

CONGOLEUM, INCORPORATED
CEDARHURST PLANT
FINKSBURG, MD

ASBESTOS IN AIR

SUBMITTED BY: Michael D. Ramsey
Loss Prevention Consultant
Industrial Hygiene

Roberta L. Robinson, R.N.
Senior Health Consultant
LIBERTY MUTUAL INSURANCE CO.
May 31, 1977

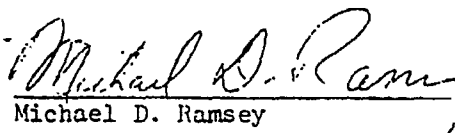
CONGOLEUM, INCORPORATED
CEDARHURST PLANT
FINKSBURG, MD

ASBESTOS : : AIR

On April 27, 1977 a survey was performed of your operations which use asbestos. Eight personal air samples were collected in the box car unloading and hydropulper areas. These samples were analyzed optically for asbestos fiber concentrations.

CONCLUSIONS

1. All samples indicated concentrations in the neighborhood of 0.2 fibers per milliliter over the eight hour work day. This is substantially below the currently recommended maximum concentration of 2.0 fibers per milliliter.
2. The primary sources of airborne asbestos fiber appears to be leakage from broken bags and dust from box cars. Some contribution may also be made by asbestos- containing slurry spilling out of the hydropulper and drying out on the floor.
3. Although the area in the vicinity of the #1 mixer was not sampled, it is anticipated that this operation generates much higher asbestos concentrations than the hydropulping operation. This mixer should be used as little as possible and discontinued if not necessary.
4. Asbestos suppliers and plant personnel have been experimenting with various types of packing and shipping methods to minimize bag breakage and asbestos dust generation.
5. A review of medical controls indicates that all currently required medical controls are in effect. For your reference, a copy of our recommended medical controls is attached.
6. Because of the present uncertainty of the scientific community concerning airborne asbestos concentrations needed to present a significant risk of cancer, the recommendations contained in this report should be completed to assure that airborne concentrations are kept to the lowest practical levels.


Michael D. Ramsey
Loss Prevention Consultant
Industrial Hygiene

CONGOLEUM, INCORPORATED
CEDARHURST PLANT
FINKSEJRG, MD

ASBESTOS IN AIR

Medical Controls for Asbestos Exposure

At this time any exposure to asbestos fibers requires medical surveillance. The physician responsible will have to include the following components in his medical control program for workers concerned.

Preplacement Physical Examination

A medical and occupational history questionnaire with emphasis on the respiratory system and cigarette smoking.

A pulmonary function determination for Forced Vital Capacity (FVC) and Forced Expiratory Volume for 1 second (FEV₁). This testing may be done by an outside source or a spirometer can be purchased. A spirometer is the instrument used to measure pulmonary function tests and the following companies can be contacted for information.

Ohio Medical Products
95 Cedar Lane
Englewood, NJ 07631

Warren E. Collins, Inc.
220 Wood Road
Braintree, MA 02184

Jones Medical Instrument Co.
200 Windsor Drive
Oak Brook, IL 60521

Vitolograph Limited
8347 Quivira Road
Lenexa, Kansas 66215

A 14 x 17 chest X-ray.

A physical examination.

The overall direction of this evaluation should be to identify the presence of existing pulmonary disability in the individual.

Annual & Termination Physical Examinations

The scope of these examinations should follow that of the preplacement physical examination.

Contraindications to having routine spirometry performed are:

1. History of coronary heart disease, angina, myocardial infarct, chest pain.
2. History of chronic middle ear disease, previous membrane rupture.
3. Restrictive lung disease requiring supplemental oxygen.
4. History of pneumothorax.

Robert T. Robinson, M.D.

CONGOLEUM, INCORPORATED
CEDARHURST PLANT
FINKSBURG, MD

ASBESTOS IN AIR

RECOMMENDATIONS

1. Discontinue the use of #1 mixer for the processing of asbestos. If it must be used, it should only be used as a back-up system when the hydropulper is fully committed. In this case, the following should be accomplished:
- a. Inspect the exhaust system duct work and hood. Repair any damage and close all unnecessary openings.
 - b. Remove accumulated dust in the hood and duct work with a vacuum system. A vacuum system is necessary to help limit the asbestos exposure to persons doing the cleaning.
 - c. Assure that the ventilation system is properly balanced (see DISCUSSION Section of this report), providing a capture velocity of about 200 to 300 feet per minute. The transport velocity in the duct work should be a minimum of 3500 feet per minute.
 - d. A program of routine evaluation and maintenance should be set up to assure the continued efficient operation of this hood. The capture velocity should be checked at least once per month if the system is used frequently.
2. Provide a counter-balanced cover for the hydropulper opening. This will prevent the slurry from splashing out of the hydropulper and contributing to the asbestos accumulation on the floor.
3. Instruct employees to discontinue dropping the cardboard separators on the floor of the box cars. These should be carried carefully into the building for proper disposal. Dropping them on the floor disturbs asbestos dust which has accumulated on the floor of the railroad cars.
4. The box car floors should be cleaned with the vacuum cleaner as soon as possible before the remaining bags are removed. This will help keep dust generation inside the cars to a minimum as bags are unloaded.

DISCUSSION

Because of the handling methods used, the nature of the asbestos used, and the high humidity in the hydropulping area; the airborne asbestos exposure in this area is considered controlled according to presently accepted standards. Since the bags are pulpable, they can be added directly to the hydropulper without being opened. The asbestos being used is a long fiber asbestos, with a significant moisture content. Hence, it tends to agglomerate in storage rather than produce a dust. This helped to reduce dust generation from broken bags. The high humidity in the hydropulping room helps keep spilled slurry from drying out and contributing to airborne dust concentration.

No - short by
industry standards

No

CONGOLEUM, INCORPORATED
CEDARFURST PLANT
FINKEBURG, MD

ASBESTOS IN AIR

DISCUSSION - Con't

On the other hand, spilled asbestos does dry out in box cars and visible dust was generated by the movement in and out of the box cars. It is therefore important that movement in this area be kept to a minimum and that the walking surfaces be vacuumed as often as possible while unloading.

The hood and duct work on mixer #1 was operated briefly and the velocity at the vertical slots was measured with an Alnor Velometer. This slot velocity was found to be between 400 and 800 feet per minute. The capture velocity (i.e. the air velocity at the point of dust generation) was difficult to measure primarily because of the high velocity of the supply air behind the operator station. This high velocity caused turbulence at the expected dust generation points and, therefore, made capture velocity measurements inconclusive.

In order to reduce this turbulence, the system should be properly balanced. In this particular system, I believe proper balancing can be accomplished by making sure that the volume of air provided by the supply system is less than or equal to that exhausted by the exhaust system. This will help minimize turbulence and improve the capture efficiency of the hood. If the hood itself can produce capture velocities of 200 to 300 feet per minute at all dust generation points, it may be possible to do away with the supply air entirely.

DATA

Pumps: MSA Model G Personal Sample Pumps

Filter Medium: Millipore AA filters

Sampling Rate: 2.0 liters per minute

Analyzed For: Asbestos fiber concentration

Method of Analysis: Fibers were counted optically with a phase-contrast microscope at a magnification of 400 diameters. A fiber is defined as a particle which is 5.0 microns or longer in length with an aspect ratio of greater than 3.0.

Recommended Maximum Concentration: 2.0 fibers per milliliter for an 8 hour time-weighted average exposure.

