

INTEROFFICE CORRESPONDENCE

March 13, 1972

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THIS COPY FOR

ERIE 16TH STREET ASBESTOS SURVEY NO. 1
ERIE 16TH STREET DUST SURVEY NO. 1
ERIE 16TH STREET NOISE SURVEY NO. 1

The subject surveys are attached. Potentially hazardous fiber levels were found in the unloading of asbestos boxcars and in feeding the millboard beaters.

Overall dust levels appeared to be satisfactory at the time of this survey.

Noise levels slightly in excess of 90dB(A) were found at the felt mill and at the millboard machine.

If you wish to discuss this data further, please let me know.

jd
Attach.

A. M. Sobkowitz
A. M. Sobkowitz

MICH08897

ERIE 16TH STREET
ASBESTOS SURVEY NO. 1

Nine samples of the working atmosphere were gathered on March 1, 1972, using membrane filters. They were evaluated for asbestos fibers by the USPHS-developed phase contrast technique.

Test results are summarized here:

<u>Sample No.</u>	<u>Area</u>	<u>Fibers/cc</u>
A-1	Papermill - wet end	0.5
A-2	Papermill - hydropulper	1.1
A-3	Papermill - trimmer	0.4
B-1	Millboard trimmer	0.5
C-1	Millboard beater room	5.2 3
D-1	Millboard storage area	0.2
E-1	Towmotor operator, unloading Asbestos	1.0
E-2	Warehouse worker, unloading Asbestos	1.4
E-3	Warehouse worker, unloading Asbestos	4.7

High fiber counts are reported for the millboard beater room and for the warehouse worker unloading Asbestos.

MICH08898

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ASBESTOS SURVEY DATA SHEET

Sample No. A-1Division Industrial ProductPlant Erie 16Area Paper mill - Wet EndSample Type PersonalSampling Date 3/1/72Time 10:12 - 11:12Sampler AMSSampling Time 60Counting Date 3/7/71Counter PV

FIBER COUNT

>5M

>10M

1	0	21	1	21
2	0	22	2	22
3	0	23	3	23
4	0	24	4	24
5	0	25	5	25
6	0	26	6	26
7	1	27	7	27
8	0	28	8	28
9	0	29	9	29
10	0	30	10	30
11	0	31	11	31
12	1	32	12	32
13	0	33	13	33
14	0	34	14	34
15	1	35	15	35
16	1	36	16	36
17	0	37	17	37
18	0	38	18	38
19	0	39	19	39
20	0	40	20	40

Total Count 4Total Fields 20Fibers/cc = Total Count x Factor = 0.5Factor 0.5/19Remarks Small foreign particles (diamotaceous)

MICH08912

GAF CORPORATION

ASBESTOS SURVEY DATA SHEET

Sample No. A-2Division Latex ProductsPlant ERIE 16th STArea PulperSample Type PersonalSampling Date 3/1/72Time 10:15-11:15Sampler AMSSampling Time 60Counting Date 3/7/72Counter PV

FIBER COUNT

>5M										>10M									
1	3									1									
2	1									2									
3	1									3									
4	0									4									
5	0									5									
6	0									6									
7	0									7									
8	0									8									
9	0									9									
10	0									10									
11	0									11									
12	0									12									
13	1									13									
14	0									14									
15	0									15									
16	1									16									
17	1									17									
18	0									18									
19	0									19									
20	1									20									

Total Count 9Total Fields 20Fibers/cc = Total Count x Factor 1/1Factor 0.119Remarks Many small foreign particles

MICH08913

ASBESTOS SURVEY DATA SHEET

Sample No. A-3Division Ind'l - Prod.Plant EPIC 11th St.Area Summer - Cell MillSample Type PersonalSampling Date 3/1/72Time 10:25 - 11:25 amSampler AMSSampling Time 60 minCounting Date 3/7Counter PV

FIBER COUNT

>5M

>10M

1	0	21	1	21
2	0	22	2	22
3	0	23	3	23
4	0	24	4	24
5	0	25	5	25
6	0	26	6	26
7	0	27	7	27
8	0	28	8	28
9	0	29	9	29
10	0	30	10	30
11	0	31	11	31
12	0	32	12	32
13	0	33	13	33
14	1	34	14	34
15	0	35	15	35
16	1	36	16	36
17	0	37	17	37
18	0	38	18	38
19	1	39	19	39
20	0	40	20	40

Total Count 3Total Fields 20Fibers/cc = Total Count x Factor = 0.4Factor 0.119Remarks Small foreign particles - few fibers

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ASBESTOS SURVEY DATA SHEET

Sample No. B-1Division Ind. Prod.Plant FR 16-11-57Area Trimmer Mill RoadSample Type PersonalSampling Date 3/1/72Time 11:40-11:55Sampler AMSSampling Time 15 min.Counting Date 3/7Counter PV

FIBER COUNT

>5M

>10M

1	0	21	1	21
2	0	22	2	22
3	0	23	3	23
4	0	24	4	24
5	0	25	5	25
6	0	26	6	26
7	0	27	7	27
8	0	28	8	28
9	0	29	9	29
10	0	30	10	30
11	0	31	11	31
12	0	32	12	32
13	0	33	13	33
14	1	34	14	34
15	0	35	15	35
16	0	36	16	36
17	0	37	17	37
18	0	38	18	38
19	0	39	19	39
20	0	40	20	40

