher/exhaust stack packing	OMB				40	58	11				
			216402-29	breecher/exhaust stack packing	OMB				40	58	11				
		boiler #2-stack	216403-33	breecher/exhaust stack packing	OMB	150	sq. ft.		30	58	11	\$8,560	\$6,897	\$15,457	
			216404-33	breecher/exhaust stack packing	OMB				30	58	11				
			216405-33	breecher/exhaust stack packing	OMB				30	58	11				
		boiler #3-stack	216406-34	breecher/exhaust stack packing	OMB	150	sq. ft.		40	58	11	\$8,560	\$6,897	\$15,457	
			216407-34	breecher/exhaust stack packing	OMB				20	58	11				
			216408-34	breecher/exhaust stack packing	OMB				30	58	11				
		boiler #4-stack	216409-35	breecher/exhaust stack packing	OMB	150	sq. ft.		30	58	11	\$8,560	\$6,897	\$15,457	
			216410-35	breecher/exhaust stack packing	OMB				30	58	11				
			216411-35	breecher/exhaust stack packing	OMB				30	58	11				

PA 079090

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	
		along east & west walls	216299-28	mjp on wrapped cardboard/paper	OMA				75	41	11				
			216412-36	wrapped cardboard/paper pipe	OMA	40 ft.	8 in. O.D.	DR	60	41	11	\$762	\$544	\$1,306	
			216413-36	wrapped cardboard/paper pipe	OMA				60	41	11				
			216414-36	wrapped cardboard/paper pipe	OMA				60	41	11				
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 TOTAL	\$55,999	\$39,247	\$95,246

11	PORT AUTHORITY	3rd Floor-Boiler Room	AREA AVERAGE % ASB - 5%												
		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	111	\$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 TOTAL	\$72	\$39	\$111

12	PORT AUTHORITY	3rd Floor-Boiler Room	AREA AVERAGE % ASB - 0%												
		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

13	PORT AUTHORITY	3rd Floor-Fan Room	AREA AVERAGE % ASB - 22%											
		along ceiling in center of room	216429-39	pipe covering	OMA	200 ft.	4 in. O.D.	HWS/R	20	28	111	\$2,400	\$1,502	\$3,902
			216430-39	pipe covering	OMA				20	28	111			
			216431-39	pipe covering	OMA				20	28	111			
		throughout center of room	216432-40	mjp on pipe covering	OMA	75 ft.	4 in. O.D.	HWS/R	40	28	111	\$2,835	\$1,575	\$4,410
			216433-40	mjp on pipe covering	OMA				50	28	111			
			216434-40	mjp on pipe covering	OMA				50	28	111			
		on north wall	216438-42	wrapped cardboard/paper pipe	OMA	40 ft.	8 in. O.D.	DR						

PA 079091

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

H-K Building #: 34

Building Number: 127 Page 9
 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	
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
	stock room-across ceiling	216184-30	mjp on non-suspect pipe cover	OMA				0					
		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.	HMS/R	60	23	III	\$144	\$90	\$234
	stock room-across ceiling	216231-7	pipe covering	OMA	83 ft.	4 in. O.D.	HMS/R	60	23	III	\$996	\$623	\$1,619
	room south of restroom	216231-7	pipe covering	OMA	30 ft.	6 in. O.D.	HMS/R	60	23	III	\$524	\$328	\$852
	stock room-across ceiling	216231-7	pipe covering	OMA	361 ft.	6 in. O.D.	HMS/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.	HMS/R	75	23	III	\$113	\$63	\$176
	stock room-across ceiling	216234-8	mjp on pipe covering	OMA	4 4 in.	O.D.	HMS/R	75	23	III	\$151	\$84	\$235
	stock room-across ceiling	216234-8	mjp on pipe covering	OMA	16 6 in.	O.D.	HMS/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			

PA 079093

HALL-KIMBRELL ENVIRONMENTAL SERVICES, INC.

Asbestos Assessment Survey

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. LANAM

H-K Building #: 34

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 DMZ		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	HONO	ASB/PRES	TOTAL ASB	A S B E S T O S				O T H E R M A T E R I A L S					TOTAL	
				CHRY	AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER
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

Asbestos Assessment Survey

H-K Building #: 35

AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OM 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	OM2	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				
												AREA TOTAL	\$3,719	\$2,271	\$5,990

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 #	TENANT	AREA DESCRIPTION	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	OM CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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

PA 079105

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	111	\$1,392	\$871	\$2,263
	throughout		216343-3	wrapped cardboard/paper pipe	OMA	15 ft. 6 in.	O.D.	DW	6	25	111	\$262	\$164	\$426
			216344-3	wrapped cardboard/paper pipe	OMA				10	25	111			
	throughout		216345-3	wrapped cardboard/paper pipe	OMA				6	25	111			
	throughout		216346-4	mjp on wrapped cardboard/paper	OMA	44 4 in.	O.D.	DW	45	25	111	\$1,663	\$924	\$2,587
	throughout		216346-4	mjp on wrapped cardboard/paper	OMA	18 6 in.	O.D.	DW	45	25	111	\$937	\$550	\$1,487
			216347-4	mjp on wrapped cardboard/paper	OMA				30	25	111			
			216348-4	mjp on wrapped cardboard/paper	OMA				30	25	111			
	throughout		216349-5	pipe covering	OMA	98 ft. 4 in.	O.D.	HWS/R	50	25	111	\$1,176	\$736	\$1,912
	throughout		216349-5	pipe covering	OMA	161 ft. 6 in.	O.D.	HWS/R	50	25	111	\$2,811	\$1,758	\$4,569
			216350-5	pipe covering	OMA				50	25	111			
			216351-5	pipe covering	OMA				45	25	111			

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 TOTAL \$8,241 \$5,003 \$13,244

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	1	\$253	\$158	\$411
			216347-4	mjp on wrapped cardboard/paper	OMA				30	60	1			
			216348-4	mjp on wrapped cardboard/paper	OMA				30	60	1			

The material is in very poor condition with major water and contact damage. The room is accessed regularly by maintenance personnel.

AREA TOTAL \$253 \$158 \$411

05	UNITED AIR	2nd Floor	AREA AVERAGE % ASB - 10%											
	throughout		216361-0	Transite siding	OMZ	7385 sq.ft.			10	27	111	\$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.

AREA TOTAL \$17,798 \$35,522 \$53,320

BUILDING 133
UNITED AIRLINES PUMP HOUSE 74

PA 079110

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	CHRY	ASBESTOS				OTHER MATERIALS				TOTAL	
					AMO	CRO	ANT	TRE	WOOL	CEL	MICA	PER		BINDER
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 GM		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 OM2		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	
												TENANT - UNITED AIR	TOTAL	\$4,856	\$2,855	\$7,711
												BUILDING 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.

PA 079114

BUILDING 134
AMOCO GAS STATION/SITE 1

PA 079117

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				OTHER MATERIALS				TOTAL
				CHRY	AMO	CRD	ANT TRE	WOOL	CEL	NICA	PER BINDER	
0 -221294	M	N	0					40	10	50		100

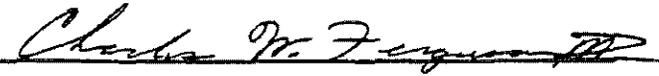
AREA #	TENANT	AREA DESCRIPTION LOCATION OF MATERIAL	SAMPLE NUMBER	BULK SAMPLE DESCRIPTION	O&H CODE	QUANT	UNIT OF MEASURE	PIPE ID	% ASB	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS	
01	AMOCO	Ceilings					AREA AVERAGE % ASB - 0%							
		lobby & garage	221294-0	Transite siding	OMZ	960	sq.ft.			0				
AREA TOTAL											\$0	\$0	\$0	
TENANT - AMOCO											TOTAL	\$0	\$0	\$0
BUILDING TOTAL											\$0	\$0	\$0	

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 Ferguson
Project Manager



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) (#) **
BSQ	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 *

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**

<u>Building #</u>	<u>Building Name</u>
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

<u>Building #</u>	<u>Building Name</u>
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

<u>Building #</u>	<u>Building Name</u>
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

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

PA 079133

**BUILDINGS CONTAINING
SIGNIFICANT POTENTIAL HAZARD AREAS**

<u>Building</u>	<u>Area</u>	<u>Material</u>
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

PA 079134

APPENDIX E
IMMEDIATE RESPONSE ACTION AREAS
CONTAINING DEBRIS

IMMEDIATE RESPONSE ACTION AREAS CONTAINING DEBRIS

<u>Building Number</u>	<u>Building Name</u>	<u>Area Numbers</u>
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

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**

**ESTIMATED COSTS FOR REMOVAL OF DEBRIS
IN IMMEDIATE RESPONSE AREAS**

<u>BUILDING NUMBER/NAME</u>	<u>AREA NUMBER</u>	<u>AREA COST</u>	<u>BUILDING TOTAL</u>
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	934
	250	100	
	252	100	
	254	100	
	262	100	
	262A	100	
	325B	100	
53/Pan Am Airlines Unit Terminal	17	200	200
55/Eastern Airlines Unit Terminal	10	100	100
56/United Airlines Unit Terminal	35	100	300
	43	100	
	51	100	
59/British Airways	36	100	100
95/TWA Commissary	2	5,160	5,160
111/Fitzgerald Federal Building	1	61,232	61,432
	15	100	
	17	100	

**ESTIMATED COSTS FOR REMOVAL OF DEBRIS
IN IMMEDIATE RESPONSE AREAS**

<u>BUILDING NUMBER/NAME</u>	<u>AREA NUMBER</u>	<u>AREA COST</u>	<u>BUILDING TOTAL</u>
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	<u>200</u>
TOTAL			\$69,526

PA 079139

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.

- * 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.

PA 079142

- 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 29 years old
Prior Usage:	Airport Terminal
Work Area:	Approximately 5,590 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:

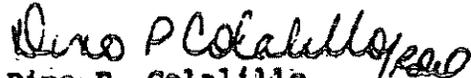
Asbestos Carting Corp.
NY State DEC Permit # 2A-189

Waste Disposal Site:

Roe Creek Development, Inc.
PO Box 655
Cattlettsburg, Kentucky 41129

If further information is required, please contact me at the above address or by calling (718) 392-5950.

Sincerely,


Dino P. Colalillo
Vice President

DPC:rdd

y-6158A



Hygienetics, Inc.

P 726343

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

1)	Project Description.....	Page 1
2)	Protective Controls.....	Page 2
3)	Waste Disposal Methods and Documentation.....	Page 3
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.

<u>Area</u>	<u>ACM Removed</u>
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;

- (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 where 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.

ATTACHMENT A
Project Permits/Licenses

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726349

Notification of Demolition and Renovation

MAY 14 1992

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:		Nonfriable Asbestos Material Not To Be Removed	
1. Regulated ACM to be removed		RACM To Be Removed	Indicate Unit of Measurement Below
2. Category I ACM Not Removed		Cat I	UNIT
3. Category II ACM Not Removed		Cat II	
Pipes	CHRYSTOLE		28 FITTINGS
Surface Area	CHRYSTOLE		3900
No. RACM OR Facility Component			
VIII. SCHEDULED DATES ASBESTOS REMOVAL (IMMEDIATE)		Start: 3/9/92	Complete: 3/18/92
IX. SCHEDULED DATES DEMORENOVATION (IMMEDIATE)		Start: 3/21/92	Complete: 4/5/92

P 726350

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. Garry 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:		Nonfriable Asbestos Material Not To Be Removed	
2. Category I ACM Not Removed		Indicate Unit of Measurement Below	
3. Category II ACM Not Removed		UNIT	
Types	CHRYSTILE	28 FITTINGS	
Surface Area	CHRYSTILE	3900	
Vol. RACM of Enclos. Containment			
VIII. SCHEDULED DATES ASBESTOS REMOVAL (IMMEDIATE)		Start: MARCH 9, 1992	Complete: MARCH 23, 1992
IX. SCHEDULED DATES DEMO/RENOVATION (IMMEDIATE)		Start: MARCH 24, 1992	Complete: APRIL 5, 1992



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

ABC Systems Corporation
.865 Palmer Avenue
Suite 201, P.O. Box 918
Larchmont, New York 10538

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

INSURED

REVISED *This Revised Cert. #2 Supersedes and Replaces 1st Revision

COMPANY LETTER A

Reliance Insurance Co. of Illinois

COMPANY LETTER B

COMPANY LETTER C

National Abatement Corporation
100 Varick Street
New York, New York 10013

COMPANY LETTER D

Attn: Leann

COMPANY LETTER E

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

CD 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/PROP 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				BODILY INJURY (Per person) \$ _____
n/a	ALL OWNED AUTOS	n/a	n/a	n/a	BODILY INJURY (Per accident) \$ _____
	SCHEDULED AUTOS				PROPERTY DAMAGE \$ _____
	HIRED AUTOS				EACH OCCURRENCE \$ _____
	NON-OWNED AUTOS				AGGREGATE \$ _____
	GARAGE LIABILITY				STATUTORY LIMITS
	EXCESS LIABILITY				EACH ACCIDENT \$ _____
n/a	UMBRELLA FORM	n/a	n/a	n/a	DISEASE-POLICY LIMIT \$ _____
	OTHER THAN UMBRELLA FORM				DISEASE-EACH EMPLOYEE \$ _____
n/a	WORKER'S COMPENSATION	n/a	n/a	n/a	
	AND				
	EMPLOYERS' LIABILITY				

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
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

[Signature]



WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364

No. of Additional Sheets Attached

01

NYSDC PERMIT NUMBER 2A-189	EPA TRANSPORTER ID NUMBER NYD986873008	VEHICLE STATE & LICENSE NUMBER SEE LIST OF VEHICLES
--------------------------------------	--	---

THIS IS TO CERTIFY THAT:

BUSINESS NAME ASBESTOS CARTING CORP			
MAILING ADDRESS 1199 RANDALL AVE			
CITY BRONX N.Y. CITY	COUNTY BRONX	STATE NY	ZIP CODE 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

TSD# # 1 INFORMATION	WASTE	WASTE DESCRIPTION
0008 AMERICAN RECLAMATION CORP 130 STURBRIDGE RD RT 20 CHARLTON MA 01508	4216	CONTAMINATED DIRT, SOILS OR SAND
TSD# # 2 INFORMATION	WASTE	WASTE DESCRIPTION
NYD077444263 HEMICAL WASTE DISPOSAL C 42-14 19TH AVENUE ASTORIA NY 11105	4001 4002 F003 F005	NON-LISTED IGNITABLE WASTES NON-LISTED CORROSIVE WASTES NON-HAL SOLV & ST BTMS FM REC (XYLENE ETC) NON-HAL SOLV & STL BTMS FM REC (TOLUENE, MEK)
TSD# # 3 INFORMATION	WASTE	WASTE DESCRIPTION
NYD981182769 K B F - POLLUTION MANAGEM 1110 FARMINGDALE ROAD NORTH LINDENHURS NY 11757	0002 0011 F006 F007	NON-LISTED CORROSIVE WASTES SILVER 5.0MG/L TCLP WW TREAT SL FM ELECTROPLATING OPER PLATING BATH SOL FM ELECTROPLATING OPER

***** CONTINUED ON NEXT PAGE *****

P 726356

PAGE 1 OF 6 PAGES

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 1993 AND IS SUBJECT TO REVOCATION AT ANY TIME. THIS PERMIT IS NOT TRANSFERABLE.