<u>SAMPLE</u>	<u>TIME</u>	<u>COMMENTS</u>	<u>CONCENTRATION</u> (fibers/ml.)
1	7:50 133 min.	Personal sample. Hydropulper operator.	0.3

CONGOLEUM, INCORPORATED
CEDARHURST PLANT
FINKSBURG, MD

ASBESTOS IN AIR

DATA - Con't

<u>SAMPLE</u>	<u>TIME</u>	<u>COMMENTS</u>	<u>CONCENTRATION</u> (fibers/ml.)
2	7:57 125 min.	Forklift operator in hydropulper room. Moves bags from staging area to hydropulper. Personal sample.	0.2
3	8:09 171 min.	Personal sample on warehouse man. Helped to unload railroad cars. Did <u>not</u> drive forklift. Unloaded 1½ railroad cars during this sample.	0.3
4	8:11 151 min.	Personal sample on warehouse man. Drove forklift. Unloaded 1½ railroad cars during this sample.	0.4
5	12:02 125 min.	Personal sample. Same as #4. Unloaded 2 railroad cars during this sample.	less than 0.01
6	12:16 105 min.	Personal sample. Same as #1.	less than 0.01
7	12:03 128 min.	Personal sample. Same as #3. Unloaded 2 railroad cars during this sample.	less than 0.01
9	12:23 96 min.	Personal sample. Same as #2.	less than 0.01

1966

COMMUNICATIONS SECTION, L.P.C.

JUNE 11, 1966

MEMPHIS, TENN. 38001

AIRBORNE UNIT

*File Sub Folder
in Service Folder
as letter notation is made
as stated of report
RWS 11/1/66*

SUBMITTED BY:

W. R. LAROCQUE
LABORATORY OF FORENSIC MEDICINE
1015 UNIVERSITY AVENUE, N.W.

May 13, 1966

- 5cc: E. Orange L.P. - J. Knott
- 1cc: Home Office L.P. - Ind. Hyg. File
- 1cc: Hopkinton L.P. - W. R. LaRocque
- 2cc: Bala Cynwyd L.P. - Ind. Hyg. File

CONGOLBUM-HAYES, INC.
TILE PLANT
KEARNY, NEW JERSEY

AIRBORNE DUST

On May 12, 1966, air samples were taken for talc, limestone and opalon dust in air at the pre-blend mixing platform. The results of this survey and our observations are summarized as follows:

CONCLUSIONS

1. Airborne dust levels during pre-blending charging ranged from 122 to 198 million particles per cubic foot of air; this was above the suggested threshold limit value of 28 million particles for mixture of mineral dusts.
2. Dust levels after pre-blending charging ranged from 36 to 72 million particles per cubic foot of air.

S. T. Wagner
S. T. Wagner
Senior Industrial Hygienist
Loss Prevention Department

May 13, 1966

STW:cc

RECOMMENDATIONS

1. The pre-blenders should be enclosed as much as possible and a minimum capacity of 150 cubic feet per square foot of remaining open area should be provided.
2. A minimum duct velocity of 3500 feet per minute should be maintained.
3. Respiratory protection approved by the U. S. Bureau of Mines for pneumoconiosis dusts should be provided and worn until adequate ventilation is provided. *Comp. 5/*

*The pre-blenders provided with
Local exhaust ventilation control with
a minimum capacity of 150 cubic
feet per minute per square
foot provided.*

DISCUSSION

The results of air sampling showed that dust levels were far above the suggested threshold limit value for mixtures of mineral dusts during charging of the pre-blenders. There was no local exhaust ventilation and dust was generated during bag opening as indicated by the data sheet. Moreover, dusting continued until the liquids were added.

Local exhaust ventilation should be provided for the blenders and sufficient capacity is required to maintain an inward draft of 150 feet per minute through the open area. It is our understanding that the blender charging will be changed to bulk loading. Even under these circumstances local exhaust ventilation should be provided.

A general room fan was provided in the roof above the pre-blenders. It was observed that this pulled the dust past the breathing zone of the workers.

DATA

ALUMINE DUST

Method of Collecting: Millipore Filter Pump with 2 pinners and collected in dish 1.5 liter at a rate of 5 liters per minute.

Method of Analysis: The samples were counted microscopically by the light field technique using a Spencer Dri Line Microcounter Cal. 11.

Threshold Limit Value: Liberty Mutual suggests 20 mg. per cubic foot of air on the basis of mixtures of min. 1 dusts. (MPPCF)

<u>Sample No.</u>	<u>Location</u>	<u>Count</u>
1.	Breathing zone charging No. 3 pre-blender.	198
2.	Breathing zone charging No. 3 pre-blender.	122
3.	Breathing zone after charging pre-blender.	26.0
4.	Breathing zone after charging pre-blender.	72.7

1964

CONGOLEUM NAIRN, INCORPORATED
CEDARHURST, MARYLAND

ASBESTOS IN AIR

SUBMITTED BY:

S. T. WAGNER
SENIOR INDUSTRIAL HYGIENIST
LOSS PREVENTION DEPARTMENT
December 22, 1964

DISTRIBUTION:

- 3CC: WASHINGTON D. C. LOSS PREVENTION DEPARTMENT - John Hunter
- 3CC: EAST ORANGE LOSS PREVENTION DEPARTMENT - E. Hartenstein
- 1CC: HOME OFFICE LOSS PREVENTION DEPARTMENT - Ind. Hyg. File
- 1CC: HOPKINTON LOSS PREVENTION DEPARTMENT - W. R. LaRoque
- 1CC: BALA CYNWYD LOSS PREVENTION DEPARTMENT - Ind. Hyg. File

CONOCLEUM NAIRN, INCORPORATED
CEDARHURST, MARYLAND

ASBESTOS IN AIR

On November 25, 1964, air samples were taken for asbestos at the slurry tank on No. 1 Machine. The results of this investigation and our observations are summarized as follows:

CONCLUSIONS

1. Asbestos in air did not exceed the hygienic guide of 5 million particles per cubic foot of air for silicates containing less than 1% crystalline silica.
2. The one-half percent moisture content of the package asbestos apparently prevents excessive dusting.

S. T. Wagner
S. T. Wagner
Senior Industrial Hygienist
Loss Prevention Department

December 22, 1964

STW/kjs

DISCUSSION

The results of air sampling during charging of the slurry tanks in Machine Room No. 1 showed that dust levels ranged from 2.0 to 2.8 million particles per cubic foot of air. This was below the hygienic guide of 5 million particles per cubic foot of air for airborne asbestos dust. It appears that the one-half percent moisture content of the material was the controlling factor in maintaining low dust levels.

Local ventilation was not provided for the charging operation of the slurry tanks. However, if the moisture content is reduced, local exhaust ventilation would be required to control the airborne dust.

It would be desirable to improve the housekeeping conditions at the charging platform. It was observed that asbestos accumulations were on the floor and adjacent equipment. Periodic wash down of the platform with water would improve this condition.

DATA
ASBESTOS IN AIR

Method of Collecting:

Millipore Filter Pump with impingers and collected in distilled water at a rate of 5 liters per minute.

Method of Analysis:

The samples were counted microscopically by the light field technique using a Spencer Bright-Line Pneumocytometer Counting Cell.

Hygienic Guide:

5 million particles per cubic foot of air (MPPCF) for silicates (asbestos) containing less than 1% crystalline silica.

