PLAINTIFF'S EXHIBIT
GSPK36
ALL-STATE LEGAL®

Schneider Laboratories, Inc.
1508 W. MAIN STREET • RICHMOND, VA 23220 • (804) 353-6778

ASBESTOS IDENTIFICATION REPORT
[BY EPA INTERIM METHOD]
[40 CFR 763, SUBPT F, APP. A]

R. Hatten
CLIENT: Patten, Wornom & Watkins
ADDRESS: Ste 105, 739 Thimble Shls Bvd
CITY/STATE/ZIP Newport News, Va 23606

LABORATORY NO: 195-198
ACCOUNT NO.
DATE RECEIVED: 2/21/88
CUST. ID: 87-163-NN/R. Fiedler

THE SAMPLE(S) SUBMITTED FOR ASBESTOS BULK ANALYSIS HAVE BEEN COMPLETED. THEY WERE ANALYZED BY POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING.

		SAMPLE #	SAMPLE #	SAMPLE #	SAMPLE #
I.	LABORATORY NO.	195	196	197	198
	FIELD I.D. NO.	888	2150	333	815
II. RESULTS: ASBESTOS PRESENT		YES	YES	YES	YES
III. TYPE ASBESTOS (IF PRESENT)					
	A. CHRYSOTILE	YES	YES	YES	YES
	B. AMOSITE	NO	NO	NO	NO
	C. CROCIDOLITE	NO	NO	NO	NO
	D. ANTHOPHYLLITE				
	E. FIBROUS TREMOLITE				
	F. FIBROUS ACTINOLITE				
APPROXIMATE PER CENT ASBESTOS		85	80	90	40
IV. ASSOCIATED FIBROUS MATERIALS					
	A. CELLULOSE FIBER	15	10	10	60
	B. FIBROUS GLASS				
	C. SYNTHETIC FIBER				
V. NONFIBROUS MATERIALS					
	A. GYPSUM				
	B. CALCITE				
	C. SILICA				

PLAINTIFF'S EXHIBIT
3
2/21/88 RH

VI. REMARKS
[DETECTION LIMIT]
[< 1% ASBESTOS]

ANALYST: R. ABOUZAKI
REVIEWED & APPROVED: R. VANCE, Ph.D.; LABORATORY DIRECTOR

DATE OF ANALYSIS: 2/21/88

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ASBESTOS IDENTIFICATION REPORT
[BY EPA INTERIM METHOD]
[40 CFR 763, SUBPT F, APP. A]

R. Hatten
CLIENT: Patten, Wornom & Watkins
ADDRESS: Ste 105, 739 Thimble Shls Bvd
CITY/STATE/ZIP Newport News, Va 23606

LABORATORY NO: 199-201
ACCOUNT NO.
DATE RECEIVED: 2/21/88
CUST. ID: 87-163-NN/R. Fiedler

THE SAMPLE(S) SUBMITTED FOR ASBESTOS BULK ANALYSIS HAVE BEEN COMPLETED. THEY WERE ANALYZED BY POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING.

		SAMPLE #	SAMPLE #	SAMPLE #	SAMPLE #
I.	LABORATORY NO.	199	200	201	
	FIELD I.D. NO.	SS1C	SS6AM	814	
II. RESULTS: ASBESTOS PRESENT		YES	YES	YES	
III. TYPE ASBESTOS (IF PRESENT)					
	A. CHRYSOTILE	YES	YES	YES	
	B. AMOSITE	NO	NO	NO	
	C. CROCIDOLITE	NO	NO	NO	
	D. ANTHOPHYLLITE				
	E. FIBROUS TREMOLITE				
	F. FIBROUS ACTINOLITE				
APPROXIMATE PER CENT ASBESTOS		60	80	25	
IV. ASSOCIATED FIBROUS MATERIALS					
	A. CELLULOSE FIBER	5			
	B. FIBROUS GLASS				
	C. SYNTHETIC FIBER	20	15	75	
V. NONFIBROUS MATERIALS					
	A. GYPSUM				
	B. CALCITE				
	C. SILICA				

VI. REMARKS
[DETECTION LIMIT]
[< 1% ASBESTOS]

ANALYST: R. ABOUZAKI
DATE OF ANALYSIS: 2/21/88
REVIEWED & APPROVED: R. VANCE, Ph.D.; LABORATORY DIRECTOR

Schneider Laboratories, Inc.
1508 W. MAIN STREET • RICHMOND, VA 23220 • (804) 353-6778

February 27, 1988

Robert R. Hatten, Esq.
Patten, Wornom & Watkins
Suite 105, 739 Thimble Shoals Blvd.
Newport News, VA 23606



Re: Mr. Fiedler

Dear Mr. Hatten:

Per your request, we conducted the asbestos fiber release experiment today with Mr. Fiedler. A description of how the experiment was performed and the results observed follows.