EXPIRES 08 OF APRIL 1992

By Frank Liappa
New York State Department of Environmental Conservation

NOTE: This Permit does not relieve the transporter of the responsibility of complying with any other applicable

04/23/92 11:54

001

47-20-3 (5/90) -- 264

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 Additonal Sheets Attached

02

NYSDC PERMIT NUMBER 2A-189	EPA TRANSPORTER ID NUMBER NYD986873008	VEHICLE STATE & LICENSE NUMBER SEE LIST OF VEHICLES
-------------------------------	---	--

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY BRONX N.Y.CITY	COUNTY BRONX	STATE NY	ZIP CODE 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 MULDOON AVE TRUCKFILL (F MULDOON AVE STATEN ISLAND NY 10314	N807 ASBESTOS WASTE (SEE CONDITIONS)

TSDF # 5 INFORMATION	WASTE WASTE DESCRIPTION
00023 ASBESTOS CARTING CORP, 1199 RANDALL AVENUE BRONX NY 10474	N807 ASBESTOS WASTE (SEE CONDITIONS)

TSDF # 6 INFORMATION	WASTE WASTE DESCRIPTION
00018 ATHENS HOCKING RECLAMATIO RTE 33 BOX 946 LOGAN OH 43138	N807 ASBESTOS WASTE (SEE CONDITIONS)

***** CONTINUED ON NEXT PAGE *****

PAGE 2 OF 6 PAGES

P 726357

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 28 1993 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 signed on this 08 day of APRIL 1992

Frank T. ...
New York State Department of Environmental Conservation, Commissioner's Representative

19 20 3 (12/90) -- 76a



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 2A-189	EPA TRANSPORTER ID NUMBER NYD986873008	VEHICLE STATE & LICENSE NUMBER SEE LIST OF VEHICLES
--------------------------------	---	--

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY
BRONX N.Y. CITY

COUNTY
BRONX

STATE
NY

ZIP CODE
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 POTTSTOWN LANDFILL SELL ROAD POTTSTOWN PA 19464	N807 ASBESTOS WASTE (SEE CONDITIONS)

TSDF # 8 INFORMATION	WASTE WASTE DESCRIPTION
00095 VALLEY LANDFILL PLEASANT VALLEY RD BOX 28 IRWIN PA 15642	N807 ASBESTOS WASTE (SEE CONDITIONS)

TSDF # 9 INFORMATION	WASTE WASTE DESCRIPTION
00100 SOUTHERN ALLEGHENIES LAND RD 3 BOX 510 HOLSOPPLE PA 15935	N807 ASBESTOS WASTE (SEE CONDITIONS)

***** CONTINUED ON NEXT PAGE *****

FEBRUARY 28 93

THIS PERMIT WILL EXPIRE AT MIDNIGHT

CS

APRIL

92

IF ADDRESS WITHIN THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION HAS CHANGED THIS PERMIT IS TO BE REPRINTED ON THIS

17-20-1 (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 12233-7150

WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364

No. of Additional Sheets Attached

04

NYSDEC PERMIT NUMBER 2A-189	EPA TRANSPORTER ID NUMBER NYD986873008	VEHICLE STATE & LICENSE NUMBER SEE LIST OF VEHICLES
--------------------------------	---	--

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY
BRONX N.Y.CITY

COUNTY
BRONX

STATE
NY

ZIP CODE
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 #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

THIS PERMIT WILL EXPIRE AT MIDNIGHT FEBRUARY 23 1993 and is subject to termination at any time. This permit is not transferable.

In witness whereof the Department of Environmental Conservation has caused this permit to be printed on this 08 APRIL 92 day of 1992



WASTE TRANSPORTER PERMIT

Pursuant to 6 NYCRR Part 364

No. of Additional Sheets Attached

05

NYSDEC PERMIT NUMBER 2A-189	EPA TRANSPORTER ID NUMBER NYD986873008	VEHICLE STATE & LICENSE NUMBER SEE LIST OF VEHICLES
---------------------------------------	--	---

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY BRONX N.Y.CITY	COUNTY BRONX	STATE NY	ZIP CODE 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 23 93

IN WITNESS WHEREOF, THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION HAS CAUSED THIS PERMIT TO BE EXECUTED ON THIS 08 DAY OF APRIL 1992

47 70-1 (5/90)-264

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

NYSDC PERMIT NUMBER 2A-189	EPA TRANSPORTER ID NUMBER NYD986873008	VEHICLE STATE & LICENSE NUMBER LIST OF VEHICLES
-------------------------------	---	--

THIS IS TO CERTIFY THAT:

BUSINESS NAME
ASBESTOS CARTING CORP

MAILING ADDRESS
1199 RANDALL AVE

CITY BRONX N.Y.CITY	COUNTY BRONX	STATE NY.	ZIP CODE 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	1P1775
TV48396 ✓	TV06046 ✓	TV06047 ✓	TV06048 ✓	TV06049	TV06051

***** END OF PERMITTED VEHICLE LISTING *****

P 726361

FEBRUARY 28 93

THIS PERMIT WILL EXPIRE AT MIDNIGHT

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

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/mm ²)	(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	92A10640	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.

(2)

Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: March 27, 1992

LAB.NO.: 92-C5572(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.

(2)

P 726365

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.

(3)

P 726366

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	92A11067	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.

(4)

P 726367

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.

(2)

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.

(2)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0122 • (516) 334-7770 • (800) 433-0038 • FAX NO. 516-334-7720

000000

P 726369

Laboratory Testing Services

REPORT OF FIBER CONCENTRATION

REPORT DATE: April 10, 1992

LAB.NO.: 92-05572 (R2)

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.

(3)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720

11/11/92

P 726370

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.

(4)

P 726371

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 # 10637). 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.

(5)

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	92A127.2	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.

(6)

Laboratory Testing Services

LAB. NO.: 92-05572 (N1)

CERTIFICATION AND SIGNATURES:

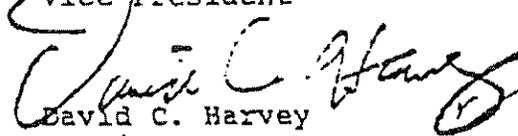
We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.



Paul Calzolano
Vice President



David C. Harvey
President

1cm

(5)

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 samples

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

Laboratory Testing Services

LAB. NO. : 92-05572 (K2)

APPENDIX A

CHAIN OF CUSTODY RECORDS

P 726375

JS921

1

ASBESTOS AIR SAMPLING RECORD

DATE: 3/9/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines Number 10 Core Floor V.A.T. Phase II

REQUESTED COMPLETION DATE: 3/11/92
 JOB NO: 7021-42 BAIGI NO: NY12294
 CLIENT NAME: American Airlines
 SAMPLE'S NAME: Bill Gibbons
 SIGNATURE: Bill Gibbons
 DATE: 3/9/92 TIME COMPLETED 1330

SAMPLE ID NO.	TYPE	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1 03099218101	PCM-C	2	Inside work area phase 2 center
2 03099218102	PCM-C	2	Inside work area phase 2 south
3 03099218103	PCM-C	2	Inside area phase 2 North
4 03099218101	PCM-C	2	Inside area phase 2 East
5 03099218205	PCM-C	2	Inside area phase 2 West
6 03099218400	PCM-E	2	Inside area phase 2 center
7 03099218407	PCM-E	2	Inside area phase 2 east
8 03099218408	PCM-E	2	Inside area phase 2 west
9 03099218409	PCM-E	2	Inside area phase 2 North
10 03099218410	PCM-E	2	Inside area phase 2 South
11 03099218411	PCM-E	2	Field Blank #2
12 03099218412	PCM-E	2	Field Blank #2

DELIVERED TO LAB BY: Hand delivered by Bill Gibbons
 LAB NAME: L.T.S.
 RECEIVED BY: Louis Allen
 DATE: 3/11/92 TIME: 9:00 AM INITIALS: LA
 ANALYST: Louis Allen SCOPE: MBE
 DATE COMPLETED: 3/11/92 TIME: 1:35
 ANALYSIS METHOD: NIOSH 7400
 APPROVAL SIGNATURE (PROJECT MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

SAMPLING ID NO.	FLOW METER ID NO.	AIR FLOWRATE (LPM)			SAMPLING TIME			VOL TIME (LITERS)	FIBERS / FEET	AVE RAGE IN BLANK COUNT	ANALYST'S CV	LOG	FIBERS PER CC	UPPER CONFIDENCE LIMIT
		START	STOP	AVERAGE	START	STOP	TOTAL							
1 10637	02274	11.4	11.4	11.4	0700	0840	100	1140					20004	
2 10638	02274	11.4	11.4	11.4	0700	0840	100	1140					20004	
3 10639	02274	11.4	11.4	11.4	0700	0840	99	1128.6					20004	
4 10640	02274	11.4	11.4	11.4	0700	0840	97	1128.6					20004	
5 10641	02274	11.4	11.4	11.4	0702	0840	98	1122.2					20004	
6 10642	02274	11.4	11.4	11.4	1210	1330	80	912					20005	
7 10643	02274	11.4	11.4	11.4	1210	1330	80	912					20005	
8 10644	02274	11.4	11.4	11.4	1211	1330	79	900.6					20005	
9 10645	02274	11.4	11.4	11.4	1211	1330	79	900.6					20005	
10 10646	02274	11.4	11.4	11.4	1212	1330	78	889.2					20006	
10647		B	L	A	N	K	#2						2000	
10648		B	L	A	N	K	#2						2000	

SPECIAL COMMENTS

* SAMPLE TYPE CODES

** WORK AREA ACTIVITY 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

- 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

MAXI

P 726376

15720

17)

ASBESTOS AIR SAMPLING RECORD

DATE: 3/10/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines Hangar 10 JFK EA, Core Floor V&T phase II

REQUESTED COMPLETION DATE: 3/12/92
 JOB NO: 7021-42 BATCH NO NY 12295
 CLIENT NAME: American Airlines
 SAMPLET'S NAME: Bill Birnbauer
 SIGNATURE: Bill Birnbauer
 DATE: 3/10/92 TIME COMPLETED 1430

SAMPLE ID NO	TYPE	ACTIVITY	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
03109218401	PCM-E	2	Inside area North Side
03109218402	PCM-E	2	Inside area South Side
03109218403	PCM-E	2	Inside area East Side
03109218404	PCM-E	2	Inside area center
03109218405	PCM-E	2	Inside area North Side
03109218406	PCM-E	2	Inside area South Side
03109218407	PCM-E	2	Field Blank #2
03109218408	PCM-E	2	Field Blank #2

DELIVERED TO LAB BY: Hand Delivered by Bill Birnbauer
 LAB NAME: C.T.S.
 RECEIVED BY: Louis Allen
 DATE: 3/11/92 TIME 8:52 INITIALS: LA
 ANALYST: Louis Allen SCOPE #: MTR
 DATE COMPLETED: 3/11/92 TIME 1:11
 ANALYSIS METHOD: NGOSH 7400
 APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

SAMPLE ID NO	FLOW RATE (LPM)	AIR FLOW RATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS PER CC	AVL RAGE BLANK COUNT	ANALYST'S CV	LOG	FIBERS PER CC	LIMIT (FIBERS PER CC)
		START	STOP	AVERAGE	START	STOP	TOTAL							
10629	02274	10.6	10.6	10.6	0905	1200	175	1855					<0.005	
10630	02274	10.6	10.6	10.6	0905	1200	175	1855					<0.005	
10631	02274	10.6	10.6	10.6	0905	1200	175	1855					<0.005	
10632	02274	10.6	10.6	10.6	1300	1435	95	1007					<0.005	
10633	02274	10.6	10.6	10.6	1300	1435	95	1007					<0.005	
10634	02274	10.6	10.6	10.6	1300	1435	95	1007					<0.005	
10635	02274	B	L	A	N	H	#2						<LOP	
10636	02274	B	L	A	N	H	#2						<LOP	

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

AXR

P 726377

16116

ASBESTOS AIR SAMPLING RECORD				DATE: 3/11/92	ACCOUNTABILITY RECORD PAGE 1 OF 1
BLDG. & PROJECT NAME: American Airlines Hangar 10, Core Floor VRT Phase II				REQUESTED COMPLETION DATE: 3/18/92 JOB NO.: 7021-42 BATCH NO.: NY12303	
CLIENT NAME: American Airlines SAMPLER'S NAME: Bill B. Borden SIGNATURE: <i>Bill Borden</i> DATE: 3/11/92 TIME COMPLETED:				DELIVERED TO LAB BY: <i>Frankie Liver</i> #6, 254 85 LAD NAME: L.T.S. RECEIVED BY: <i>John Allen</i> DATE: 3/13/92 TIME: 9:30 AM INITIALS: LJA ANALYST: <i>John Allen</i> SCOPE: M10 DATE COMPLETED: 3/15/92 TIME: 11:00 AM ANALYSIS METHOD: M3081 9400	
APPROVAL SIGNATURE (PROJECT MANAGER):					
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					

SAMPLING AND ANALYTICAL DATA								EFFECTIVE FILTER AREA		MM ² ; FIELD AREA		MM ²		
SAMPLE ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS / FILTRATION	AVERAGE BLANK COUNT	ANALYST'S CV	LOO	FIBERS PER CC	FIELD AREA (SQ FT)
		START	STOP	AVERAGE	START	STOP	TOTAL							
1 11092	02274	10.6	10.6	10.6	0915	1115	120	1272					2000	
2 11093	02274	10.6	10.6	10.6	0916	1115	119	1261.4					2000	
3 11094	02274	10.6	10.6	10.6	0916	1115	119	1261.4					2000	
4 11095	02274	10.6	10.6	10.6	1300	1430	70	754					2000	
5 11096	02274	10.6	10.6	10.6	1300	1430	70	754					2000	
6 11097	02274	10.6	10.6	10.6	1301	1430	89	743.4					2000	
7 11098				A	N	K	72						2000	
8 11099				A	N	K	132						2000	
9														
10														

SPECIAL COMMENTS

* SAMPLE TYPE CODES

- PCM PHASE CONTRAST MICROSCOPY
- TEM TRANSMISSION ELECTRON MICROSCOPY
- SIM 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

TAXI

P 726378

J6115

70

ASBESTOS AIR SAMPLING RECORD

DATE: 3/12/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines Hangar 10, Gate Floor VOT Phase II

REQUESTED COMPLETION DATE: 3/14/92
 JOB NO: 7021-42 BATCH NO: NY12315
 CLIENT NAME: American Airlines
 SAMPLER'S NAME: Bill Bernbaum
 SIGNATURE: Bill Bernbaum
 DATE: 3/12/92 TIME COMPLETED: 1410