<u>Sample No.</u>	<u>Time</u>	<u>Location</u>	<u>MPPCF</u>
1.	55 min.	Breathing zone sampling asbestos into slurry mixing tank.	2.0
2.	55 min.	General room at asbestos slurry mixing tank.	2.8

1966

CONGOLEUM NAIRN.
CEDARHURST, MARYLAND

AIRBORNE ASBESTOS DUST

SUBMITTED BY:

S. T. WAGNER
SENIOR INDUSTRIAL HYGIENIST
LOSS PREVENTION DEPARTMENT

April 26, 1966

3cc: Baltimore L.P. - C. Grieco
3cc: E. Orange L.P. - E. Hartenstein
1cc: Home Office L.P. - Ind. Hyg. File
1cc: Hopkinton L.P. - W. R. LaRocque
1cc: Bala Cynwyd L.P. - Ind. Hyg. File

DISCUSSION

The results of air sampling showed that the concentrations of asbestos in air were below the threshold limit value of 5 million particles per cubic foot of air as indicated by the Data Sheet. From the standpoint of good industrial hygiene practice, it would be desirable to provide an industrial vacuum cleaning unit to clean the floors, equipment and remove residual asbestos from the bag.

The threshold limit value was approached at the broke box where the bags were thrown after being dumped into the slurry tank. Visible airborne dust was observed when this was done. Moreover, it was observed that a broom was used to remove spilled material on the floor. For these reasons, it would be advisable to provide a vacuum unit and maintain contamination of the environment at a minimum.

DATA

AIRBORNE ASBESTOS DUST

Method of Collecting: Midget impingers and collected in distilled water at a rate of 5 liters per minute.

Method of Analysis: The samples were counted microscopically by the light field technique using a Spencer Bright-Line Haemocytometer counting cell. All particles including long fibers were counted.

Threshold Limit Value: 5 million particles per cubic foot of air (MPPCF).

<u>Sample No.</u>	<u>Time</u>	<u>Location</u>	<u>MPPCF</u>
1.	60 min.	Breathing zone at control panel dumping asbestos.	1.2
2.	60 min.	Breathing zone at charging position dumping asbestos.	1.7
3.	105 min.	Breathing zone at rewind position removing felt from paper making machine.	0.7
4.	105 min.	Breathing zone at slitter position removing felt from paper making machine.	0.8
5.	45 min.	General room left side of broke box at slurry mixing area.	2.9
6.	45 min.	General room front of broke box.	3.9

CONGOLEUM NAIRN
CEDARHURST, MARYLAND
AIRBORNE ASBESTOS DUST

SUBMITTED BY:

Edward E. Fowler
Edward E. Fowler
Loss Prevention Department
Dec. 1, 1970

6cc: Baltimore LP - D.L. Bailey
1cc: Home office LP - Dr. A.L. Cudworth
1cc: Hopkinton LP - R.W. Van Heuten
1cc: Baltimore LP - Industrial Hygiene File

CONGOLEUM NAIRN

CEDARHURST MARYLAND.

AIRBORNE ASBESTOS DUST

On October 20, 1970, I sampled the mixing and rewind area for airborne asbestos dust. The results of my survey are as follows:

CONCLUSIONS

1. Airborne asbestos dust concentrations at machine #1 were below the Threshold Limit Value of 5 million particles per cubic foot of air.
2. The major dust concentration, 4.0 million particles per cubic foot of air, was at the slurry tank inspection port with the port open.

RECOMMENDATION

1. The inspection port slurry tank inspection port should be kept closed during normal operations.

Edward S. Fowler
Job Prevention Department

DISCUSSION

For a regular eight hour exposure (forty hour workweek), the Threshold Limit Value (TLV) for asbestos in air is 5 million particles per cubic foot. If this level is not exceeded, the average employee should not show an excessive absorption of asbestos. Short exposure tolerance is not applicable to asbestos.

Air sampling results during charging and mixing of the slurry tanks at machine number 1 disclosed that asbestos dust levels ranged from 0.1 to 4.0 million particles per cubic foot of air. Since this is below the threshold limit value of 5 million particles per cubic foot of air, as outlined by the American Conference of Governmental Industrial Hygienists, it appears that the moisture content of the asbestos is the dust-controlling factor.

Local exhaust ventilation was not provided for machine number 1. However, if the asbestos moisture content is reduced, it is reasonable to expect airborne dust concentrations to be greater and local exhaust ventilation should be considered.

Due to the fact that air borne asbestos concentrations were higher at the open inspection port, it would be advisable to insure that this port be kept closed during charging and mixing operations.

DATA

AIRBORNE ASBESTOS DUST

Method Of Collecting:

Midget impingers, collecting medium distilled water at a sampling rate of 5 liters per minute.

Method Of Analysis:

Samples were counted microscopically using a light field technique with a Spencer Bright-Line Haemocytometer counting cell. Particles between 2 and 10 microns were counted.

Threshold Limit Value:

Asbestos, all types-----5 million particles per cubic foot of air (MPPCF).

<u>SAMPLE NO.</u>	<u>TIME</u>	<u>LOCATION</u>	<u>MPPCF</u>
1.	30 min.	Hopper inspection port, during dumping, port open	4.0
2.	30 min.	Control panel, OBZ, inspection port open, no dumping	1.0
3.	60 min.	Same as No. 2 except inspection port closed	.10
4.	60 min.	Hopper inspection port, no dumping, port closed	2.0
5.	60 min.	General room sample, floor level, south end of operation.	.20

File 'Asbestos' Clippings

CONGOLEUM INDUSTRIES

FINKSBURG, MARYLAND

ASBESTOS SURVEY.

Submitted by:

Edward E. Fowler
Edward E. Fowler
Industrial Hygienist
March 29, 1972

cc: Baltimore L.P. - J. Waterbury
Home Office L.P. - Dr. A. L. Cudworth
Home Office L.P. - Dr. J. Donaldson
Hopkinton L.P. - R. W. VanHouten
Hopkinton L.P. - S. Pihl
Baltimore L.P. - Industrial Hygiene File

CONGOLEUM INDUSTRIES
FINKSBURG, MARYLAND

ASBESTOS SURVEY

On February 23 and 24, 1972, I sampled for asbestos in air at numbers 1 and 4 slurry operations. The reason for the survey was to evaluate the possible asbestos exposure presented to your employees and to suggest the necessary controls. The results of the survey are listed below.

Conclusions

1. With the exception of one sample taken at slurry mixer number 4 operation, the Threshold Limit Value of 5 fibers/ml $> 5 \mu$ in length was not exceeded.
2. The procedure for cleaning asbestos spills from floors and railroad cars should be changed.
3. The hydropulper throws wet asbestos into the work area.

Recommendations

1. Provide a cover for the hydropulper. (*in process*)
2. Provide a vacuum system to clean spilled asbestos from floors, work surfaces and railroad cars. (*completed, but they need satisfied*)
3. Do not throw empty asbestos bags from the number 1 slurry mixer operators platform into the waste cart. (*rotating brush cleaning after each shift*)
4. Improve hygiene as pertains to care and storage of respirators.
5. Increase housekeeping efforts at both slurry mix operations.

Edward E. Fowler
Edward E. Fowler
Industrial Hygienist
March 29, 1972

EEF/bb

DISCUSSION

Instrumentation

Instruments used for collecting the samples were a Mine Safety Appliance Monitaire Sampling Pump and Millipore Filters. Samples were read on a phase-contrast microscope.