Total Count 1Total Fields 20Fibers/cc = Total Count x Factor 0.5Factor 0.476Remarks Few fibers. Very few particles

MICH08915

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ASBESTOS SURVEY DATA SHEET

Sample No. C-1Division INTL ProdPlant ERIE 16th STArea Mill Card Beater RoomSample Type PersonalSampling Date 3/1/72Time 1:15 - 1:30Sampler AMSSampling Time 15 minCounting Date 3/7/72Counter PV

FIBER COUNT

>5M										>10M									
1	0	21	1	0	21	1	0	21	1	0	21	1	0	21	1	0	21	1	0
2	1	22	2	1	22	2	1	22	2	1	22	2	1	22	2	1	22	2	1
3	0	23	3	0	23	3	0	23	3	0	23	3	0	23	3	0	23	3	0
4	0	24	4	0	24	4	0	24	4	0	24	4	0	24	4	0	24	4	0
5	1	25	5	1	25	5	1	25	5	1	25	5	1	25	5	1	25	5	1
6	0	26	6	0	26	6	0	26	6	0	26	6	0	26	6	0	26	6	0
7	2	27	7	2	27	7	2	27	7	2	27	7	2	27	7	2	27	7	2
8	0	28	8	0	28	8	0	28	8	0	28	8	0	28	8	0	28	8	0
9	0	29	9	0	29	9	0	29	9	0	29	9	0	29	9	0	29	9	0
10	1	30	10	1	30	10	1	30	10	1	30	10	1	30	10	1	30	10	1
11	1	31	11	1	31	11	1	31	11	1	31	11	1	31	11	1	31	11	1
12	1	32	12	1	32	12	1	32	12	1	32	12	1	32	12	1	32	12	1
13	4	33	13	4	33	13	4	33	13	4	33	13	4	33	13	4	33	13	4
14	0	34	14	0	34	14	0	34	14	0	34	14	0	34	14	0	34	14	0
15	0	35	15	0	35	15	0	35	15	0	35	15	0	35	15	0	35	15	0
16	2	36	16	2	36	16	2	36	16	2	36	16	2	36	16	2	36	16	2
17	1	37	17	1	37	17	1	37	17	1	37	17	1	37	17	1	37	17	1
18	0	38	18	0	38	18	0	38	18	0	38	18	0	38	18	0	38	18	0
19	0	39	19	0	39	19	0	39	19	0	39	19	0	39	19	0	39	19	0
20	1	40	20	1	40	20	1	40	20	1	40	20	1	40	20	1	40	20	1

Total Count 15Total Fields 20Fibers/cc = Total Count x Factor = 5.2Factor 1.476Remarks Many foreign particles, few fibersSampled during charging

MICH08916

Form: EED-35

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ASBESTOS SURVEY DATA SHEET

Sample No. D-1Division Industrial ProductsPlant EPF 16th St.Area Billboard StorageSample Type PersonalSampling Date 3/1/72Time 1:50 - 2:50 PMSampler AMSSampling Time 60 minCounting Date 3/7/72Counter PV

FIBER COUNT

>5M

>10M

1	0	21	1	21
2	0	22	2	22
3	0	23	3	23
4	0	24	4	24
5	0	25	5	25
6	1	26	6	26
7	0	27	7	27
8	0	28	8	28
9	1	29	9	29
10	0	30	10	30
11	0	31	11	31
12	0	32	12	32
13	0	33	13	33
14	0	34	14	34
15	0	35	15	35
16	0	36	16	36
17	0	37	17	37
18	0	38	18	38
19	0	39	19	39
20	0	40	20	40

Total Count 2Total Fields 20Fibers/cc = Total Count x Factor = 0.2Factor 0.1/19Remarks Few particles few fibers

MICH08917

ASBESTOS SURVEY DATA SHEET

Sample No. E-1Division INT'L - 1200 Jir LPlant Eden Hill STArea LOW MOTORSample Type PersonalSampling Date 3/1/72Time 2:40-2:50 PMSampler AMSSampling Time 35 minCounting Date 3/7/72Counter PV

FIBER COUNT

>5M		>10M	
1	0	21	21
2	0	22	22
3	1	23	23
4	0	24	24
5	0	25	25
6	0	26	26
7	0	27	27
8	0	28	28
9	0	29	29
10	3	30	30
11	0	31	31
12	0	32	32
13	1	33	33
14	0	34	34
15	0	35	35
16	0	36	36
17	0	37	37
18	0	38	38
19	0	39	39
20	0	40	40

Total Count 5Total Fields 20

Fibers/cc = Total Count x Factor

Factor 0.254Remarks Many particles, few fibers

MICH08918

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ASBESTOS SURVEY DATA SHEET

Sample No. E-3Division Ind'l ProductsPlant ERIE 11th STArea Boxcar - Bag HandlerSample Type PersonnelSampling Date 3/1/72Time 2:45 - 3:35Sampler AMSSampling Time 50Counting Date 3/7/72Counter PV