SAMPLE ID NO	TYPE	ACTIVITY	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1 03129218401	PCM	2	Inside work area East Side
2 03129218402	PCM	2	Inside work area South Side
3 03129218403	PCM	2	Inside work area North Side
4 03129218404	PCM	2	Inside work area North Side
5 03129218405	PCM	2	Inside work area South Side
6 03129218406	PCM	2	Inside work area adjacent to Air terminal on Facility
7 03129218407	PCM	2	Field Blank #1
8 03129218408	PCM	2	Field Blank #2

DELIVERED TO LAB BY: Hand Delivered by Bill Bernbaum
 LAB NAME: C.T.S.
 RECEIVED BY: Louis Allen
 DATE: 3/13/92 TIME: 7:30 INITIALS: LA
 ANALYST: Louis Allen SCOPE: All
 DATE COMPLETED: 3/13/92 TIME: 11:17
 ANALYSIS METHOD: NIOSH 7400
 APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

SAMPLE ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS PER CC	AVERAGE BLANK COUNT	ANALYST'S CV	LOG	FIBERS PER CC	TOTAL
		START	STOP	AVERAGE	START	STOP	TOTAL							
1 11084	02274	10.6	10.6	10.6	0710	1045	95	1007					60.06	
2 11085	02274	10.6	10.6	10.6	0710	1045	95	1007					60.06	
3 11086	02274	10.6	10.6	10.6	0711	1045	94	996.4					60.06	
4 11087	02274	10.6	10.6	10.6	1248	1410	82	867.2					60.06	
5 11088	02274	10.6	10.6	10.6	1250	1410	80	848					60.06	
6 11089	02274	10.6	10.6	10.6	1250	1410	80	848					60.06	
7 11090		B	L	A	N	K	#2						60.06	
8 11091		B	L	A	N	K	#2						60.06	

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 NEPA 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

P 726379

16322

5572(10)/11

ASBESTOS AIR SAMPLING RECORD				DATE: 3/13/92	ACCOUNTABILITY RECORD PAGE 1 OF 1																																																				
BLDG. & PROJECT NAME: <i>American Airlines Hangar 10, Gate Floor VAT phase II</i>				REQUESTED COMPLETION DATE:																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID NO</th> <th>TYPE</th> <th>ACTIVITY</th> <th>DESCRIPTION OF SAMPLING LOCATION & COMMENTS</th> </tr> </thead> <tbody> <tr><td>1</td><td>PCM-D</td><td>2</td><td>Inside Clean Room Decontamination Facility</td></tr> <tr><td>2</td><td>PCM-D</td><td>2</td><td>Outside adjacent to Decontamination Facility Entrance</td></tr> <tr><td>3</td><td>PCM-D</td><td>2</td><td>Outside at HEPA Exhaust</td></tr> <tr><td>4</td><td>PCM-D</td><td>2</td><td>Outside adjacent to G.F.E. Panel</td></tr> <tr><td>5</td><td>PCM-D</td><td>2</td><td>Outside by critical door</td></tr> <tr><td>6</td><td>PCM-D</td><td>2</td><td>Inside Clean Room Decontamination Facility</td></tr> <tr><td>7</td><td>PCM-D</td><td>2</td><td>Outside adjacent to Decontamination Facility Entrance</td></tr> <tr><td>8</td><td>PCM-D</td><td>2</td><td>Outside at HEPA Exhaust</td></tr> <tr><td>9</td><td>PCM-D</td><td>2</td><td>Outside adjacent to G.F.E. Panel</td></tr> <tr><td>10</td><td>PCM-D</td><td>2</td><td>Outside by critical door</td></tr> <tr><td>11</td><td>PCM-D</td><td>2</td><td>Field Blank #2</td></tr> <tr><td>12</td><td>PCM-D</td><td>2</td><td>Field Blank #2</td></tr> </tbody> </table>				SAMPLE ID NO	TYPE	ACTIVITY	DESCRIPTION OF SAMPLING LOCATION & COMMENTS	1	PCM-D	2	Inside Clean Room Decontamination Facility	2	PCM-D	2	Outside adjacent to Decontamination Facility Entrance	3	PCM-D	2	Outside at HEPA Exhaust	4	PCM-D	2	Outside adjacent to G.F.E. Panel	5	PCM-D	2	Outside by critical door	6	PCM-D	2	Inside Clean Room Decontamination Facility	7	PCM-D	2	Outside adjacent to Decontamination Facility Entrance	8	PCM-D	2	Outside at HEPA Exhaust	9	PCM-D	2	Outside adjacent to G.F.E. Panel	10	PCM-D	2	Outside by critical door	11	PCM-D	2	Field Blank #2	12	PCM-D	2	Field Blank #2	JOB NO: 7021-92 BATCH NO: NY12325 CLIENT NAME: American Airlines SAMPLE ID NAME: Bill Brinkman SIGNATURE: <i>Bill Brinkman</i> DATE: 3/13/92 TIME COMPLETED: 1510 DELIVERED TO LAB BY: <i>Terri McLaughlin, Bill</i> LAB NAME: <i>L.T.S.</i> RECEIVED BY: DATE: TIME: INITIALS: ANALYST: <i>Terri McLaughlin</i> SCOPE: <i>Phase II</i> DATE COMPLETED: 3/16/92 TIME: ANALYSIS METHOD: <i>NIOSH 7400 (A.P.C.C.)</i> APPROVAL SIGNATURE (PROJECT MANAGER):	
SAMPLE ID NO	TYPE	ACTIVITY	DESCRIPTION OF SAMPLING LOCATION & COMMENTS																																																						
1	PCM-D	2	Inside Clean Room Decontamination Facility																																																						
2	PCM-D	2	Outside adjacent to Decontamination Facility Entrance																																																						
3	PCM-D	2	Outside at HEPA Exhaust																																																						
4	PCM-D	2	Outside adjacent to G.F.E. Panel																																																						
5	PCM-D	2	Outside by critical door																																																						
6	PCM-D	2	Inside Clean Room Decontamination Facility																																																						
7	PCM-D	2	Outside adjacent to Decontamination Facility Entrance																																																						
8	PCM-D	2	Outside at HEPA Exhaust																																																						
9	PCM-D	2	Outside adjacent to G.F.E. Panel																																																						
10	PCM-D	2	Outside by critical door																																																						
11	PCM-D	2	Field Blank #2																																																						
12	PCM-D	2	Field Blank #2																																																						

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA MM²; FIELD AREA MM²

SAMPLE ID NO	FLOW METER ID. NO.	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS / FILTS	AVERAGE BLANK COUNT	ANALYST'S CV	LOO	FIBERS PER CC	FIELD CORRECTION FACTOR
		START	STOP	AVERAGE	START	STOP	TOTAL							
1	11724	02274	7.5	7.5	7.5	10:15	10:30	1:35	1012.5				20.005	
2	11725	02274	7.5	7.5	7.5	10:35	12:30	1:35	1012.5				20.005	
3	11726	02274	7.5	7.5	7.5	10:17	12:30	1:33	997.5				20.005	
4	11727	02274	7.5	7.5	7.5	10:17	12:30	1:33	997.5				20.005	
5	11728	02274	7.5	7.5	7.5	10:18	12:30	1:33	990				20.007	
6	11729	02274	7.5	7.5	7.5	13:35	15:10	1:35	712.5				20.007	
7	11730	02274	7.5	7.5	7.5	13:36	15:10	1:34	705				20.007	
8	11731	02274	7.5	7.5	7.5	13:35	15:10	1:35	690				20.007	
9	11732	02274	7.5	7.5	7.5	13:36	15:10	1:34	675				20.007	
10	11733	02274	7.5	7.5	7.5	13:36	15:10	1:34	675				20.007	
11	11731		B	C	A	N	N	0.1					20.00	
12	11733		B	C	A	N	N	0.2					20.00	

SPECIAL COMMENTS

*** SAMPLE TYPE CODES**

**** WORK AREA ACTIVITY CODES**

PCM PHASE CONTRAST MICROSCOPY	D OUTSIDE WORK AREA	1 PRELABORATORY BACKGROUND	7 WORK AREA CLEARANCE
TEM TRANSMISSION ELECTRON MICROSCOPY	E INSIDE WORK AREA	2 PREPARATION OF WORK AREA	8 MAINTENANCE ACTIVITY
SFM SCANNING ELECTRON MICROSCOPY	F AIR QUALITY/ENVIRONMENTAL	3 ASBESTOS REMOVAL WORK	9 ACBM REPAIR ACTIVITY
A PERSONAL EXPOSURE SAMPLE	G HEPA EXHAUST DISCHARGE	4 CLEAN UP OF WORK AREA	10 ACBM ENCAPSULATION OR ENCLOSURE
D WORK AREA CLEARANCE	H DECONTAMINATION FACILITY	5 WASTE REMOVAL	11 CLEANING OR DECONTAMINATION
C PRELABORATORY BACKGROUND	I BLANK SAMPLE	6 GLOVE BAG REMOVAL WORK	12 NOT APPLICABLE

P 726380

ASBESTOS AIR SAMPLING RECORD

DATE: 3/16/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines Hangar 10, JFK EA, Co-2 Floor VOT phase II

REQUESTED COMPLETION DATE: 3/17/92
 JOB NO.: 7021-92 BATCH NO. NY12334
 CLIENT NAME: American Airlines
 SAMPLE'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: C.T.S.
 RECEIVED BY: Louis Allen
 DATE: 3/18/92 TIME: 10:00 AM INITIALS: LA/AL
 ANALYST: Louis Allen SCOPE #: M100
 DATE COMPLETED: 3/18/92 TIME: 1205
 ANALYSIS METHOD: NIOSH 7400
 APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLE ID NO	TYPE	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1 03169218901	RM-D	2	Adjacent to HCLPA (NAU) Exhaust
2 03169218902	RM-D	2	Adjacent to Critical door
3 03169218903	RM-D	2	next to G.F.E. Panel
4 03169218904	RM-D	2	Outside of Entrance to the Decontamination Facility
5 03169218905	RM-D	2	Inside clean room of Decontamination Facility
6 03169218906	RM-D	2	Adjacent to HEPA (NAU) Exhaust
7 03169218907	RM-D	2	Adjacent to critical door
8 03169218908	RM-D	2	next to G.F.E. Panel
9 03169218909	RM-D	2	Outside of Entrance to the Decontamination Facility
10 03169218910	RM-D	2	Inside Clean Room of Decontamination Facility
11 03169218911	RM-I	2	Field Blank #2
12 03169218912	RM-I	2	Field Blank #2

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

SAMPLE ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	LITERS / MIN	AVERAGE INLAK COUNT	ANALYST'S CV	LOO	FIBERS PER CC	FIELD EQUIPMENT ID NO
		START	STOP	AVERAGE	START	STOP	TOTAL							
1 11987	02274	7.5	7.5	7.5	0746	1015	149	1117.5	14.7				60007	
2 11988	02274	7.5	7.5	7.5	0747	1015	148	1110	14.7				60007	1000
3 11989	02274	7.5	7.5	7.5	0747	1015	148	1110	14.7				60007	
4 11990	02274	7.5	7.5	7.5	0748	1015	147	1102.5	14.7				60007	
5 11991	02274	7.5	7.5	7.5	0748	1015	147	1102.5	14.7				60007	
6 11992	02274	7.5	7.5	7.5	1145	1415	150	1125	15.0				60007	
7 11993	02274	7.5	7.5	7.5	1146	1415	149	1117.5	14.9				60007	
8 11994	02274	7.5	7.5	7.5	1147	1415	148	1110	14.8				60007	
9 11995	02274	7.5	7.5	7.5	1147	1415	148	1110	14.8				60007	
10 11996	02274	7.5	7.5	7.5	1148	1415	147	1102.5	14.7				60007	
11 11997		B	L	A	N	K	7.2						60007	
12 11998		B	L	A	N	K	7.2						60007	

SPECIAL COMMENTS:

* SAMPLE TYPE CODES

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

** WORK AREA ACTIVITY CODES

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

P 726381

J6128

(

ASBESTOS AIR SAMPLING RECORD				DATE: 3/17/92		ACCOUNTABILITY RECORD PAGE 1 OF 1													
BLDG. & PROJECT NAME: American Airlines J.F.K. Hangar 10, Core Floor V&T phase II				REQUESTED COMPLETION DATE: 3/18/92		JOB NO. 7021-42 BATCH NO. NY12336													
CLIENT NAME: American Airlines				SAMPLER'S NAME: Bill Birnbaum		SIGNATURE: <i>Bill Birnbaum</i>													
DATE: 3/17/92				TIME COMPLETED:		DELIVERED TO LAB BY: Hand delivered by Bill T.													
LAB NAME: L.T.S.				RECEIVED BY: Louis Allen		DATE: 3/18/92 TIME: 8:00 AM INITIALS: LA													
ANALYST: Louis Allen				SCOPE: MHA		DATE COMPLETED: 3/18/92 TIME: 11:00 AM													
ANALYSIS METHOD: NIOSH 7400				APPROVAL SIGNATURE (PROJECT MANAGER):															
SAMPLING AND ANALYTICAL DATA				EFFECTIVE FILTER AREA		MM ² ; FIELD AREA													
PUMP ID NO.	FLOW METER ID NO.	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS / FIELDS	AVERAGE (BLANK COUNT)	ANALYST'S CV	LOO	FIBERS PER CC	FIELD EQUIPMENT					
		START	STOP	AVERAGE	START	STOP	TOTAL												
1	02274	7.5	7.5	7.5	7:55	10:25	150	1125	/				2000						
2	02274	7.5	7.5	7.5	07:56	10:25	149	1117.5	/				2000						
3	02274	7.5	7.5	7.5	07:56	10:25	149	1117.5	/				2000						
4	02274	7.5	7.5	7.5	07:58	10:25	147	1102.5	/				2000						
5	02274	7.5	7.5	7.5	07:58	10:25	147	1102.5	/				2000						
6	02274	7.5	7.5	7.5	12:25	14:30	125	937.5	/				2000						
7	02274	7.5	7.5	7.5	12:26	14:30	124	930	/				2000						
8	02274	7.5	7.5	7.5	12:26	14:30	124	930	/				2000						
9	02274	7.5	7.5	7.5	12:27	14:30	123	922.5	/				2000						
10	02274	7.5	7.5	7.5	12:27	14:30	123	922.5	/				2000						
11		B	L	A	N	K	#1		/				2000						
12		B	L	A	N	K	#2		/				2000						
SPECIAL COMMENTS																			
* SAMPLE TYPE CODES							** WORK AREA ACTIVITY CODES												
PCM	PHASE CONTRAST MICROSCOPY				D	OUTSIDE WORK AREA				1	PREABATEMENT BACKGROUND				J	WORK AREA CLEARANCE			
TEM	TRANSMISSION ELECTRON MICROSCOPY				E	INSIDE WORK AREA				2	PREPARATION OF WORK AREA				K	MAINTENANCE ACTIVITY			
SEM	SCANNING ELECTRON MICROSCOPY				F	AIR QUALITY/ENVIRONMENTAL				3	ASBESTOS REMOVAL WORK				L	ACRM REPAIR ACTIVITY			
A	PERSONAL EXPOSURE SAMPLE				G	HEPA EXHAUST DISCHARGE				4	CLEAN UP OF WORK AREA				M	ACRM ENCAPSULATION OR ENCLOSURE			
B	WORK AREA CLEARANCE				H	DECONTAMINATION FACILITY				5	WASTE REMOVAL				N	CLEANING OR DECONTAMINATION			
C	PREABATEMENT BACKGROUND				I	BLANK SAMPLE				6	GLOVE BAG REMOVAL WORK				12	NOT APPLICABLE			
COPYRIGHT MARCH 1990, HYGIENICS, INC./DATE LAST REVISED							CLIENT BILLING INSTITUTIONS				SAMPLES @-\$				S				

P 726382

16, 15

15

ASBESTOS AIR SAMPLING RECORD

DATE: 3/18/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines Hangar 10 JFH, Core Floor 4th Floor

REQUESTED COMPLETION DATE 3/20/92

JOB NO: 70-21-92 BATCH NO: NY12344

CLIENT NAME: American Airlines

SAMPLER'S NAME: Bill Birnbaum

SIGNATURE: Bill Birnbaum

DATE: 3/18/92 TIME COMPLETED

DELIVERED TO LAB BY: Thomas G. ...