Standards

The Threshold Limit Value of 5 fibers/ml $>54\mu$ in length as determined by the membrane filter method at 400-450 X magnification (4 mm objective) phase contrast illumination was chosen as a standard. This standard can be found in Threshold Limit Values of Airborne Contaminants and Physical Agents with Intended Changes Adopted By The American Conference of Governmental Industrial Hygienists for 1971. The standard used can be found on page 34, notice of Intended Changes.

1. Hydropulper Cover

A cover should be provided for the hydropulper. When the asbestos slurry is mixed some of it is thrown from the hydropulper into the work area. A counter-weighted cover, kept closed except during loading operations should eliminate this condition.

2. Asbestos Spillage Control-Vacuum System

A vacuum cleaner system instead of a broom should be used to clean asbestos from floors, railroad cars, and work surfaces. It is worthwhile to note that the two highest sample results were obtained when the operators were sweeping for part of the sample time. The results were 5.5 and 4.5 fibers/ml (see data sheet).

It should also be noted that sweeping the floors with a broom created a visible dust cloud, which probably accounted for the higher sample results.

3. Dust Control-Empty Asbestos Bags

Empty asbestos bags at slurry mixer number 1 should be carried down the stairs and placed in the waste cart rather than thrown from the operators platform into the cart below. This may be an imposition on the operator, but it will considerably reduce the amount of asbestos that becomes airborne.

4. Respirators-Care and Maintenance

The following improvements in maintenance and care of respirators should be initiated:

1. A program to insure the frequency of changing the filters.
2. A program to insure that respirators are worn where needed.
3. Employee education as to proper storage of respirators and the importance of keeping the face pieces clean.

5. Housekeeping

Housekeeping should be improved in both slurry mix areas because asbestos is relatively light and easily becomes airborne when it is disturbed. Perhaps the best approach to improving housekeeping is to clean all spills as soon as they occur.

DATA

AIRBORNE ASBESTOS

METHOD OF COLLECTING:

MSA Monitaire Pump and Millipore Filters. Sampling rate, 2.8 liters/minute.

METHOD OF ANALYSIS:

Samples were counted on a phase contrast microscope.

THRESHOLD LIMIT VALUE:

Asbestos (all types) - 5 fibers/ml > 5 μ in length.

<u>Sample Number</u>	<u>Location</u>	<u>Fibers/ml</u>
29G	Slurry mixer #1 control station first floor.	1.0
30G	#4 slurry mixer - mixer operator wearing portable pump with filter pinned to shirt. Operator sweeping floor.	5.5
39B	Slurry mixer #1, operators station near control panel, 2nd level.	2.5
42D	Same as 39B except at top of stairs.	2.5
42G	Slurry mixer #4 filter & pump worn by operator with filter pinned to collar.	2.1
53F	Same as 42G	1.7
60D	#1 slurry mixer operators station 2nd level.	1.7
63E	Same as above except sample taken at loading of operators station.	1.3
64D	#4 slurry mixer for location.	2.2
71D	#4 slurry mix general room sample.	0.6
95D	Slurry mixer #1 pump & filter worn by operator. Operator sweeping floor.	4.5

memo

FROM

1972 APRIL 1972						
S	M	T	W	T	F	S
	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

1972 MAY 1972						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

J. F. MORTON

5/2/72

Marty - Of the sixteen tests performed so far, none have exceeded 5.0 fibers/cc, and only three have exceeded 2.0 fibers/cc.

J.F.M.

Ced. R. J. J. J.

CYANAMID

ASBESTOS FIBER ANALYSIS

Sample Location SLURRY MIXER #1 MILL
 Specific Materials/Product JM^{80%} 35^{20%} LAKE 705 Pump Rate 2 l/min.
 Dated Sampled 4-12-72 Time Finished _____
 Sampled By _____ Time Started 11 ²⁰ AM
 Date Analyzed 4-18-72 Elapsed Time 46.7 min.
 Analyzed By _____ Vol. Sampled 93,400 c.c.
 Field Area .25 mm x .25 mm Blank _____

Remarks: R. Mann's shift

5 SLURRIES

4.5 x 855

2394

425 x 93.4 x 1000

$$\frac{(4.5)(855) \times 10^2}{(6.25)(9.34) \times 10^2} = 0.66$$

OPERATOR S. GAAYBEAL

Fibers > 5 μ

4
1
6
10
4
8
4
11
2
1
9
3
3
3
3
2
4
4
7
5

Analysis: 0.66 Fibers/cm

T.L.V. 5.0 Fibers/cm

Total: 90

Avg.: 4.5

ASBESTOS FIBER ANALYSIS

Sample Location Box CAR Doorway (#4 mill.)
Specific Materials/Product JM #5 Pump Rate 2 l/min.
Dated Sampled 4-18-72 Time Finished _____
Sampled By _____ Time Started 11⁰⁰ AM
Date Analyzed 4-18-72 Elapsed Time 48.2 min.
Analyzed By _____ Vol. Sampled 96,400 c.c.
Field Area .25 mm x .25 mm Blank _____

Remarks:

S. R. REDDING waking on
floor in doorway.

Fibers > 5 μ

5
2
5
1
3
4
8
2
1
3
12
5
4
1
4
3
2
0
1
1

Analysis: 0.497 Fibers/cc

T.L.V. 5.0 Fibers/cc

Total: 70

Avg.: 3.5

ASBESTOS FIBER ANALYSIS

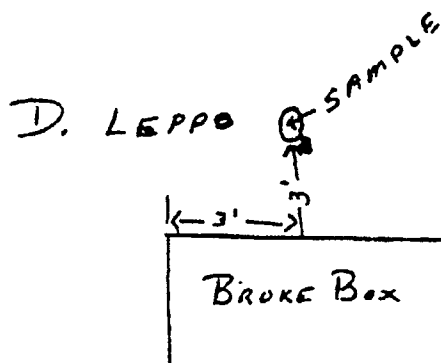
Sample Location BROKE BOX #1 MILL (EMPTY BAGS)
 Specific Materials/Product JM⁴⁵ AND LAKE TDS Pump Rate 2 l/min.
 Dated Sampled 4-20-72 Time Finished _____
 Sampled By _____ Time Started 2⁵⁰ PM
 Date Analyzed 4-21-72 Elapsed Time 38.79
 Analyzed By _____ Vol. Sampled 77.580 c.c.
 Field Area .25mm x .25mm. Blank _____

Remarks: M. Barnick's shift

STARTED WITH EMPTY
BROKE BOX

4 SLURRIES

Fibers > 5 μ



2
3
0
0
2
3
5
0
4
2
0
0
3
1
1
1
2
0
2
3

Analysis: 0.3 Fibers/cc

Total: 34

T.L.V. 5.0 Fibers/cc

Avg.: 1.7

ASBESTOS FIBER ANALYSIS

Sample Location REWINDER #1 MACHINE

Specific Materials/Product 035 W562 Pump Rate 2 1/min.

Dated Sampled 4-21-72 Time Finished

Sampled By _____ Time Started 2 ¹⁵ pm

Date Analyzed 4-25-72 Elapsed Time 15.38 min

Analyzed By _____ Vol. Sampled 30,760 c.c.

Field Area .25 mm x .25 mm Blank

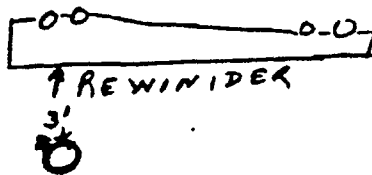
Remarks:

TURN UP AND REWIND
4 min 10 min

m. Barrick's shift.