FIBER COUNT

>5M

>10M

1	2	21	1	21
2	2	22	2	22
3	2	23	3	23
4	1	24	4	24
5	1	25	5	25
6	1	26	6	26
7	3	27	7	27
8	2	28	8	28
9	1	29	9	29
10	3	30	10	30
11	5	31	11	31
12	1	32	12	32
13	2	33	13	33
14	1	34	14	34
15	0	35	15	35
16	0	36	16	36
17	1	37	17	37
18	0	38	18	38
19	2	39	19	39
20	3	40	20	40

Total Count 33Total Fields 20Fibers/cc = Total Count x Factor 4.7Factor 0.143Remarks Many particles Many fibers

MICH08899

GAF CORPORATION

ASBESTOS SURVEY DATA SHEET

Sample No. E-2 Boxcar & TowmotorDivision Indus/ProdPlant E-1 16th St.Area Boxcar & TowmotorSample Type PersonalSampling Date 3/3/72Time 2:45-3:35Sampler AMSSampling Time 50 MINCounting Date 3/6/72Counter PV

FIBER COUNT

>5M			>10M		
<u>Mounted in field</u>					
1	1	21	0	1	21
2	0	22	0	2	22
3	0	23	0	3	23
4	1	24	0	4	24
5	1	25	0	5	25
6	1	26	0	6	26
7	1	27	0	7	27
8	0	28	1	8	28
9	1	29	0	9	29
10	0	30	0	10	30
11	0	31	0	11	31
12	0	32	1	12	32
13	0	33	0	13	33
14	1	34	0	14	34
15	0	35	0	15	35
16	0	36	0	16	36
17	0	37	1	17	37
18	0	38	0	18	38
19	2	39	0	19	39
20	1	40	0	20	40

Total Count 103Total Fields 2020Fibers/cc = Total Count x Factor = 1.4Factor 0.143Remarks Small foreign particlesMan changed job from bag handling to fork lift driver after 30 min.

ERIE 16TH STREET

DUST SURVEY NO. 1

On March 1, 1972, three areas were evaluated for overall dust level. The results are summarized here:

<u>Sample No.</u>	<u>Area</u>	<u>Results</u>
A-4	Hydropulper	1.7 mg/M ³
B-2	Millboard Trimmer	1.0 MPPCF
D-2	Millboard Storage	0.7 MPPCF

None of these levels are expected to be outside the OSHA limits.

MICH08901

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DUST SURVEY DATA SHEET

Survey No. 1Division East Prod.Plant ERIE-11th StArea Hydro-pulper RoomNature of Dust Asbestos, diatomaceous earth, glass fibers

Other Sources of Dust _____

Temperature _____

Sample A-4

Identification _____

Sample Type _____

(Personal/Area) AREA

Sampled Fraction _____

(Respirable/Total) TotalPump #2

Identification _____

Date of Pump Calibration _____

Sampling Rate 10 fphSampling Time 11:02 - 1:20Lapsed Time/Volume Sampled 1:38 min / 0.64 m³

Laboratory Evaluation of Sample

Sample Weight/Tare Weight 0.0492 / 0.0491Examiner AMS Examiner ZACMicroscopic Examination 1.7 mg / 1/3

Examiner _____

Chemical Analysis _____

Examiner _____

Remarks Sample Mounted on Column about 6 feet from pulper

Date _____

Signature of Examiner _____

MICH08902

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DUST SURVEY DATA SHEET

Survey No. 1Division Industrial Products Plant ERIE - 16th StreetArea MILLBOARDNature of Dust Other Sources of Dust Temperature Sample B-2 D-2Identification MILLBOARD TRIMMER MILLBOARD STORAGESample Type AREA AREA

(Personal/Area)

Sampled Fraction Total Total

(Respirable/Total)

Pump # 2 # 4Identification Date of Pump Calibration Sampling Rate 2.0 lpm 2.0 lpmSampling Time 11:45-11:55 AM 1:55-2:25Lapsed Time/Volume Sampled 10 min/20 l 30 min/60 l

Laboratory Evaluation of Sample

Sample Weight/Tare Weight Examiner Examiner Microscopic Examination 1.2 Mppcf 0.7 MppcfExaminer PV Chemical Analysis Examiner Remarks Date Signature of Examiner

MICH08903

ERIE 16TH STREET

NOISE SURVEY NO. 1

On March 1, 1972, noise surveys were conducted at the Erie 16th Street felt mill and millboard machine.

Felt Mill

Noise levels were measured at up to 94 dB(A) in areas commonly entered by operating personnel. Highest levels were measured in the drying section and near the trimmer-coiler operator. The principal sources appeared to be two substantial steam leaks and drive belt slippage.

Millboard Machine

Why?

Noise levels were measured at up to 91 dB(A) in areas commonly entered by operating personnel. This level was recorded at the roll operator's normal work station and is apparently due to the carrier-felt beaters. A curtain is over the beaters to prevent overspray of cleaning water. It provides some noise reduction. The placement of additional curtain material in that area will probably provide the required noise reduction.



MICH08904