Mr. Fiedler and Mr. Ambrose, who recorded the videotape of the experiment, arrived at the laboratory between 11 a.m. and noon on Saturday, February 27, 1988.

The experiment was conducted on sample number 333, the sample containing the largest per centage of asbestos, 90%. The sealed sample, a metal flange, a file, and a ball peen hammer were placed inside a glovebox. The use and operation of a glovebox were explained to Mr. Fiedler. Mr. Fiedler began manipulation of the asbestos containing material inside the glovebox at about 12:45 p.m. and stopped at about 1:15 p.m. Mr. Fiedler began by filing an edge of the sample. He then demonstrated the use of a hammer and file in the preparation of a gasket. A helium-neon laser was used to identify and videotape reflections from airborne particulate matter. Light from the laser was directed through the space immediately below the location of filing. Light from the laser reflected off airborne particulate matter.

Air samples were taken before and during the manipulation of asbestos containing material. A clean air sample was taken from the glovebox before the experiment was begun. The clean air sample confirmed that the glovebox was uncontaminated. A second sample was taken while the manipulation of the asbestos was taking place. The airborne concentration of asbestos within the glovebox while the manipulation of asbestos took place was 2.62 fibers per cubic centimeter. Substantial asbestos containing dust accumulated on the walls and bottom of the glovebox during the course of the experiment.

I have possession of the remainder of sample 333 and of the air sampling cassettes. I shall return it to you forthwith. If you have any questions, please feel free to call me.

Sincerely

Leonard Vance

R. Leonard Vance, Ph.D.
Laboratory Director

enc.

Schneider Laboratories, Inc.
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LABORATORY ANALYSIS REPORT — AIHA/EPA ACCREDITED
ASBESTOS FIBER COUNT BY NIOSH 7400 METHOD

ACCOUNT: Robert R. Hatten, Esq.
Patten Wornom & Watkins
CLIENT: Suite 105, 739 Thimble Shoals Bd
Address: Newport News, VA 23606

DATE COLLECTED: 2/27/88
DATE RECEIVED : 2/27/88
DATE REPORTED : 2/27/88
CUS. PURCH. ORD.

FOR PERSONAL MONITORING SAMPLES COLLECTED FOR OSHA COMPLIANCE PURPOSES:

FIELD SAMPLE NO.	SCHN LAB SAMPLE NO.	TOTAL FIELDS COUNTED	FLOW RATE l/min	FIBER COUNT PER FIELD	TOTAL TIME SAMPLE COLL'D (min)	SAMPLE VOLUME (l)	ACTUAL EXPOSURE (f/cc)	8 HOUR TWA (f/cc) *
blank	275	100	1.94	<0.01	30	60	<0.01	
333	276	40	3.0	4.81	30	90	2.62	

MICROSCOPIC FIELD AREA (MM2): 0.00785

*ASSUMES ZERO EXPOSURE FOR REMAINDER OF 8 HOUR TIME PERIOD NOT SAMPLED

ANALYZED BY R. ABOUZAKI R.A.

REVIEWED BY R. VANCE, Ph.D., LABORATORY DIRECTOR R. L. Vance 2/27/88

Schneider Research Laboratories

Division of Schneider & Associates, Inc.

worksheet - formal report will follow

LABORATORY ANALYSIS REPORT

Clean Air Glove Box I #1

SAMPLER NO.	2/27/88 DATE
1.94 ℓ/min FLOW	30.0 min TIME
60 ℓ VOLUME	<0.01 BLANK CNT
7.85×10^{-3} mm² FIELD AREA	<0.01 AVERAGE CNT
FIBERS/CC	

NOTES

0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

10

Sample inside Glove box #1

foam with 333 SAMPLER NO.	2/27/88 DATE
3.0 ℓ/min FLOW	30.0 min TIME
90 ℓ VOLUME	<0.01 BLANK CNT
7.85×10^{-3} mm² FIELD AREA	4.81 AVERAGE CNT
2.62 FIBERS/CC	

NOTES

Sampling time 12:47 pm to 1:17 pm

4.5	4.0
4.5	6.0
3.5	3.5
7.5	5.0
5.0	4.5
5.5	4.0
4.0	7.5
5.0	9.0
2.5	5.0
3.5	6.5
9.5	5.0
6.5	3.0
7.0	6.5
1.5	4.0
6.0	6.5
1.5	4.5
6.0	4.5
2.5	1.5
3.5	5.5
4.0	2.0

10