Fibers > 5 **μ**

0
17
0
0
1
0
1
0
0
0
0
0
0
0
1
1
0
0
0



Analysis: 0.483 Fibers/cc

T.L.V. 5.0 Fibers/cc

Total: 21

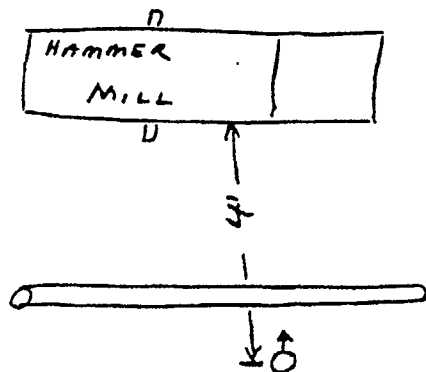
Avg.: 1.05

ASBESTOS FIBER ANALYSIS

Sample Location HAMMER MILL # 1 MILL
 Specific Materials/Product _____ Pump Rate _____ l/min.
 Dated Sampled 4-22-72 Time Finished _____
 Sampled By _____ Time Started 2 ⁴⁵ PM
 Date Analyzed 4-24-72 Elapsed Time 16.69
 Analyzed By _____ Vol. Sampled 33,380 c.c.
 Field Area .25mm x .25mm Blank _____

Remarks: M. Bormide's Suit
 ASBESTOS BROKE

Fibers > 5 μ



2
0
2
3
2
1
1
0
0
0
2
1
3
2
1
0
0
4
0
0

Analysis: 0.492 Fibers/cc
 T.L.V. 5.0 Fibers/cc

Total: 24
 Avg.: 1.2

ASBESTOS FIBER ANALYSIS

Sample Location LAB.
Specific Materials/Product JM #5 Pump Rate 2 1/min.
Dated Sampled 4-21-72 Time Finished _____
Sampled By _____ Time Started 10⁰² AM
Date Analyzed 4-26-72 Elapsed Time 33.45
Analyzed By _____ Vol. Sampled 66,900 c.c.
Field Area .25 mm x .25 mm Blank _____

Remarks:

2 LOTS IN ROTAP

3 CANS IN WILLIAMS
DISINTEGRATOR

OPERATOR

WILBER FOURHMAN

Fibers > 5 μ

22
16
23
24
14
31
16
17
14
22
16
12
19
14
10
15
14
16
16
14

Analysis: 3.53 Fibers/cc

T.L.V. 5.0 Fibers/cc

Total: 345

Avg.: 17.25

ASBESTOS FIBER ANALYSIS

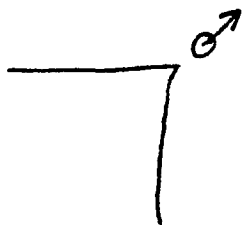
Sample Location #1 DRY END GENERAL ROOM SAMPLE
 Specific Materials/Product 032 WS55 Pump Rate 2 l/min.
 Dated Sampled 4-25-72 Time Finished _____
 Sampled By _____ Time Started 10⁰⁵ AM
 Date Analyzed 4-26-72 Elapsed Time 66, 16 min
 Analyzed By _____ Vol. Sampled 132, 320 c.c.
 Field Area .25 mm X .25 mm Blank _____

Remarks: W. Green's Shift

CEMENT BASE N.W.

Fibers > 5 μ

CORNER INSPECTION TABLE



UNLOADING ASBESTOS (JM#5)
 RUN HAMMER MILL
 REWIND 2 ROLLS

2
0
0
1
0
1
0
0
3
0
0
3
0
2
1
3
0
0
0
1

Analysis: 0.088 Fibers/cc

Total: 17

T.L.V. 5.0 Fibers/cc

Avg.: .85

ASBESTOS FIBER ANALYSIS

Sample Location #4 DRY END GENERAL ROOM SAMPLE
 Specific Materials/Product 030 - WSGY Pump Rate 2 l/min.
 Dated Sampled 4-23-72 Time Finished _____
 Sampled By _____ Time Started 2 ²⁵ PM
 Date Analyzed 4-26-72 Elapsed Time 62.6
 Analyzed By _____ Vol. Sampled 135,200 c.c.
 Field Area .25 mm x .25 mm Blank _____

Remarks: M. Bawick's Shift

REWIND 1 ROLL

SCALES
 [] ← 9' → 0

REWINDER

Fibers > 5 μ

0
0
0
0
0
1
1
0
0
0
0
0
0
0
0
0
0
0
0
0

Analysis: 0.0101 Fibers/cc

T.L.V. 5.0 Fibers/cc

Total: 2

Avg.: .1

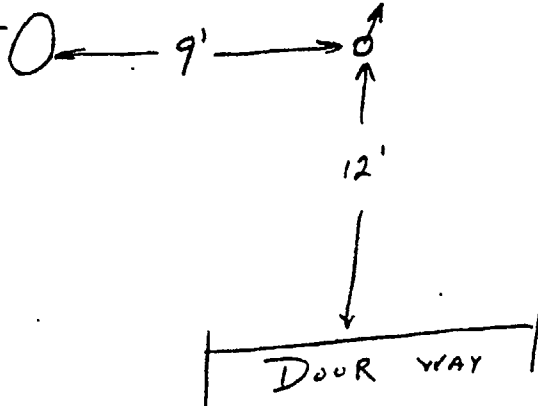
ASBESTOS FIBER ANALYSIS

Sample Location HYDRAPULPER ROOM - "GENERAL"
Specific Materials/Product WS 62 - JM²⁵ Pump Rate 2 l/min.
Dated Sampled 4-29-72 Time Finished _____
Sampled By _____ Time Started 2 ²⁵ PM
Date Analyzed 5-1-72 Elapsed Time 61.02 min.
Analyzed By _____ Vol. Sampled 122,040 c.c.
Field Area .25 mm x .25 mm Blank _____

Remarks: W. Green's shift

Fibers > 5 μ

CHEST LEVEL
CHART



0
0
1
1
0
0
0
1
1
1
0
0
2
0
3
0
1
0
1
0

Analysis: 0.067 Fibers/cc

Total: 12

T.L.V. 5.0 Fibers/cc

Avg.: 0.6

ASBESTOS FIBER ANALYSIS

Sample Location Box CAR - DOORWAY ONLY #1 MILL
Specific Materials/Product JM #5 Pump Rate 2 l/min.
Dated Sampled 4-30-72 Time Finished _____
Sampled By _____ Time Started 9 ²⁵ AM
Date Analyzed 5-1-72 Elapsed Time 19.72 MIN
Analyzed By _____ Vol. Sampled 39,440 c.c.
Field Area .25 mm x .25 mm Blank _____

Remarks:

OPERATOR

K. BROOKS

Fibers > 5 μ

12
7
6
2
2
4
2
5
0
3
4
5
8
1
2
4
3
2
3
5

Analysis: 1.39 Fibers/cc
T.L.V. 5.0 Fibers/cc

Total: 80
Avg.: 4

ASBESTOS FIBER ANALYSIS

Sample Location Box CAR AT #1 MILL AFTER DOOR WAY WAS UNLOAD.

Specific Materials/Product JM No. 5

Pump Rate 2 1/min.