LAB NAME: L.T.S.

RECEIVED BY: ...

DATE: 3/11/92 TIME 8:40 INITIALS: ...

ANALYST: ... SCOPE: ...

DATE COMPLETED 3/19/92 TIME

ANALYSIS METHOD: ... (17 Rule)

APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLE ID NO	TYPE	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
1 03189218401	RM-D	3	At HEPA (MAUS) Exhaust
2 03189218402	RM-D	3	Adj. to Critical Area
3 03189218403	RM-D	3	Adj. to G.F.E. Panel
4 03189218404	RM-D	5	Outside Entrance to Decontamination Facility
5 03189218405	RM-D	5	Inside Clean Room of Decontamination Facility
6 03189218406	RM-D	3	At HEPA (MAUS) Exhaust
7 03189218407	RM-D	3	Adj. to Critical Area
8 03189218408	RM-D	3	Adj. to G.F.E. Panel
9 03189218409	RM-D	5	Outside Entrance to Decontamination Facility
10 03189218410	RM-D	5	Inside Clean Room of Decontamination Facility
11 03189218411	RM-I	3	FIELD BLANK #2
12 03189218412	RM-I	3	FIELD BLANK #2

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA _____ MM²; FIELD AREA _____ MM²

SAMP ID NO	FLOW METER ID NO	AIR FLOW RATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS / FEET ³	AVERAGE BLANK COUNT	ANALYST'S CV	LOG	FIBERS / FEET ³ CC	FIELD AREA (MM ²)
		START	STOP	AVERAGE	START	STOP	TOTAL							
1	022275	7.5	7.5	7.5	0825	1025	140	1050					20.005	
2	022274	7.5	7.5	7.5	0806	1025	139	1042.5					20.005	
3	022271	7.5	7.5	7.5	0806	1025	139	1042.5					20.005	
4	022274	7.5	7.5	7.5	0809	1025	136	1020					20.005	
5	022271	7.5	7.5	7.5	0809	1025	136	1020					20.005	
6	022274	7.5	7.5	7.5	1245	1510	145	1087.5					20.005	
7	022271	7.5	7.5	7.5	1246	1510	144	1080					20.005	
8	022271	7.5	7.5	7.5	1247	1510	143	1072.5					20.005	
9	022271	7.5	7.5	7.5	1248	1510	142	1065					20.005	
10	022274	7.5	7.5	7.5	1248	1510	142	1065					20.005	
11		B	L	A	N	K	#2						20.00	
12		B	L	A	N	K	#2						20.00	

SPECIAL COMMENTS

* SAMPLE TYPE CODES

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

** WORK AREA ACTIVITY CODES

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

P 726383

16132

E

ASBESTOS AIR SAMPLING RECORD

DATE: 3/20/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines J.F.K. Hangar 10 Case Floor VII Wash DC

REQUESTED COMPLETION DATE: 3/22/92
 JOB NO: 7021-42 BATCH NO:
 CLIENT NAME: American Airlines
 SAMPLER NAME: Bill Braham
 SIGNATURE: Bill Braham
 DATE: 3/20/92 TIME COMPLETED: 1015

SAMPLE ID NO	TYPE	ACTIVITY**	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
03209218401	PCM-D	3	Adjustment to HEPA (NAVs) Exhaust
03209218402	PCM-O	3	Adjustment to Critical Door
03209218403	PCM-D	3	Test in G.I. Panel
03209218404	PCM-D	3	Outside Entrance to Decontamination Facility
03209218405	PCM-O	3	Inside Clean Room of Decontamination Facility
03209218406	PCM-Z	3	Field Blank #2
03209218407	PCM-Z	3	Field Blank #2

DELIVERED TO LAB BY: Hand delivered by Bill Braham
 LAB NAME: L.T.S.
 RECEIVED BY: Louis Allen
 DATE: 3/22/92 TIME: 5:45 INITIALS: LA
 ANALYST: Louis Allen SCOPE: Mtb
 DATE COMPLETED: 3/22/92 TIME: 9:00
 ANALYSIS METHOD: NIOSH 7400
 APPROVAL SIGNATURE (PROJECT MANAGER):

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA MM²: FIELD AREA MM²

SAMPLE ID NO	FLOW METER ID NO	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS / LITER	AVERAGE BLANK COUNT	ANALYST'S CV	LOG	FIBERS PER CC	FIELD AREA (MM ²)
		START	STOP	AVERAGE	START	STOP	TOTAL							
1	02274	7.5	7.5	7.5	0800	1015	135	1012.5					60.00	
2	02274	7.5	7.5	7.5	0801	1015	134	1005					60.00	
3	02274	7.5	7.5	7.5	0802	1015	133	997.5					60.00	
4	02274	7.5	7.5	7.5	0802	1015	133	997.5					60.00	
5	02274	7.5	7.5	7.5	0801	1015	134	982.5					60.00	
6		B	L	A	N	K	#2						60.00	
7		B	L	R	N	K	#2						60.00	

SPECIAL COMMENTS

* SAMPLE TYPE CODES

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

** WORK AREA ACTIVITY CODES

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

P 726384

1613.3

1-

ASBESTOS AIR SAMPLING RECORD

DATE: 3/21/92

ACCOUNTABILITY RECORD PAGE 1 OF 1

BLDG. & PROJECT NAME: American Airlines JFK Hangar 10, Core 100-V03 (Phase 1)

REQUESTED COMPLETION DATE: 3/21/92

SAMPLE ID NO	TYPE	ACTIVITY	DESCRIPTION OF SAMPLING LOCATION & COMMENTS
03229218401	PM-B	7	Inside wall area by Disassembly, Fiready, East
03229218402	PM-B	7	Inside wall area north side
03229218403	PM-B	7	Inside wall area center
03229218404	PM-B	7	Inside wall area South side
03229218405	PM-B	7	Inside wall area West side
03229218406	PM-B	7	Field Blank #2
03229218407	PM-B	7	Field Blank #2

JOB NO: 7021-92
 CLIENT NAME: American Airlines
 SAMPLER'S NAME: Bill Brennan
 SIGNATURE: Bill Brennan
 DATE: 3/21/92 TIME COMPLETED

DELIVERED TO LAB BY: Hand Delivered by Bill Brennan
 LAB NAME: L.F.S.
 RECEIVED BY: Lewis Allen
 DATE: 3/22/92 TIME: 8:15 INITIALS: L.A.
 ANALYST: Lewis Allen SCOPE: MHC
 DATE COMPLETED: 3/22/92 TIME: 9:17
 ANALYSIS METHOD: MESH 7400
 ADDITIONAL SIGNATURE (OFFICE MANAGER)

SAMPLING AND ANALYTICAL DATA

EFFECTIVE FILTER AREA MM²: FIELD AREA MM²

SAMPLER ID NO	FLOWMETER ID NO	AIR FLOWRATE (LPM)			SAMPLING TIME			VOLUME (LITERS)	FIBERS PER CC	ANALYST'S CV	LOG	FIBERS PER CC	FIELD AREA MM ²
		START	STOP	AVERAGE	START	STOP	TOTAL						
12118	022274	13.3	13.3	13.3	0115	0340	145	1928.5				2000	
12119	022274	13.3	13.3	13.3	0116	0340	144	1915.2				2000	
12120	022274	13.3	13.3	13.3	0116	0340	144	1915.2				2000	
12121	022274	13.3	13.3	13.3	0117	0340	143	1901.9				2000	
12122	022274	13.3	13.3	13.3	0117	0340	143	1901.9				2000	
12135		B	L	A	N	R	#2					2000	
12137		B	L	A	N	R	#2					2000	

SPECIAL COMMENTS

Reference Samples - Fax Results to 212-985-8776 - RUSH!!

* SAMPLE TYPE CODES

** WORK AREA ACTIVITY CODES

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

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

P 726385

CLIENT DURING INSTRUCTIONS

SAMPLES # 5

5

ATTACHMENT C
N.A.C. Worker Submittals

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726386

CITY of
NEW YORK

ASBESTOS CERTIFICATE



SUPERVISOR
 CERTIFICATION NUMBER: 88854
 LAST NAME: CARTER
 FIRST NAME: EDOUDE
 M 44YRS 5-10 110-00
 EX 1
 EXPIRATION DATE: 07-19-88 21347

CITY of
NEW YORK

ASBESTOS CERTIFICATE



HANDLER
 CERTIFICATION NUMBER: 87878
 LAST NAME: SQUIRE
 FIRST NAME: JAMES J.
 M 29YRS 5-07 150-00
 EX 1
 EXPIRATION DATE: 05-23-88 21428

CITY of
NEW YORK

ASBESTOS CERTIFICATE



SUPERVISOR
 CERTIFICATION NUMBER: 88448
 LAST NAME: KEANE
 FIRST NAME: CHRISTOPHER
 M 25YRS 6-04 250-00
 EX 1
 EXPIRATION DATE: 08-12-88 35485

CITY of
NEW YORK

ASBESTOS CERTIFICATE



HANDLER
 CERTIFICATION NUMBER: 87988
 LAST NAME: FARSE
 FIRST NAME: JOSE
 M 29YRS 6-00 156-00
 SOCIAL SECURITY NUMBER: [REDACTED]
 EX 1
 EXPIRATION DATE: 04-04-88 21492

CITY of
NEW YORK

ASBESTOS CERTIFICATE



HANDLER
 CERTIFICATION NUMBER: 88867
 LAST NAME: YARELA
 FIRST NAME: CARLOS
 M 43YRS 5-07 150-00
 EX 1
 EXPIRATION DATE: 10-02-88 21485

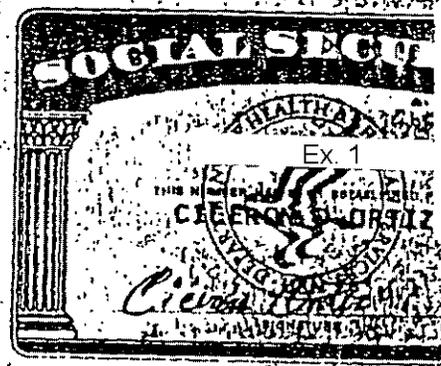
P 726387

TRAINING ON ASBESTOS PROJECTS

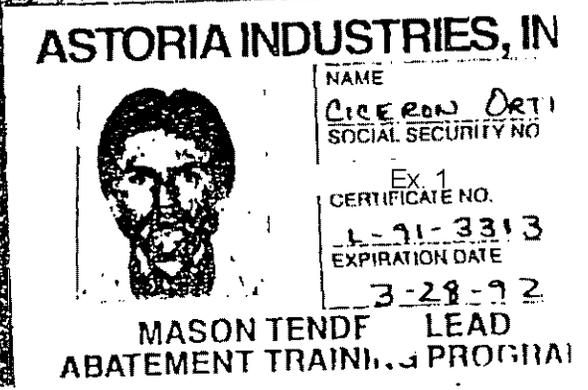
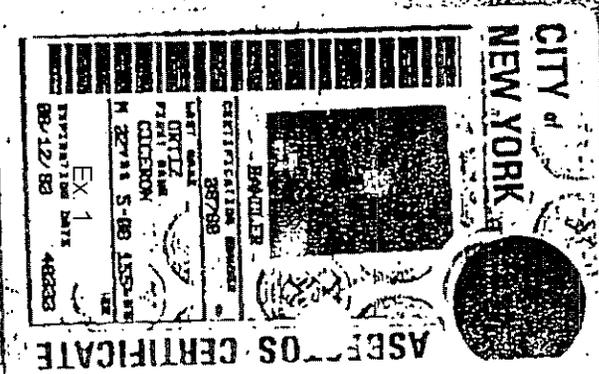
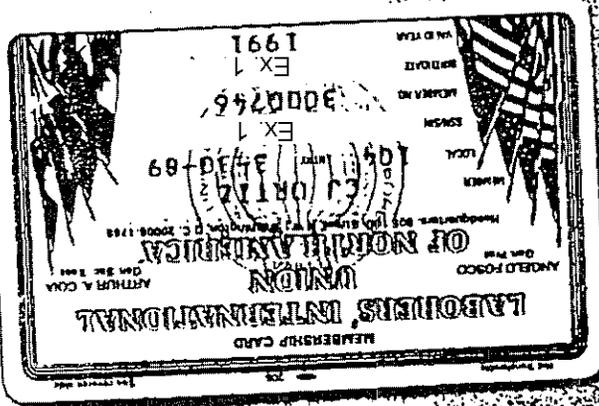


CERTIFICATE NUMBER AH BH-00277	
EXPIRES	
SOCIAL SECURITY NUMBER Ex 1	
EYES BRN	HAIR BRN
WEIGHT 155 lbs.	HEIGHT 5 ft. 05 in.

AMERICAN CONFEDERATION OF
LABOR (include certificate number)
NYS Department of Labor
DOSH License and Certificate Unit
One Main Street, Brooklyn, NY 11201



P 726388



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, employees, 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 Inc. 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

Signed in the presence of:

Sworn to and Subscribed before me this 2 Day of July, 1989

KAREN GRANDC
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 23, 1991

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 X.

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.

Robert Brown
Signature

2/1/90
Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature

Title

2/1/90
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, employees, 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 Konarski

Address: Ex. 1

Signature: Ryszard Konarski

Social Security Number: Ex. 1

Signed in the presence of:

Sworn to and Subscribed before me
this 5 Day of July, 1989

NEW BRUNSWICK
County, State of New York
No. 4890125
Suffolk County
Notary Public Expires April 23, 1991

P 726393

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME

Dyszowski Konarzowska

ADDRESS (Optional)

EMPLOYER

IAR

ADDRESS

Woods Hole N V.

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.