Dated Sampled 3-29-72

Time Finished _____

Sampled By _____

Time Started 9 ²³ _{AM}

Date Analyzed 3 - 29 - 72

Elapsed Time 16.18 min

Analyzed By _____

Vol. Sampled 32,360 c.c.

Field Area .25mm x .25mm.

Blank Mullipore Lot 52924

Remarks:

SAMPLE COLLECTED AT
LEFT SIDE OF FORKLIFT
OPERATORS CHEST

8 SKIDS ^{of asbestos} WERE REMOVED

OPERATOR - A. LOCKARD

Fibers > 5 μ

[illegible]

Analysts: 0.23 Fibers/cc

Total: 11

T.L.V. 5.0 Fibers/cc

Avg.: .55

ASBESTOS FIBER ANALYSIS

Sample Location SLURRY MIXERS CHEST (#1 MILL)
 Specific Materials/Product 50% JMA5 20% LAKE Pump Rate 2 1/min.
 Dated Sampled 3-29-72 Time Finished _____
 Sampled By _____ Time Started 11:15 AM
 Date Analyzed 3-29-72 Elapsed Time 24.53 min
 Analyzed By _____ Vol. Sampled 49,060 c.c.
 Field Area .25mm x .25mm Blank MILLIPORE LOT 52924

Remarks: M Bonick's shift.

2 COMPLETE SLURRY MIXES

Fibers > 5 μ

OPERATOR
D. LEPP

0
2
4
3
2
4
2
1
0
0
0
3
3
3
2
2
1
1
2
0

Analysis: 0.49 Fibers/cc

Total: 35

T.L.V. 5 Fibers/cc

Avg.: 1.75

ASBESTOS FIBER ANALYSIS

Sample Location SOUTH END CONTROL PANEL, 7" ABOVE VALVE

Specific Materials/Product 80% JM No. 5 20% LAKE 7 DS Pump Rate 2 l/min.

Dated Sampled 4-3-72 Time Finished _____

Sampled By _____ Time Started 2 ³² PM

Date Analyzed 4-12-72 Elapsed Time 15.02 min.

Analyzed By _____ Vol. Sampled 30,040 c.c.

Field Area .25 mm x .25 mm Blank _____

Remarks: W. Green's Shift.

2 COMPLETE SLURRY MIXES

FAN OFF

(Operator D. Smith)

Fibers > 5 μ

15
8
6
9
10
10
12
7
6
13
14
14
17
12
14
12
11
9
6
11

Analysis: 4.93 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 216

Avg.: 10.8

(H)

ASBESTOS FIBER ANALYSIS

Sample Location 4 HYDRAPULPER OPERATOR #4 MILL
Specific Materials/Product JM^{87%} 5 and 7^{11%}MS7 Pump Rate 2 l/min.
Dated Sampled 4-11-72 Time Finished _____
Sampled By _____ Time Started 9:50 AM
Date Analyzed 4-19-72 Elapsed Time 86.6 min
Analyzed By _____ Vol. Sampled 173,200 c.c.
Field Area .25 mm x .25 mm Blank _____

Remarks: R. Mann's shift

2 HYDRAPULPER CYCLES

Operator. @ Arnold

Fibers > 5 μ

7
6
1
7
6
3
5
2
2
0
6
5
1
1
3
5
2
3
3
2

Analysis: 0.276 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 70

Avg.: 3.5

ASBESTOS FIBER ANALYSIS

Sample Location Box CAR AT #4 mill
Specific Materials/Product JM #5 Pump Rate 2 1/min.
Dated Sampled 4-11-72 Time Finished _____
Sampled By _____ Time Started 12 ²⁰ PM
Date Analyzed 4-12-72 Elapsed Time 100.5 min.
Analyzed By _____ Vol. Sampled 201,000 c.c.
Field Area .25 mm x .25 mm Blank _____

Remarks:

COMPLETE CAR

COLLECTED BY
FORK LIFT OPERATOR

A. LOCKARD

Fibers > 5 μ

[illegible]

152 159
30.4 31.8

Analysis: 2.16 Fibers/cc

T.L.V. 5 Fibers/cc

Total: 159

Avg.: 31.8

1981 ASBESTOS

FIBER ANALYSIS

CEDARHURST

<u>RIFFLED END</u>		SHEET#	FIBERS/CC	DATE SAMPLE
DRY END #5	K. GREEN ✓	6	0.047	7-23-8
	S. JONES ✓	19	0.032	7-21-8
WET END #5	STATIONARY ✓	20	0.012	7-21-8
B L D G #60	C. RAYER ✓	2	0.269	4-9-81
	C. RAYER ✓	4	0.255	4-9-8
	G. CROUSE	5	0.15	7-22-8
<u>DEILS SHIFT</u> DRY END #5	J. SNAPP ✓	10	0.015	8-19-8
	G. HOBAN ✓	11	0.03	8-20-8
WET END #5	STATIONARY ✓	9	0.0146	8-18-81
B L D G #60	E. EVANS ✓	8	0.029	7-31-8
	A. HERNANDEZ	12	0.067	8-21-8
E. HENRY - REFUSED TO WEAR PUMP AND FILTER 8 ³⁰ AM 8-18-				

SIXTH UNIT

DRY END #5

NAME	CHECK	SHEET	VALUE	DATE
J. DANNER	✓	15	0.019	9-14-81
S. DOLAN	✓	17	0.0154	9-15-81

WET END #5

STATIONARY	✓	18	0.034	9-15-81
------------	---	----	-------	---------

BLDG # 60

D. WAREHIME	✓	13	0.054	8-27-81
E JONES	✓	16	0.008	9-14-81

LOADING ASBESTOS

LIFT TRUCK
OPERATOR

L. TESTERMAN	✓	1	0.174	4-9-81
--------------	---	---	-------	--------

L. TESTERMAN	✓	3	0.3	4-9-81
--------------	---	---	-----	--------

HELPER

D. MEISNER	✓	7	0.088	7-24-81
------------	---	---	-------	---------

LAB

ROTAP AND

DISINTEGRATOR	G. CROUSE	✓*	14	0.54	9-10-81
---------------	-----------	----	----	------	---------

ROTAP

G. BRINKMAN	✓	22	0.80	9-22-81
-------------	---	----	------	---------

DISINTEGRATOR

G. BRINKMAN	✓*	21	11.35	9-24-81
-------------	----	----	-------	---------

DISINTEGRATOR

G. BRINKMAN	✓*	23	7.93	10-21-81
-------------	----	----	------	----------

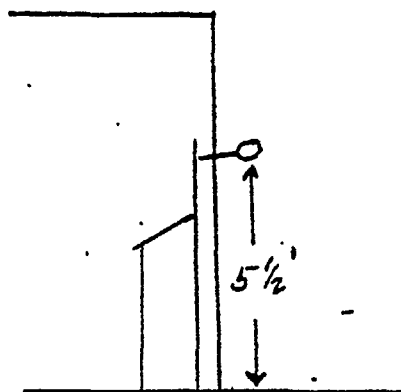
* RESPIRATOR USED

ANALYTICAL FIBER ANALYSIS

Machine WET END #4 MACHINE
 Sample Material/Product 030 WS 90 Pump Rate 1.85 l/min
 Date Sampled 2-7-79 Time Finished 3:03 PM
 Sampled By J. C. Sies Time Started 11:11 AM
 Date Analyzed 4-7-79 Elapsed Time 3:52 232 min
 Analyzed By J. C. Sies Vol Sampled 429200 cc
 Field Area 0.003025 Blank _____