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, employees, 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 JACQUEL

Address: Ex. 1

Signature: [Handwritten Signature]

Social Security Number : Ex. 1

KAREN GRANDO
Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 1977

Signed in the presence of:

Sworn to and Subscribed before me
this 6 Day of Dec, 1969

P 726396

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.

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.

Robert Marino
Signature

02/11/97
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, employees, 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 August, 1989

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 1991

P 726399

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME

HENRYK SWITA

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

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: KRYSTYNA WALESIOZYNSKA

Address: _____ Ex. 1

Signature: [Handwritten Signature]

Social Security Number EX. 1

Signed in the presence of:

Sworn to and Subscribed before me
this 26 Day of June, 1999

P 726402

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County, New York
Commission Expires April 20, 1999

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME

KRUSTYNA H-05 52020 W-22

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.

Kristina Rodin
Signature

021 011 191
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: MALGORZATA OSINSKA

Address: Ex 1

Signature: ~~Malgorzata Osinska~~ Malgorzata Osinska

Social Security Number : Ex 1

KAREN GRANDO
Notary Public, State of New York
No. 4890125
Qualified in Suffolk County
Commission Expires April 20, 1991

Signed in the presence of:

Sworn to and Subscribed before me
this 4th Day of July, 1987

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME

OSIŃSKA MALGORZATA

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.

Morgantha Owhilke
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, employees, 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: RYSHARD NOLSKI

Address: _____ Ex. 1

Signature: Ryszard Nolski

Social Security Number : _____ Ex. 1

Signed in the presence of:

Sworn to and Subscribed before me
this 2 Day of Jan, 1989

KAREN GRANDO
Notary Public, State of New York
No. 489025
Qualified in Suffolk County
Commission Expires April 20, 1990

P 726408

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME

RYSHARDI 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.

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.

Edward H. H. H.
Signature

02. 21. 1991
Date

Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature

Title

Date

Print Name

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.

Edward H. H. H.
Signature

02. 01. 1991
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, employees, 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 KAZURA

Address: Ex. 1

Signature: [Handwritten Signature]

Social Security Number : Ex. 1

P 726412

Signed in the presence of:

Sworn to and Subscribed before me 109
this 25 Day of February 1989
Notary Public State of New York
No. 314572000
Office 1000 1st St. N.Y.C.

[Handwritten Signature]
NOTARY PUBLIC

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME JAN KORZUB
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.

Tom Ford
Signature

01.23.91
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: DZIEDZIC JAN

Address: Ex. 1

Signature: [Handwritten Signature]

Social Security Number : Ex 1

P 726415

Signed in the presence of:

Sworn to and Subscribed before me
this 25 Day of February 1991

Notary Public for the State of New York

[Handwritten Signature]

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME 74W DRIBDIE
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.

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: JAW 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 January, 1989

NOTARY PUBLIC IN THE STATE OF NEW YORK

[Signature]

Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME JAN KULECZAK
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.

Frank J. [Signature]
Signature

01.23.91
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: HENRYE BIENKOWSKI

Address: Ex. 1

Signature: Henry Bienkowski

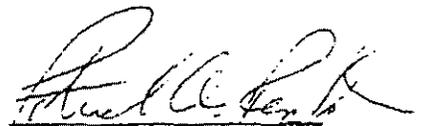
Social Security Number : Ex. 1

P 726421

Signed in the presence of:

Sworn to and Subscribed before me
this 25 Day of February, 1989

DATRICK A. REYNOLDS
Notary Public, State of New York



Documentation of Worker Training Form

ASBESTOS TRAINING CHECKLIST

NAME HENEY BIEKOWSKI
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.

Hamilton Bickel
Signature

01.23.91
Date

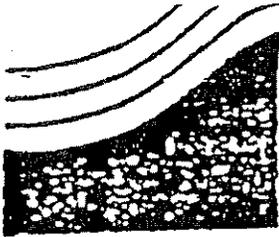
Signature of Contractor/Designated Representative who verifies the above information is correct.

Signature

Title

Date

Print Name



CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR RESOURCES
235 LAFAYETTE STREET, NEW YORK, N.Y. 10012

ALBERT P. APPLETON
Commissioner

SAMUEL STEPLER, P.E.
Assistant Commissioner

APPENDIX A

MEDICAL EXAMINATION FOR ASBESTOS WORKERS

APPLICANT NAME: Eddio L. Carter
HOME ADDRESS: _____ Ex. 1

TELEPHONE NUMBER: _____ Ex. 1
DATE OF BIRTH: _____ Ex. 1
SOCIAL SECURITY NUMBER _____ Ex. 1



NOT VALID WITHOUT SEAL

BASED UPON THE MEDICAL EXAMINATION WHICH INCLUDED PULMONARY FUNCTION TESTS OF VITAL CAPACITY (FVC) AND FORCED EXPIRATORY VOLUME AT ONE SECOND (FEV₁) AND AN EVALUATION OF A RECENT CHEST ROENTGENGRAM 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:



ME 1792

R. M. J. K. M.D.
NAME OF PHYSICIAN
[Signature]
SIGNATURE OF PHYSICIAN

STATE LICENSE NUMBER

2/17/92
DATE OF EXAMINATION
[Address]
ADDRESS
[Telephone Number]
TELEPHONE NUMBER

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
- 2. Odorous vapor test
- 3. Taste Test

- 1. Aerosol
- 2. Gas
- 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 Mairanaw 2-18-92
Name Date

Maman Mairanaw
Signature Address

Telephone Number



OFFICE OF THE COMMISSIONER, CITY OF NEW YORK -- BUREAU OF FIRE PREVENTION
250 LIVINGSTON ST., BROOKLYN, N. Y. 11201 -- 6884

CERTIFICATE OF FITNESS (A)

CERTIFICATE NUMBER	ISSUED	EXPIRES	ISSUED BY
11	10-11-70	10-11-71	10-11-70

TYPE OF EXAMINATION: **TOOTH CHECK OF DENTIST**
 NAME: **OSCAR ROSENBERG**
 ADDRESS: **X. 1**

NO. OF SECURITY NO.	DATE	SEX	HEIGHT	WEIGHT
11	10-11-70	M	5-11"	205 LBS

NO.	YES	CITY EMPLOYEE
11	11-11-70	11

EMPLOYER:

WORK ADDRESS:

NOT PROVIDED

SIGNATURE: *M. J. S. [Signature]*

RECEIPT DATE: *10-11-70* 38320

RECEIVED FROM: *Arthur Eisenberg*
 FOR CERTIFICATE OF FITNESS EXAM \$25.00

HOW PAID

CASH	<input checked="" type="checkbox"/>
CHECK	<input type="checkbox"/>
MONEY ORDER	<input type="checkbox"/>

BY: *[Signature]*

EXAM PASSEK

250 Livingston Street
 BROOKLYN, N. Y. 11201-6884

P 726426

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 _____ Ex. 1 _____

B.P. 124/90 P. 72 R. 12

Espirometer normal DISPOSITION
QUALIFIED

Chest X-Ray _____ Qual with referral

Lab _____ UNQUALIFIED

Comments: ind. PE " heart lung / also

set TSP

Date of Exam: 2/17/90

ATTACHMENT D
H+GCL's Daily Log

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726428

AMERICAN AIRLINES

7021.42

HANGAR 10 CORE FLOOR V.A.T
PHASE II

P 726429

82 August 14, 1992

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 work area #2	11.4
0700	03099218402	Inside work area #2 south	11.4
0701	03099218403	Inside work area #2 north	11.4
0701	03099218404	Inside work area #2 east	11.4
0702	03099218405	Inside work area #2 west	11.4

0730

There is a carpenter from VRIH construct-
ion 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 DeCenzo (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 i.e. pipe fittings. I
am explaining to Sal and Chris that
all ducts with fiberglass insulation

must be covered with 2 layers of 6 mil poly sheeting.

0835 We have also gone over which pipes will be glove bagged 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 Sr. L. DeLorenzo has left the work-site. The Electricians from Nead 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 Heune	121424980	08143	1189-6111
-------------------	-----------	-------	-----------

James Palladino	062-58-5366	37679	1191-0228
-----------------	-------------	-------	-----------

Carlos Varela	072-20-898	39367	1188-02274
---------------	------------	-------	------------

Eise Yarse	115-70-7555	37008	1188-00286
------------	-------------	-------	------------

Gettie Carter	072-48-1145	08054	1188-32570
---------------	-------------	-------	------------

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 NAC. 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 inside 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 NAC. 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.

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 N.A.C. 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 corner 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 N.A.C. have stopped work for today and are collecting the site up prior to leaving.

1600 The work crew from National Abatement Corp (N.A.C.) has left the work-site for today.

1625 I have left the work-site for today, H+GCL is now off-site, Jellha Birnbaum.

W.E.B.

0650

Tuesday March 10, 1992
H+GCL is on-site William Birnbaum
The work-crew from National Abatement Corp. (N.A.C.) has started to arrive on-site. Chris Keane is the crew supervisor, there is a total of five (5) workers on-site for N.A.C. today. 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.

0700

The electricians from read 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 N.A.C. 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

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.P.
0905	03109218401	Inside area North side	10.6
0905	03109218402	Inside area South side	10.6
0905	03109218403	Inside area East side	10.6

0940 I have spoken with Rochelle Joyner Representative from the Port Authority's AMCO 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.C.#	N.S.#
Chris Keane	12142-4980	08193	AN8801061
James Pledix	01-58-5886	37679	0491-02238
Carlos Varela	071-70-0152	39367	A188-00271
Jose Yarse	115-70-7555	37002	A188-00006
Eddie Carter	072-48-1145	08054, 0488	32518

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 Hengas so I can escort her into the building.

1040 Gary Pelletier has left the site, he will be going over to Building 57 (main tunnel).
1055 I have met Rochelle Joyner out in front of the building. I am escorting her into the Hengas 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 only sign in sheet for the Port Authority AMCO 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 03109218401, 03109218402, and 03109218403.

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	L.P.M.
1300	03109218404	Inside area center	10.6
1300	03109218405	Inside area north side	10.6
1300	03109218406	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 IRMs 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 03109218404, 03109218405 and 03109218406.

1515 The Decontamination Facility is approximately 60% completed. The hot water 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. HIGGL is now off-site. ~~William Bomb~~

J. W. S. B.

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 Heane 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 sheets.

0900 I have checked the status with preparation work on the Decontamination Facility it is approximately 80% completed. Two American 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	P.M.
0915	03119218401	Inside area west side	10.6
0916	03119218402	Inside area west side	10.6
0916	03119218403	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 be hooking up the water from the designated source which has been supplied by American Airlines.

1000 Rochelle Joyner from the Port Authority's AMCOB office has shown up to the work-site with today's sign-in sheets. 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 03119218401, 03119218402, 03119218403. I have informed Chris Heane that

Rochelle Joyner will be returning at 1300 hrs. to perform 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.#	N.Y.S.#
super	Chris Heune	121-41-980	08143	A1187-02061
	James Palladino	062-52-5366	31679	A1191-02238
	Carlos Varela	072-70-9698	39361	A1188-00274
	Jose Yarse	115-70-7555	37008	A1188-00286
	Laldee 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 foreman.

1220 We have solved the problem by increasing the mini-micro traps to the high setting and also by changing filters on the exhaust hole 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. 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.

1300

time	sample #	Location	C.P.M.
1300	03109218404	Inside Area by Decontam	10.0
1300	03109218405	Inside Area North side	10.6
1301	03109218406	Inside Area by side	10.6

1320

Rochelle Joyner from the Port Authority's AMCO office has returned to the site. She is accompanied by Jeffrey ENICO. Jeff will be replacing Rochelle as the representative from AMCO office. Rochelle has told us that she will be returning to the Lubardia airport system. They are here to check on the Decontamination Facility. I have also informed Jeff what the crew 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

- 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 03119218404, 03119218405, and 03119218406.
- 1435 I have called Jeffrey ENILO of the Port Authority to inform him that he should come in the morning tomorrow 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, it is now off-site. William Birnbaum

W.C.B.

Thursday, March 12, 1992

- 0650 H'GCL 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 Jeffrey Enilo from the Port Authority's 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.
- 0820 Jeffrey 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 1200hrs 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.

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
0910	03129218403	Inside Area North side	10.6

0955 Jeffrey Enlo 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. Jeffrey has told me that he will get the updated placard to the site by the end of tomorrow. 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	SSN	NIC#	NYS#
Christiane	121-42-4980	08143	A1187-07061
James Pelledino	062-58-5361	37679	A1191-02238
Carlos Varela	071-70-7658	39367	A1188-00274
Jose Yanez	115-70-7535	32008	A1188-00186
Eddie Corter	022-48-1145	08054	A1188-32570

1130 The workers are now finishing up the light fixtures by putting two (2) covers of 6mil poly over them.

1200 The workers 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 preparation 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 Decm	10.6

- 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 Smoker tube and checked the flow of negative air through the Decontamination Facility, it is OK 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 03129218404, 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. John Burt

0650

Friday March 13, 1992
H'GCL is on-site William Bienbaum
The work crew from National Abatement Corp (NAC) is already on-site Chris Licane 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 preparator work. They will be working on sealing up all critical barriers.

0730

Jeffrey Emilio, from the Port Authority's AMCD 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 Emilio 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 1/2 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

P 726438

0815 sure that all workers are wearing the proper protection while inside the work area conducting preparations. 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. 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 2nd 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	L.P.M.
1015	03139218401	Inside Clean Room Area	7.5
1015	03139218402	Outside entrance to Room	7.5
1017	03139218403	Outside at exhaust Hoods	7.5
1017	03139218404	Outside by GFI Panel	7.5
1018	03139218405	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 John Granda from IAR- company.

1130

John Granda 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 secured samples: 03139218401, 03139218402, 03139218403, 03139218404 and 03139218405.

1310

Jelley, Emilio from the Port Authority has stopped by the work-site. He is here to pick up today's sign sheet and a copy of yesterday's OSHA sampling results.

1330

Jelley, Emilio from the Port Authority AMCO office 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	L.P.M.
1335	03139218406	Inside Clean Room Area	7.5
1336	03139218407	Outside Entrance to Room	7.5
1338	03139218408	Outside of HEPA Exhaust	7.5

P 726439

Time Sample# Location L.P.# 1520
 1340 03139218409 Outside by GLE 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 read them into the on-site Log Book. 1410

name	S.S.#	N.Y.C.#	N.Y.#
supervisor Cristtiane	121-42-4980	08143	A1187-010
James Palladino	062-58-5366	57679	A1191-022
Carlos Varela	071-2-1698	39367	A1188-00279
Jose Yarse	115-70-7555	57008	A1188-00186
Edith Carter	072-48-1115	08284	A1188-32570

1435 The workers are inside the work area containing 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 11E.99 Exhaust units.

1510 I have shut down the five (5) air sampling pumps and secured samples 03139218406, 03139218407, 03139218408, 03139218409, and 031392-18410. I will deliver the samples to Laboratory Testing Services upon completion of today's shift.

The workers from N.A.C. have stopped work for today and are now cleaning up the work-site.