Remarks: W. GREEN'S SHIFT

Fibers > 5



CLAMPED TO DESK
AT WET END

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1 1/2	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	1
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
1	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0

1 0 1 1 1/2 1

Analysis: 0.0296 Fibers/cc
 T.L.V _____ Fibers/cc

Total: 4.5
 Avg: 0.045

#2

FIBER ANALYSIS

#4 WATCHER
 Specific Materials Product: 030 WS90 Pump Rate 1.85 L/min
 Date Sampled 2-7-79 Time Finished 3:00 PM
 Sampled By J. U. Sies Time Started 11:23 AM
 Date Analyzed 4-7-79 Elapsed Time 3:37 217 MIN
 Analyzed By J. U. Sies Vol. Sampled 401450 cc
 Field Area 0.003025 Blank _____

Remarks: W. GREEN'S SHIFT

A. HERNANDEZ

Fibers > 5 μ

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
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	2	0
0	0	0	0	0
1	0	0	0	0
0	1/2	0	0	0
0	0	0	0	0
3	1/2	0	2	0

Analysis: 0.0387 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 5.5

Avg.: 0.065

10/10 - 11/11/79

#5 MACHINE WATCHER
 Sample Date: 040 WS 68 Pump Rate: 2.0 l/min
 Date Sampled: 2-10-79 Time Finished: 2:40 PM
 Sampled by: J. d. Liss Time Started: 10:40 AM
 Analyzed: 4-8-79 Elapsed Time: 4:00 240 min
 Analyzed By: J. d. Liss Vol. Sampled: 480000 cc
 Field Area: 0.003025 Blank: _____

Remarks: W. GREEN'S SHIFT

Fibers > 5 μ

C. HALE

0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	2	1/2
0	0	0	1	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1/2	1/2	0
0	0	0	0	0
0	0	0	0	1/2
0	1	0	0	0
0	0	0	0	0
0	0	0	3	0
1	0	0	0	0
0	0	0	0	0
0	1/2	0	2	0
0	0	1	0	0

2 1 1/2 2 1/2 8 1/2 1

Analysis: 0.091 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 15.5
 Avg.: 0.155

MIXER AFTER PUMP

#4 MIXING SYSTEM (OLD MILL)
 Pacific Materials Product 030 WS 64 Pump Rate 1.88 1/min
 Date Sampled 2-11-79 Time Finished 1:31 pm
 Sampled By J. C. Siler Time Started 9:31 AM
 Date Analyzed 4-8-79 Elapsed Time 4:00 240 min
 Analyzed By J. C. Siler Vol. Sampled 4512.00 : c
 Field Area 0.003025 Blank _____

Remarks: W. GREEN'S SHIFT

MIXER; A. LEPPA

2 HRS. ON DUTY

2 HRS. OFF.

Fibers > 5 μ
 3 4 4

1	2 1/2	1 1/2	
1	4 1/2	2 1/2	
2	4	1 3/4	
0	4 1/2	1 1/2	
0	3	2 1/2	
2	0	2	
3	1	0	
2	1 1/2	1 1/2	
1 1/2	1 1/2	2	
3	1 1/2	2 1/2	
1 1/2	1 1/2	2	
4 1/2	2 1/2	1	
1	1 1/2	1	
1	2	1 1/2	
0	1	1 3/4	
1 1/2	3	2 1/2	
1 1/2	3	2 1/2	
2 1/2	2	0	
2 1/2	0	0	
2	0	1	

27 1/2 33 1/2
 35 1/2

Analysis: 1.01 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 96.5
 Avg.: 1.61

ANALYST: J. L. SIEG

WET END #5 MACHINE

Product: 030 WS 88 Pump Rate: 1.85 l/min

Date Sampled: 2-16-79 Time Finished: 1:56 PM

Analyst: J. L. Sieg Time Started: 9:50 AM

Sampled: 4-9-79 Elapsed Time: 4:06 246 min

Analyzed By: J. L. Sieg Vol. Sampled: 455100 cc

Field Area: 0.003025 Blank:

Remarks: R. MANN'S SHIFT

5' OFF FLOOR, ON
FRAME ABOVE CLOCK.
SOUTH END OF
CONTROLS

Fibers > 5 μ

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	1	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	1/2	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	0	0
0	0	1/2	1	1

Analysis: 0.016 Filters/cc

T.L.V. _____ Filters/cc

Total: 2.5

Avg.: 0.025

28

B.L.D.G. #60

SEE BELOW

2-27-79

J. C. Siles

4-9-79

Analysed by J. C. Liss

Field Area 0.003025

1.85

Time Filled : 10:48 AM

Time started 8:48 AM

Classroom 2:00 120 min

Vol Samples: 222000

Blank

1954

UNLOADING ASBESTOS

1CAR 7D5-

1 CAR #5

L. TESTERMAN

LIFT. TRUCK OPERATOR

Filipino

[illegible]

2 1 2

Analysis: 0.051 Filters/cc

T.L.V. _____ Fibers/cc

Total: 4

Avg.: 0.04

BUILDING FLOOR PLAN

Building: BLDG #60
 Sample Date: 040 WS 88 Pump Date: 1.85 1/7/88
 Date Sampled: 2-27-79 Time Finished: 1:36 PM
 Sampled By: J. C. Liles Time Started: 9:04 AM
 Date Analyzed: 4-9-79 Elapsed Time: 4:32 272 MIN
 Analyzed By: J. C. Liles Vol. Sampled: 503.200 cc
 Field Area: 0.003025 Blank: _____

Remarks:

W. GREEN'S SHIFT

Fibers > 5

ASBESTOS MIXING

S. OWEN

0	0	0	0	1
0	0	1/2	0	1/2
0	0	0	0	0
0	0	0	0	0
1	3	0	0	1
0	0	0	1	0
1	0	0	0	0
0	1	0	0	1/2
0	0	0	0	0
0	0	0	0	0
0	1/2	0	0	0
0	0	0	1/2	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1/2	1
0	0	1	0	0
1/2	0	0	2	0
0	0	0	0	0
0	1	0	0	0

4 1/2 5 1/2 1 1/2 5 3

Analysis: 0.11 Fibers/ccTotal: 19.5

T.L.V. _____ Fibers/cc

Avg.: 0.195

ANALYSIS FIBER ANALYSIS

Sample No. LAB
 Specific Materials/Product SEE BELOW Pump Rate 1.85 1/min
 Dated Sample 3-1-79 Time Finished 3:51 PM
 Sampled By J. A. Liss Time Started 1:09 PM
 Date Analyzed 4-10-79 Elapsed Time 2.42 162 min
 Analyzed By J. A. Liss Vol Sampled 299700 cc
 Filter Area 0.003025 Blank

Remarks:

DEAN BLIZZARD

Fibers = 5

10 SAMPLES THRU DISINTEGRATOR

3 SAMPLES #5 IN ROTAP
 1 SAMPLE 7DS IN ROTAP

2	2	2	
2 1/2	1 1/2	2 1/2	
1	2	1 1/2	
3	2 1/2	1 1/2	
2 1/2	2	1 1/2	
1	3	1 1/2	
1	0	5	
7	0	1	
1 1/2	0	0	
2	4	0	
4	1	1 1/2	
3	2	1 1/2	
4	1 1/2	1 1/2	
4	3 1/2	1 1/2	
1 1/2	3	1	
2	1	0	
1 1/2	1	2	
0	2	2	
2	1	2 1/2	
1 1/2	0	1	