The work crew from National Abatement Corp. (NAC) has left the work-site for today.

I have left the work-site for today. H+GCL is now off-site. Willie Bink

W.E.B.

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
sampling this afternoon.

0730 Chris has informed me that the workers
are hanging gloves on fittings
that are marked for removal. These
gloves will be done first immediately
following the pre-abatement visual.

0745 I have set up five (5) air sampling
pumps at the perimeter 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 Control Cur	7.5
------	-------------	-------------------------	-----

0747	03169218403	next to GFE panel	7.5
------	-------------	-------------------	-----

Time	Sample #	Location	L.P.M.
------	----------	----------	--------

0748	03169218401	Outside Entrance to Room 7.5	7.5
------	-------------	------------------------------	-----

0748	03169218405	Inside Cleanup room of Room 7.5	7.5
------	-------------	---------------------------------	-----

0810 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.

0830 I (Bill Birnbaum) have exited the work
area all workers are properly protected,
and they are currently putting poly
on the final two ducts.

0845 Jeffrey Eniko from the port Authority's
AMCD office has shown up to the
work-site. He is here to drop off the
updated placard and to also pick up
Friday's and today's sign in sheet as
well as copies of air sampling results
from last week.

0920 Jeffrey Eniko from the Port Authority
is leaving the work-site. He informs
me that he will return at 1330 hrs.
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 Conting Corp (ACC) on-site tomorrow 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 12 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.#	N/54
Chris Keane	121-42-4980	08143	1A85-01011
James Palladino	061-58-5366	37679	1A91-02338
Carlos Varela	071-70-9898	32307	1A88-00274
Tasa Yarse	115-70-7553	37208	1A88-00186
Eddie Carter	072-48-1145	08054	1A88-32570

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	C.P.A.
1145	03169218406	At HEPA Exhaust	7.5
1146	03169218407	Adjacent to critical dr.	7.5
1147	03169218408	next to GFI Panel	7.5
1147	03169218409	Outside Entrance to Clean Room	7.5
1148	03169218410	Inside clean room of Clean Room	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.

1340 Jeff Enila along with Arvid from the Port Authority's ATO 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, HIGCL is now off-site. William Bumb

W. E. B.

Monday March 23, 1992

HIGCL is on-site William Bumbbaum. 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 Interstate Cleaning Corp.

I have spoken with my office and they informed me that the results to the air monitoring tests have come back below 0.1 etc. They are also faxing the results to Tony Fontanella, Jeff Eniko, and the Resident Engineers office.

The workers from NAC are inside the area breaking down all of the critical burden 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.

<u>Name</u>	<u>S.S.#</u>	<u>NYC #</u>	<u>NY.S.#</u>
Chris Krone	121-42-4986	28143	A158-02161
Marco Palladino	012-58-5366	57679	AH 91-02238
Edie Carter	072-48-1145	08054	A1188-32570

The workers from National Abatement

- From the Port Authority have left the work-site.
- 1415 I have shut down the five air sampling pumps and secured samples 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 worker crew from National Abatement Corp (NAC) has left the work-site for today.
- 1615 I have left the site for today. At GCL is now off-site. *Will Bomb*

W. E. B.

Tuesday March 17, 1992

1445 Ht GCL is on-site William Birnbaum. A few workers from National Abatement Corp (NAC) are also on-site.

1500 The remainder of the work force from NAC have arrived on-site, Chris Keune is the crew supervisor. There is a total of five (5) workers on-site for NAC today.

1620 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

Time	Sample #	Location	L.P.M.
0756	03179218402	At critical door	7.5
0756	03179218403	Adjacent to E-FI Panel	7.5
0758	03179218404	Entrance to Dec. on	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 paper work. 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 if 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 arrived 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 glaucy removal of the pipe fittings.

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	SS #	N.Y.C. #	N.Y.S. #
Chris Keane	121-42-4850	08143	AH89-04061
James Palkodino	062-88-5366	37679	AH91-02238
Carlos Vorek	071-70-9698	39367	AH88-02284
Jose Yorse	115-70-7558	31008	AH88-00186
Eddie Curler	072-48-1145	08054	AH88-32570

0955 I have shut down the five (5) air samp-Ling pumps, which were collecting samples during the abatement phase of the project. I also secured samples 03179218401, 03179218402, 03179218403, 03179218404, and 03179218405.

1010 I (B. H. Birmann) 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.

1015 I have exited the work area and showne as I passed through the Decontamination facility. While in the work area I

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 Fontanella and Jeffrey 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 fillings which had been abated.

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

time	sample #	Location	L.P.M.
1226	03179218407	next to critical door	7.5
1226	03179218408	next to G.F. Panel	7.5
1227	03179218409	At entrance to room	7.5
1227	03179218410	Inside clean room	7.5

30 The workers from National Abatement
 Corp. (NAC) have finished their Lunch
 Break. They are sitting back up to enter
 the work area and continue with Abatement.
 The floor tiles will now be taken up.
 15 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.

30 Jeff is Leaving the site, he wants
 us to keep him tomorrow morning to
 let him know when the work area
 will be ready for a pre-encapsulation
 VISUAL inspection.

100 I (Bill Binnham) 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

P 726446

Monday, March 18, 1992
11:30 A.M. is oil-site William Bingham

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.

The workers are unable to enter the waste area due to the lack of tyvek suits. I have been informed that there are tyvek suits on the way to the site.

15:15 The work crew is waiting outside the decontamination facility for the arrival of the suits.

15:30 The crew foreman Jim has informed me that there is approximately 15% of the floor left to do renovation. The workers will then fix the floor.

15:55 The work crew from National Abatement Corp. is now leaving the work-site. They pass through the decontamination facility and are showering. The workers are exiting the area up the work area and site.

15:30 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 03179218406, 03179218407, 03179218408, 03179218409, and 03179218410. All samples will be hand delivered to L.T.S.

15:15 The workers from NAC have stopped work for today and are now cleaning up the work area and site.

15:40 The workers are exiting the area and are showering. They pass through the decontamination facility.

15:55 The work crew from National Abatement Corp. is now leaving the work-site.

16:15 I am leaving the work-site, site is now off-site. ~~Bill Dumb~~

A.C.D.

15: 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 work.

P 726447

time	sample#	association	L.P.A.
0805	03189218401	At HICPA 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 waiting 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 or alarm for, 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 Enrico from the Port Authority for a pre-encapsulation visual inspection.		
1000	I tried to contact Jeff, but		

Enrico from the Port Authority at his office - I left a message for him to call me concerning the visual inspections.

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 sampled the flow of makeup air flowing through the decontamination facility, it appears to be satisfactory. The manometer is registering at .045" H₂O.

Jeff Enrico from the Port Authority's ARMC 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.

15 The waste out of bags has been all bags containing Flom the one being double bagged in the shower of the waste deck and then being placed in cardboard boxes which have been properly labeled. I have called Jeff E. to get his office. I informed him that it calls as if we will not be ready for a visit inspection today. Jeff has informed me that the Fort-Roth's Placid Expires today and that another one has to be issued before any more can commence again. It seems that work will not be able to go on tomorrow (Thursday). Jeff also told me that he will need on updated EPA notification form. I will call Gary Felton from him if needed for an updated notification. I have called Gary Felton and informed him about the notification he will make correct and send amended notification via fax to Jeff at the end of today or first thing tomorrow morning. I called back Jeff and relayed the information given to me by Gary Felton. The waste list has been completed for July a total of 84 tonnes have been sent.

15 The workers from NAC have exited the north area and are showering as they pass through the Decontamination facility. They are going on a lunch break. I have collected all of the workers certificates under previous man and man record from into the on-site log-book. Name SS# NYC# NY# Chris Kane 121-42-4880 08143 A188-0741 James Palladio 02-58-5366 31829 A191-0238 Dennis Loreto 07-30-7628 39367 A188-00274 Jose Yorse 115-70-7555 37028 A888-02186 Eddie Carter 072-98-1145 0254 A188-32500 The workers from NAC have returned from their lunch break and are sitting up to enter the area to begin final cleanup and waste bagout. I have setup another set of levels (S) during the final stages of removal and fine cleaning. Location LRA Time Sample 03/89218406 AT HEM Exhaust 7.5 02. 03/89218407 Address of Critchfield 7.5 1296 03/89218408 Address to GFI mail 7.5 1297 03/89218409 Outside Entrance to Room 7.5 1298 03/89218410 Inside Room Room 7.5 1298

1240

1230

1215

1145

supervisor

1510

containment, each box contains approximately 3 bags (double). I have shut down the five (5) air sampling pumps and secured samples 03189218406, 03189218407, 03189218408, 03189218409, and 031892-18410. These samples will be hand delivered to the Labs at C.O.S. at the end of today's shift.

1525

The workers have cleaned up the area and are now starting to exit the work area and shower as they pass through the decontamination Facility. Chris Hean 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 Hean 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, HIGG is now off-site. William Birnbaum

W.E.B.

- Friday March 20, 1992
- 50 HIGG is on-site William Birnbaum
The work crew from National Abatement Corp. (NAC) is already on-site, Chris Hean 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 takeout the last of the waste bags and perform the pre-encapsulation visuals.
- 50 The workers have suited up and are entering the work area in order to begin work for today.
- 55 The workers inside the area are washing out the last 20 waste bags (approximate). These bags contain used poly, tape, truck 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.
- 50 Chris Hean 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.
- 50 I have set up five (5) air sampling pumps around the outside of the work

Area in order to collect samples during the final stages of abatement.

(fine cleaning)

Time Sample # Location LPM

0800 03209218401 A1127M E. 1st St 75

0811 03209218402 A1127M E. 1st St 75

0812 03209218403 near to GFT Ball 75

0802 03209218404 At Entrance to Room 75

0804 03209218405 Inspection Room 75

I have been beeped by Jeff Enilo

of the Port Authority's AMCO office.

I am returning his call to his office.

He is not in, I inform the people

at AMCO to inform Terry that the

work area will be ready for a

pre-encapsulation visual inspection

I have collected the certificates

from all the workers that are on-

site for NAL today. I will review

the certificates and then forward

them into the on-site Log-Book.

Name S.S.# NYCT NYS

Chris Kimm 121-12-1130 08143 M189-0401

Jane Faldino 062-58-5363 31619 A1171-0224

I have spoken with Jeff Enilo

of the Port Authority's AMCO office

0815

Supervisor

0845

0935

Jeff will be coming to the site

at approximately 11:30 AM in order to

perform pre-encapsulation inspection

IS I (Bill Johnson) have entered the

work area to conduct a second visual

inspection. The work area will

also smoke test all critical barriers.

As well as the flow of materials

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 wearing

up to enter the work area and I

will enter with him and the supervisor

from NAL.

The workers from NAL have gone on

a lunch break.

I and myself have

entered the work area in order to

conduct the pre-encapsulation

visual inspection.

We will be exiting the work area

Jeff has passed the visual inspection

given in OIT to NAL to encapsulate

P 726451

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
Baird

2350

0030

0050

0115

Saturday March 21, 1992

H+GCL is on-site William Baird
I am here tonight in order to collect
post abatement clearance samples.

I have gathered up all of the air
sampling pumps and brought all neces-
sary equipment to the clean room in
the Decontamination Facility.

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 on
side the work area.

I have set up five (5) air sampling
pumps inside the work area in order to
collect clearance air sampling

Time	Sample #	Location	L.P.M.
0115	03229218401	Inside area by door	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.

0235 I (Bill Baird) have re-entered the
work area in order to shut down the
air sampling pumps.

P 726452

- corp. have gone 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.
- 1545 There is a problem with releasing the waste hauler from the site. Wilbur McNeil from the Port Authority's Armed Office needs to have a copy of the truck's registration.
- 1730 The registration has been sent 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. H-60 is now off-site. ~~John~~ ~~Conrad~~

W.E.B.

ATTACHMENT E
O.S.H.A. Personnel Air Sampling Results

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726454

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): A1AR-3/13/-001

SUBMITTED BY : CLIENT

RE: NAC

TRANSACTION # : 2002/089

HANGER 10

AMERICAN AIRLINES

OSHA PERSONAL AIR SAMPLES

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

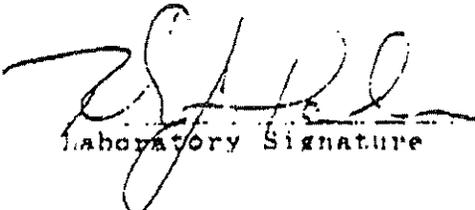
NIOSH OVI # 11101-004

ELAP# 10977

NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

SAMPLE NO.	LOCATION	AIR VOLUME	FIBERS/ FIELD	CONCENTRATION
A1AR 3/13/92-001	JIM PALLADINO SS# 061-58-5366	863 (L)	5/100	**LOG 7/cc


Laboratory Signature

***NOTE: ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

P 726455

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

TRANSACTION # : 2002/069

HANGER 10

AMERICAN AIRLINES

OSHA PERSONAL AIR SAMPLES

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

<u>SAMPLE NO.</u>	<u>LOCATION</u>	<u>AIR VOLUME</u>	<u>FIBERS/ FIELD</u>	<u>CONCENTRATION</u>
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
Follow
Original to
Palladino

P 726457

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

TRANSACTION # : 2002/069

HANGER 10

AMERICAN AIRLINES

OSHA PERSONAL AIR SAMPLES

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

<u>SAMPLE NO.</u>	<u>LOCATION</u>	<u>AIR VOLUME</u>	<u>FIBERS/ FIELD</u>	<u>CONCENTRATION</u>
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.

P 726459

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): ALAR-3/20/-001

SUBMITTED BY : CLIENT

RE: NAC

TRANSACTION # : 2002/069

HANGER 10

AMERICAN AIRLINES

OSHA PERSONAL AIR SAMPLES

PAGE NUMBER : 1 OF 1

AIR SAMPLE TEST METHOD USED: NIOSH 7400 Phase Contrast Microscopy (PCM)

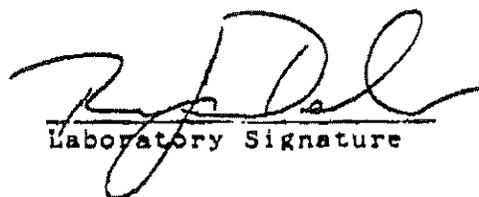
NIOSH PAT # 11101-004

ELAP# 10977

NVLAP # 1275

MICROSCOPE MAKE: NIKON ALPHAPHOT-2 YS2 MODEL #: 144554

<u>SAMPLE NO.</u>	<u>LOCATION</u>	<u>AIR VOLUME</u>	<u>FIBERS/ FIELD</u>	<u>CONCENTRATION</u>
ALAR-3/20/-001	JIM PALLADINO SS# 061-58-5386	891 (L)	3/100	.002 f/cc


Laboratory Signature

***NOTE ALL DATA AND MATERIAL SUPPLIED BY CLIENT.
GLOMAR CORP. DID NOT PROCURE THIS SAMPLE.

P 726460

ATTACHMENT F
Waste Manifests

American Airlines
JFK International Airport
Jamaica, New York 11430

P 726461

file 17263

FORM I: ASBESTOS WASTE MANIFEST (See Instructions on Back)

GENERATOR
TRANSPORTER
DISPOSAL SITE

1. Work Site Name and Mailing Address American Airlines J.F.K.I. Co. Hangar 10 Jamaica Queens		Owner's Name, Address, Phone No. Port Authority of NY and NJ (718) 204-6464	
2. Contractor's Name, Address, Phone No. (Operator) National Acoustics 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 TCWMA 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 tapes, truck seats.		6. & 7. Waste Containers and Quantities Type: DM 26 drums labeled DP BA 10 Drums - 100 lbs. each 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 CHRIS KEANE - SUPERVISOR		Signature <i>Chris Keane</i>	Date 3/23/92
10. Transporter 1 (Acknowledgement of Receipt of Materials) Company Name & Address Asbestos Carting Corp. 1199 Roubidoux AVE. Bronx, NY 10474		Signature: <i>James B. Smith</i>	Telephone No. 212-617-0711
		Printed Name: James B. Smith	Date 3/23/92
		Title: Driver	
11. Transporter 2 (Acknowledgement of Receipt of Materials) Company Name & Address <i>Scott King</i>		Signature: <i>Scott King</i>	Telephone No. 3-24
		Printed Name: Scott King	Date
		Title: DRIVER	
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: <i>Maryann Phallic</i>	Telephone No. 2-25-92
		Printed Name: Maryann Phallic	Date
		Title: Gate Clerk	

Project No. _____
Project Manager: _____
Form _____ of _____

File 17263



1199 RANDALL AVE
 BRONX NEW YORK 10474
 212/817-0771 FAX 212/891-3877

MANIFEST NO. 29263

DATE 03-17-92

NON - HAZARDOUS WASTE MANIFEST

D.C.C. 26-189
 DCA #482929

FRIABLE AT POINT OF ORIGIN, STABLE BAGGED AND MADE NON-FRIABLE FOR HANDLING AND TRANSPORTATION.

PORT AUTHORITY OF NY & NJ 1 WORLD TRADE CENTER NEW YORK, NY 718-423-2727
 BUILDING OWNER'S NAME & MAILING ADDRESS PHONE NO.

JFK AIRPORT HANGAR #18 (AMERICAN AIRLINES)
 SITE OF GENERATION (if different from mailing address) DEPT. NO.

ASBESTOS CARTING CORP. 1199 RANDALL AVE. BRONX, NY 10474 2A-169 482929
 ASBESTOS HULLER COMPANY NAME DEC NO. DCA NO.

ASBESTOS CARTING CORP. 2-6887-82885/1 1199 RANDALL AVE. BRONX, NY 10474 212-617-2771
 TRANSFER STATION DISPOSAL FACILITY PERMIT NO. (3: digits) ADDRESS PHONE NO.

VALLEY LANDFILL PLEASANT VALLEY ROAD RD 2 BOX 2828 IRVIN, 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

66-68 WOODSIDE AVENUE WOODSIDE NY 11377 718-335-5805
 ABATEMENT COMPANY ADDRESS PHONE NO.

PROGRAM MANAGER'S NAME	TITLE	PROGRAM MANAGER'S AFFILIATION	NO./DAY/YR.
CHARIS KEARNE	SUPER	Ch. Kearne	3-17-92

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.

ASBESTOS CARTING CORP.	TITLE	SIGNATURE	TRUCK LICENSE	NO./DAY/YR.
Scott Kling	DRIVER	Scott Kling	-EX. 1	3-24

ASBESTOS HULLER'S ACKNOWLEDGMENT OF RECEIPT OF MATERIAL AS DESCRIBED ABOVE

DISCREPANCY INDICATION SPACE	TITLE	SIGNATURE	NO./DAY/YR.
# of Bags	Photo Clerk	Maryann M. Iorio	3-25-92

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

THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
 Asbestos and Asbestos Containing Waste Shipping Document

215.135
 ACC 1226.3

GENERATOR	Name <u>Port Authority of NY & NJ</u>	Telephone No.:
	Address <u>JFK TA</u> <u>Jamaica N.Y.</u> Zip Code <u>11430</u>	<u>(718) 431-7000</u>
TRANSPORTER	Name <u>Asbestos Control Corp.</u>	Telephone No.:
	Address <u>1199 Randall Ave</u> <u>NY N.Y.</u> Zip Code <u>10474</u>	Vehicle Permit No. <u>20-187</u> Vehicle License Plate No. <u>EX 1</u> State <u>NY</u>
SECONDARY TRANSPORTER (If Applicable)	Name _____	Telephone No.:
	Address _____ Zip Code _____	Vehicle Permit No. _____ Vehicle License Plate No. _____ State _____
SOLID WASTE DISPOSAL FACILITY (BWD)	Name <u>Valley Landfill</u>	Facility Telephone No.:
	Address <u>Plant Valley Rd</u> <u>Box 724</u> <u>Lawie Pa</u> Zip Code <u>15612</u>	<u>(412) 744-7046</u> BWD Facility State I.D. No. _____

ASBESTOS MATERIAL DATA	TYPE OF ASBESTOS MATERIAL	PACKAGE TYPE	NO OF PACKAGES	APPROXIMATE WEIGHT PER PACKAGE
	1.	Pipe Fittings (Asbestos)	Cardboard Boxes	86
2.	Floor Tiles	6 mil Poly Bags		
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) Scott Keim OWNER [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)

Maryann Miller Site Clerk [Signature] 21-317
 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 invoice to the Port Authority of NY & NJ Environmental Management Division Asbestos Mgmt. Program, 25 Journal Square, Petrosino-4th Floor, Jersey City, N.J. 07306. Also Submitter.

1 - Generator 2 - Transporter to Landfill 3 - yellow - EMD Office 4 - pink - Field Supervisor 5 - gold - Facility Project Manager

DEC #: 2A-139

FORM 1: ASBESTOS WASTE MANIFEST (See Instructions on Back)

GENERATOR

1. Work Site Name and Mailing Address <i>American Airlines J.F.K.I.A. Hangar 10 Jamaica, N.Y.</i>		Owner's Name, Address, Phone No. <i>Port Authority of N.Y. and N.J. (718) 244-6464</i>	
2. Contractor's Name, Address, Phone No. (Operator) <i>National Abatement Corp. (NAC) 100 Varick Street New York, N.Y.</i>		<i>(212) 219-0880</i>	
3. Waste Disposal Site (WDS) Name, Location, Address, and Phone No. <i>Valley Landfill Pleasant Valley Rd. Box 28 Town of ...</i>			
4. Name and Address of Responsible NESHAPS Agency <i>U.S. EPA Asbestos Air Compliance Division, 26 Federal Plaza, Suite 1033, New York, N.Y.</i>			
5. Description of Materials (See Instructions) <i>6mil Poly, Tape and Tyvek suits</i>		6. & 7. Waste Containers and Quantities	
		Type	Number Quantity Units
		DM	
		DP	
		BA	<i>30 Bags 6mil double 7.5 cubic yards</i>
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 <i>CHRIS KEANE - SUPERVISOR</i>	Signature <i>[Signature]</i>	Date <i>3/23/92</i>
---	---------------------------------	------------------------

TRANSPORTER

10. Transporter 1 (Acknowledgement of Receipt of Materials)		Signature: <i>Luis A. Vargas</i>		Telephone No. <i>212-617-0771</i>
Company Name & Address <i>Asbestos Cleanup Corp. 1199 Randall AVE. Bronx, N.Y. 10474</i>		Printed Name: <i>Luis A. Vargas</i>		Date <i>3/23/92</i>
		Title: <i>Driver</i>		
11. Transporter 2 (Acknowledgement of Receipt of Materials)		Signature: <i>[Signature]</i>		Telephone No.
Company Name & Address <i>Scott King</i>		Printed Name: _____		Date <i>3-8</i>
		Title: _____		

DISPOSAL SITE

12. Waste Disposal Site Owner or Operator's Certification (Receipt of above Waste Except as Noted in 12)		Signature: <i>Maryann Milare</i>		Telephone No.
Company Name & Address		Printed Name: <i>Maryann Milare</i>		Date <i>2-27-92</i>
		Title: <i>Gate Clerk</i>		

Project No. *1001-42*
 Project Manager: _____
 Form *1* of *1*



1199 RANDALL AVE
 BRONX, NEW YORK 10474
 212/817-0771 FAX 212/891-3977

MANIFEST NO. 19457

DATE 3-23-92

NON - HAZARDOUS WASTE MANIFEST

D.E.C. 29-189
 DCR 8462929

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 29-189 462929
 ASBESTOS HAULER COMPANY NAME DEC NO. DCR NO.

ASBESTOS CARTING CORP. 2-6087-80026/1 1199 RANDALL AVE. BRONX, NY 10474 212-617-0771
 TRANSFER STATION DISPOSAL/FACILITY (PERMIT NO. - last digits) ADDRESS PHONE NO.

VALLEY LANDFILL PLEASANT VALLEY ROAD RD 2 BOX 2629 IRWIN, PA 15642 (412) 744-7446
 DESIGNATED DISPOSAL FACILITY NAME, SITE ADDRESS & TELEPHONE NO.

ROLL-OFF	NO. OF CONTAINERS	UNITS (WT./VOL.)	QUANTITY
	1	30bags	10 cyp

NATIONAL ASBESTOS REMOVAL INC.
 ABATEMENT COMPANY NAME

68-86 WOODSIDE AVENUE WOODSIDE, NY 11377 718-335-0304
 ABATEMENT COMPANY ADDRESS PHONE NO.

PROGRAM MANAGER'S NAME	TITLE	SIGNATURE	NO./DAY/YR.
CHRIS KEANE	SUPERVISOR	<i>[Signature]</i>	3/23/92

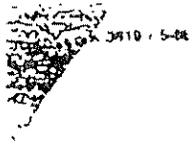
BUILDING OWNER'S CERTIFICATION: I CERTIFY THAT THE ABOVE DESCRIBED WASTE CONTAINING ASBESTOS IS FULLY AND ACCURATELY DESCRIBED AND HAS BEEN THOROUGHLY WET DOWN, PACKAGED AND LABELED IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 16 - 117.1 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK AS AMENDED BY LOCAL LAW 21 OF 1987.

ASBESTOS CARTING CORP.	TITLE	SIGNATURE	NO./DAY/YR.
Scott King	DRIVER	<i>[Signature]</i>	3-26

ASBESTOS HAULER IS ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL AS DESCRIBED ABOVE

DISCREPANCY INDICATION SPACE	TITLE	SIGNATURE	NO./DAY/YR.
<i>[Signature]</i>	Gate Clerk	<i>[Signature]</i>	3-27-92

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



THE PORT AUTHORITY OF NY & NJ
ENVIRONMENTAL MANAGEMENT DIVISION
ASBESTOS MANAGEMENT PROGRAM
 Asbestos and Asbestos Containing Waste Shipping Document

F-1
215,135

GENERATOR	Name <u>Port Authority of New York - N.J.</u>	Telephone No. <u>(212) 435-7000</u>
	Address <u>JFK IA</u> <u>Jamaica NY</u> Zip Code <u>11430</u>	
TRANSPORTER	Name <u>ASBESTOS CARRYING CO. P.</u>	Telephone No. <u>()</u>
	Address <u>1199 Randall Ave</u> <u>Brooklyn NY</u> Zip Code <u>11214</u>	Vehicle Permit No. <u>24-185</u> Vehicle License Plate No. <u>EX 1</u> State <u>NY</u>
SECONDARY TRANSPORTER (If Applicable)	Name _____	Telephone No. _____
	Address _____ Zip Code _____	Vehicle Permit No. _____ Vehicle License Plate No. _____ State _____

SOLID WASTE DISPOSAL FACILITY (SWD)	Name <u>Valley Landfill</u>	Facility Telephone No. <u>(412) 744-7446</u>
	Address <u>Pleasant Valley Rd</u> <u>Edwin Pa.</u> Zip Code <u>15642</u>	SWD Facility State LD. No. _____

ASBESTOS MATERIAL DATA	TYPE OF ASBESTOS MATERIAL	PACKAGE TYPE	NO. OF PACKAGES	APPROXIMATE WEIGHT PER PACKAGE
	1.	<u>Poly</u>	<u>6-mil</u>	<u>30 bags</u>
2.				
3.				

Approx. Total Shipment Weight: _____

(Print or Type) Chris Keane SUPERVISOR 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 Luis A. Vargas 3/23/92
 Transporter's Representative's Name Title Signature Date

(Print or Type) Scott King DRIVER Scott King 3/25/92
 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)

Margaret Miller Gate Clerk Margaret 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 form signed copy and indicate to the Port Authority of N.Y. & N.J. Environmental Management Division Asbestos Mgmt. Program, 25 Journal Square, Jamaica, 4th Floor, Jamaica, N.Y. 07308 Attn: Supervisor.

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

TAA#
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.

(1)

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)

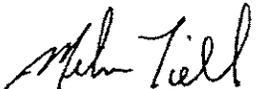
SAMPLE ORIGINATION:

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.

(2)

Laboratory Testing Services

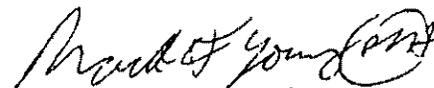
LAB. NO.: 92-05572(N3)

5.0 CERTIFICATION AND SIGNATURES:

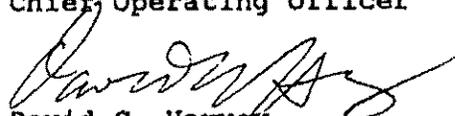
We certify this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

LABORATORY TESTING SERVICES, INC.



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



David C. Harvey
President

aj

(3)

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.

Laboratory Testing Services

LAB. NO.: 92-05572 (N3)

APPENDIX A
CHAIN OF CUSTODY RECORDS

L-12-12

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD SHEET 1 OF 1

BLDG. NAME & ADDRESS: <i>American Airlines Hangar 10</i>					
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					

REQUESTED COMPLETION DATE: *7-1-92*

JOB NO.: *7021.42* BATCH NO: *12999*

CLIENT NAME: *American Airlines*

SAMPLER'S NAME: *G. Peltier*

SIGNATURE: *G. Peltier*

DATE: *6-30-92* TIME COMPLETED: *4:45*

DELIVERED TO LAB BY: *UPS*

LAB NAME: *Laboratory Testing Services*

ADDRESS:

RECEIVED BY: *D. Tiell*

DATE: *7/1/92* TIME: *10:45 AM* INITIALS: *MT*

ANALYZED BY:

LAB QC APPROVAL:

PROJECT MANAGER'S APPROVAL: *G. Peltier*

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: *NEED RESULTS BY 7-1-92 11:00pm From HUGCL 'RUSH' Gary Peltier 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	<table border="1"> <tr> <th>NO. SAMPLES</th> <th>RATE</th> <th>SUBTOTAL</th> </tr> <tr> <td><i>3</i></td> <td><i>30</i></td> <td><i>90</i></td> </tr> </table> <p>OUTSIDE LAB AUTHORIZATION</p>	NO. SAMPLES	RATE	SUBTOTAL	<i>3</i>	<i>30</i>	<i>90</i>
NO. SAMPLES	RATE	SUBTOTAL							
<i>3</i>	<i>30</i>	<i>90</i>							

P 726473

Laboratory Testing Services

LAB. NO.: 92-05572(N3)

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.

Laboratory Testing Services

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 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.

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 THF 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.

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720

NVLS

P 726477

Laboratory Testing Services

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

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)	(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, ADJACENT 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.

(7)

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)	(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.

(8)

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)	(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.

(15)

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)	(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.

(16)

Laboratory Testing Services

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

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)	(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.

(2)

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)	(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.

(5)

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)	(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.

(6)

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)	(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.

(11)

NY 100

P 719120

Laboratory Testing Services

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

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)	(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

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.

(9)

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)	(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.

(4)

Laboratory Testing Services

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

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)	(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

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.

(5)

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)	(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	-----

< = 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.

(3)

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)	(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

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.

(4)

Laboratory Testing Services

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

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)	(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.

(7)

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)	(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

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.

(3)

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

DATE SAMPLED: 05/04/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

SAMPLING SITE: JFK Airport, Building 56, Phase IV, Work Area 7D

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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

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.

(6)

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-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)	(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.

(8)

Laboratory Testing Services

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

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)	(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.

(10)

Laboratory Testing Services

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

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)	(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.

(9)

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)	(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.

(11)

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)	(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

<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.

(13)

Laboratory Testing Services

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

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)	(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	---

< = 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.

(14)

Laboratory Testing Services

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

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)	(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.

(12)

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

v1

NVLAP ACCRED. # 1332

NYS ELAP APPROVAL # 10837

AIHA ACCRED. # 333

(15)

P 719136

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.

N

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

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

SAMPLING SITE: JFK Airport, Building 56, Phase 1, A/C Pits

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(9)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAD

P 719137

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

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)

DATE SAMPLED: 04/15/93
DATE RECEIVED IN LAB: 04/23/93
DATE ANALYZED: 04/23/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(1)

Laboratory Testing Services

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

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

DATE SAMPLED: 05/13/93
 DATE RECEIVED IN LAB: 05/14/93
 DATE ANALYZED: 05/15/93

SAMPLING SITE: JFK Airport, Building 56, Phase II, Work Area Z

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
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.

(1)

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. *ek*
Vice President
Chief Operating Officer

David C. Harvey
David C. Harvey *ek*
President

ek

(10)

P 719140

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.

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)	(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.

(12)

Laboratory Testing Services

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

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)	(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.

(13)

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)	(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.

(14)

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)	(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.

(20)

Laboratory Testing Services

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

PROJECT NO.: 6766(U)
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: 05/04/93
DATE RECEIVED IN LAB: 05/06/93
DATE ANALYZED: 05/06/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(21)

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)	(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.

(22)

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-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: 05/07/93
 DATE RECEIVED IN LAB: 05/09/93
 DATE ANALYZED: 05/09/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
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	<0.002
11	93A33235	05379338511 FIELD BLANK #1	< LOD	---
12	93A33236	05379338512 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.

(23)

Laboratory Testing Services

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

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)	(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

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.

(17)

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)	(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.

(19)

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)	(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.

(18)

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)	(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	<12.7	<0.003
08	93A22125	04019338508 ADJACENT TO PERSONAL D/F	15.3	0.003
09	93A22126	04019338509 ADJACENT TO WASTE D/F	<12.7	<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	16.6	<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.

(1)

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)	(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.

(3)

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.

(2)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(4)

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)	(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.

(5)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(6)

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)	(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.

(7)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(8)

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)	(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.

(9)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(10)

Laboratory Testing Services

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

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)	(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.

(11)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			($\mu\text{g}/\text{mm}^2$)	($\mu\text{g}/\text{cc}^3$)
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.

(12)

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-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: 04/09/93
DATE RECEIVED IN LAB: 04/12/93
DATE ANALYZED: 04/12/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	<12.7	<0.003
06	93A25671	04099338506 OUTSIDE OF BUILDING	17.2	0.005
07	93A25672	04099338507 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.003
08	93A25673	04099338508 FIELD BLANK #1	< LOD	-----
09	93A25674	04099338509 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.

(13)

P 719208

Laboratory Testing Services

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

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)	(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.

(14)

Laboratory Testing Services

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

PROJECT NO.: 6766(I)
 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 #I, Work Area #5B

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)	(f/cc ³)
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

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.

(15)

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)	(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.

(2)

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
NEW YORK • BOSTON • RICHMOND

NYLAS

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)	(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

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.

(3)

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
NEW YORK • BOSTON • RICHMOND

NVLAG

P 719212

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(4)

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
NEW YORK • BOSTON • RICHMOND

NVLAP

P 719213

Laboratory Testing Services

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

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)	(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.

(5)

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

DATE SAMPLED: 03/08/93
DATE RECEIVED IN LAB: 03/11/93
DATE ANALYZED: 03/12/93

SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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

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.

(13)

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)	(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

<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.

(10)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
 NEW YORK • BOSTON • RICHMOND

NVLAQ

P 719216

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)	(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

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.

(1)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAD

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)	(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

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.

(2)

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
DATE SAMPLED: 03/03/93
DATE RECEIVED IN LAB: 03/05/93
DATE ANALYZED: 03/05/93
SAMPLING SITE: JFK Airport, Building 56, Phase 1, Work Area 5A

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(3)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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.

(4)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAB

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)	(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.

(5)

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)	(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.

(6)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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.

(7)

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)	(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.

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.

(8)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

P 719224

Laboratory Testing Services

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

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)	(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.

(1)

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)	(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

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.

(1)

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)	(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

<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.

(2)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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	-----

< = 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.

(3)

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)	(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	-----

< = 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.

(4)

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)	(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

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.

(5)

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)	(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

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.

(6)

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)	(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

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.

(7)

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
DATE SAMPLED: 02/25/93
DATE RECEIVED IN LAB: 02/27/93
DATE ANALYZED: 02/27/93
SAMPLING SITE: JFK Airport, Building 56, Phase I, Work Area 5A

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(8)

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)	(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

<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.

(9)

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)	(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

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.

(14)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

RECEIVED

P 719235

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)	(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

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.

(15)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

OFFICE

P 719236

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

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

SAMPLING SITE: JFK Airport, Building 56, Phase 2, A.C. Pits

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(18)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NOTES

P 719239

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)	(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.

(7)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(8)

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
NEW YORK • BOSTON • RICHMOND

Handwritten signature

P 719243

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-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)	(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

< = 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.

(9)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS: ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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

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.

(10)

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
NEW YORK • BOSTON • RICHMOND

N71A3

P 719245

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)	(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

< = 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.

(11)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	-----

< = 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.

(12)

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)	(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

< = 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.

(13)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc ³)
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.

(14)

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

NYLAB

P 719249

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: 03/26/93
DATE ANALYZED: 03/26/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(f/cc)
01	93A20683	03259338513 OUTSIDE BUILDING	<12.7	<0.0
02	93A20684	03259338514 ADJACENT TO MICROTRAP EXHAUST, BY NORTHWEST STAIRWAY	<12.7	<0.0
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.

(41)

Laboratory Testing Services

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

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)	(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.

(42)

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)	(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.

(20)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAD

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

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

SAMPLING SITE: JFK Airport, Building 56, Phase 2, A.C. Pits

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(21)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NYLAB

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)	(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.

(22)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0138 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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.

(23)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAD

P 719255

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)	(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.

(24)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

P 719256

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)	(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.

(25)

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)	(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

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.

(12)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAQ

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)	(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, ADJACENT 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

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.

(11)

75 URBAN AVE., PO BOX 1021, WESTBURY, N.Y. 11590-0139 • (516) 334-7770 • (800) 433-0008 • FAX NO. 516-334-7720
NEW YORK • BOSTON • RICHMOND

NVLAB

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

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

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)	(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.

(15)

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)	(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.

(16)

Laboratory Testing Services

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

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)	(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.

(17)

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

DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/17/93
DATE ANALYZED: 03/17/93

SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area #3, Pit #17

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(18)

Laboratory Testing Services

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

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
DATE SAMPLED: 03/16/93
DATE RECEIVED IN LAB: 03/17/93
DATE ANALYZED: 03/17/93
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area #3, A/C, Pit #21

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(19)

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

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

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)	(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.

(20)

Laboratory Testing Services

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

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)	(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 DETECTION

Note: Airborne concentration has been derived by Laboratory Testing Services, Inc. does not certify the accuracy of concentration data supplied is done so only for

Laboratory Testing concentration. The air

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)	(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.

(19)

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)	(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.

(20)

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)	(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.

(24)

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)	(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

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.

(25)

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
DATE SAMPLED: 04/05/93
DATE RECEIVED IN LAB: 04/13/93
DATE ANALYZED: 04/13/93
SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4D, East

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	<12.7	<0.003
11	93A26040	04059338540 FIELD BLANK #1	< LOD	-----
12	93A26041	04059338541 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.

(21)

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)	(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

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.

(22)

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

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: 03/22/93
DATE RECEIVED IN LAB: 03/23/93
DATE ANALYZED: 03/23/93

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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	<0.003
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	<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.

(21)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(22)

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
NEW YORK • BOSTON • RICHMOND

NPLAS

P 719274

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)	(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.

(23)

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)	(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.

(24)

Laboratory Testing Services

RESULTS: (CONT'D)

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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.

(25)

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)	(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	<0.003
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	<12.7	<0.004
11	93A20697	03259318411 FIELD BLANK #1	< LOD	-----
12	93A20698	03259318412 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.

(26)

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)	(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.

(27)

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)	(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.

(28)

Laboratory Testing Services

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

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)	(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.

(29)

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)	(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
 <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.

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)	(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

<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.

(16)

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

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

SAMPLING SITE: JFK Airport, Building 56, Phase #II, Work Area #4E, Glovebag

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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

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.

(17)

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
DATE SAMPLED: 03/31/93
DATE RECEIVED IN LAB: 04/02/93
DATE ANALYZED: 04/02/93
SAMPLING SITE: JFK Airport, Building 56, Phase #2, Work Area 4E, Glovebags

RESULTS:

SAMPLE NO.	LTS. ID#	SAMPLE DESCRIPTION	CONCENTRATION	
			(f/mm ²)	(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 OUTSIDE 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.

(31)

Laboratory Testing Services

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

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)	(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.

(32)

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)	(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.

(33)

Laboratory Testing Services

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

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)	(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.

(34)

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)	(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.

(23)

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)	(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 concentration. The air concentration data supplied is done so only for the convenience of the sampling agency.

(10)

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
NEW YORK • BOSTON • RICHMOND

3/21/93

P 719316

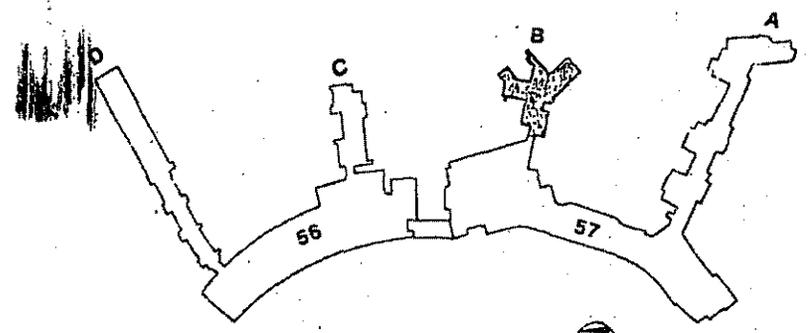
000000

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.

REMOVED
CTOR

(TYP.)



KEY PLAN

PROJECT NO.		7021.46	
DRN. BY		E C	
1	REVISED AS PER AA CHANGE IN SCOPE	A	E
2	REVISED AS PER BB CHANGE IN SCOPE	S	C
		W	W

PART PLAN - BUILDING 57
GATES 4, 5 AND 6

DATE 4-27-93

ASB-

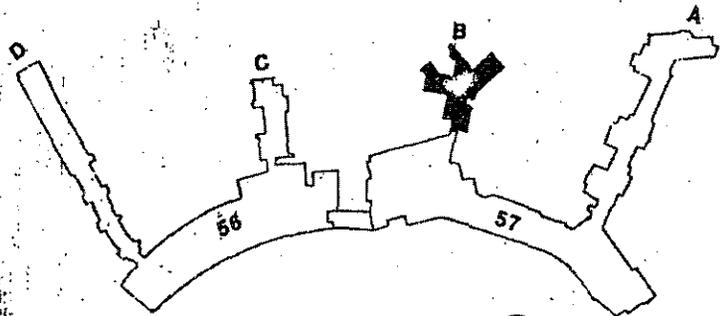
SHEET 3 0

NOTICE: If this drawing is used for any other project, the contractor shall be responsible for any changes to the drawing. The contractor shall be responsible for any changes to the drawing.

P 722271

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.



NOTICE: If the image below is less clear than the original, it is due to the poor quality of the document being scanned.

NE: P 36

PART PLAN - BUILDING 57
GATES 4, 5 AND 6

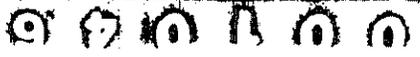
PROJECT NO. 702277
PROPERTY

1	ISSUED FOR PERMITS	DATE	BY
2	ISSUED FOR PERMITS	DATE	BY
3	ISSUED FOR PERMITS	DATE	BY
4	ISSUED FOR PERMITS	DATE	BY
5	ISSUED FOR PERMITS	DATE	BY
6	ISSUED FOR PERMITS	DATE	BY
7	ISSUED FOR PERMITS	DATE	BY
8	ISSUED FOR PERMITS	DATE	BY
9	ISSUED FOR PERMITS	DATE	BY
10	ISSUED FOR PERMITS	DATE	BY
11	ISSUED FOR PERMITS	DATE	BY
12	ISSUED FOR PERMITS	DATE	BY
13	ISSUED FOR PERMITS	DATE	BY
14	ISSUED FOR PERMITS	DATE	BY
15	ISSUED FOR PERMITS	DATE	BY
16	ISSUED FOR PERMITS	DATE	BY
17	ISSUED FOR PERMITS	DATE	BY
18	ISSUED FOR PERMITS	DATE	BY
19	ISSUED FOR PERMITS	DATE	BY
20	ISSUED FOR PERMITS	DATE	BY

DATE 4-27-83

ASB-3

SHEET 3 OF 4



PORT AUTHORITY OF NEW YORK AND NEW JERSEY
 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 Memo Date	Recovery 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 Memo Date	Recovery 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 Memo Date	Recovery Job Type	Reason For Abatement
--	------	---------------	-----------------------	-----------------------------------	------------	----------------------	----------	-------------------	--------------------	----------------------	-------------------------	----------------------

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 Memo Date	Recovery 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 WORK CANOPIES - TENANT WAIVER LETTER REC'D 1/8/90