45 31 32

Analysis: 1.02 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 1.08

Avg.: 1.08

ASPECT: FREE L.A. 0115

WET END #4

Specific Materials/Product: WS 88

Pump Rate 1.85 ... 1/min

Noted & dated 3-5-79

Time Finished 3:04

Typed By L. L. Jones

Time Started 10:44

4-10-79

Closed Time 4:22 262 min

Delivered by J. C. Sills

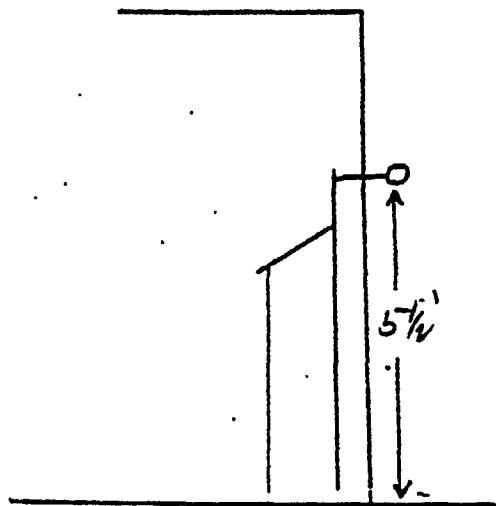
Vol Samples 484700 c c

Field No. 0.003025

Blank

Remarks: R MANN'S SHIFT
WS 88 START-UP

Fibers ≥ 5 μ



CLAMPED TO DESK
AT WET END

0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	$\frac{1}{2}$	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
$\frac{1}{2}$	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	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
$\frac{1}{2}$	$\frac{1}{2}$	1	1	0

$\frac{1}{2}$ 1 1 1 0

Analysis: 0.023 Fibers/cc

Total: 4

T.L.V. _____ Fibers/cc

Ans: 0.04

#12

BLDG #60
 Date Materials/Drawn WS 81
 Red Stamp # 3-5-79
 Taken By J. C. Liss
 Date 4-10-79
 Taken By J. C. Liss
 Field Area 0.003025
 Sample 1.85
 Time Finished 3:03 PM
 Time Started 10:52 AM
 Elapsed Time 4:11 257 min
 Vol Sampled 464350
 Blank

ॐ नमः शिवायः

R. MANN'S - SHIFT

File # 5

ASBESTOS Mixing.

L. BITZEL

[illegible]

Analysis: 0.033 Filters/cc

T.L.V	Fibers/cc
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100

Total: 3.5

Avg.: 0.055

ANALYSIS OF FIBER DUST

4 WATCHER
 Specific Material/Product WS 90 Pump Rate 1.85 1/min
 Date Sampled 3-6-79 Time Finished 1:52 PM
 Analyzed By J. L. Liss Time Started 8:47 AM
 Date Analyzed 4-12-79 Elapsed Time 5:05 305 min
 Analyzed By J. L. Liss Vol. Sampled 564250 cc
 Field Area 0.003025 Blank _____

Remarks:

R. MANNS - SHIFT

Fibers > 5 μ

G. MARKEL

USED HAMMER
MILL 10 MIN.

0	0	0	0	0
1/2	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1/2	1	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	1	1	0
0	1/2	0	0	0
0	0	0	1	0
0	0	0	0	1/2
1	0	1/2	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	0	0
1/2	2	2 1/2	3	1/2

Analysis: 0.048 Filters/cc
 T.L.V. _____ Filters/cc

Total: 9.5
 Avg.: 0.095

ANALYSIS REPORT

#4 MIXING SYSTEM (OLD MILL)
 Specific Materials/Product WS 90 Pump Rate 1.85 1/min
 Date Sampled 3-6-79 Time Finished 1:36 PM
 Sampled By J. C. Liles Time Started 8:56 AM
 Date Analyzed 4-12-79 Elapsed Time 4:40 280 MIN
 Analyzed By J. C. Liles Vol. Sampled 512000 cc
 Field Area 0.003025 Blank _____

Remarks:

R. MANN'S SHIFT

Fibers > 5 μ

MIXER - R. FOBLE.

2 1/2 HRS. MIXING

2 1/2	1	1 3/4	1	1 1/2
1 1/2	1 1/2	2	1	2
1 1/2	2	1 1/2	2	1
2 1/2	0	0	0	1 1/2
1 1/2	1	1	1 1/2	1 1/2
3 1/2	3	1 3/4	0	1 1/2
1	2	1 1/2	0	1
0	1	0	1 1/2	2
2 1/2	3 1/2	2 1/2	3	1 1/2
2 1/2	1 1/2	2 1/2	3 1/2	1 1/2
2 1/2	1	1	2	0
0	1	2	4 1/2	1 1/2
0	1	1	1	1 1/2
0	1 1/2	2	1	2
1 1/2	3	3	1 1/2	2
2	3	1 1/2	2	1
1 1/2	2	1	1	1 1/2
1 1/2	1	2 1/2	3	0
1	1	1 1/2	2	1 1/2
2 1/2	1	1 3/4	1 1/2	1 1/2

28 1/2 31 35 32 23 1/2

Analysis: 0.818 Fibers/cc

Total: 150

T.L.V. _____ Fibers/cc

Avg: 1.50

ASBESTOS FIBER ANALYSIS

Name: ASBESTOS UNLOADING (OLD MILL)
 Sample No.: #5 Pump Rate: 1.85
 Date: 3-7-79 Time Finished: 2:32 PM
 Analyzed By: J. C. Siler Time Started: 1:00 PM
 Date Analyzed: 4-1-79 Elapsed Time: 1:32 92 min
 Analyzed By: J. C. Siler Vol. Sampled: 170200 cc
 Field Area: 0.003025 Blank: _____

Remarks:

L. TESTERMAN
 LIFT TRUCK OPERATOR

Fibers > 5 μ

1 CAR LOAD OF

#5 FIBERS

0	0	0	0	1
0	0	0	0	1/2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	1 1/2
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	1/2	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	1/2
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0

1 1 1 2 1/2 5 1/2

Analysis: 0.18 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 11
 Avg.: 0.11

ANALYSIS REPORT

Location: ASBESTOS UNLOADING (OLD MILL)
 Sample Identification: #5 Pump Rate: 1.85 l/min
 Date Sampled: 3-7-79 Time Finished: 2:33 PM
 Sampled By: J. C. Sies Time Started: 1:00 PM
 Date Analyzed: 4-1-79 Elapsed Time: 1:33 93 min
 Analyzed By: J. C. Sies Vol. Sampled: 172050 cc
 Field Area: 0.003025 Blank: _____

Remarks:

R. MILLER (HELPER)

Fibers > 5 μ

1 CAR LOAD OF
#5 FIBERS

2	0	0	0	0
0	0	1/2	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	2 1/2	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	1	0	0
0	0	0	0	0
4	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	1
0	0	0	0	0
0	0	0	0	0

5 2 1/2 1/2 0 2

Analysis: 0.16 Filters/cc
 T.L.V. _____ Fibers/cc

Total: 10
 Avg.: 0.1

#11

ASBESTOS FIBER ANALYSIS

Location DRY END #5 MACHINE
 Specific Materials/Product 030 W588 Pump Rate 1.85 1/min.
 Dated Sampled 3-13-79 Time Finished 1:49 PM
 Sampled By J. L. Sier Time Started 8:43 AM
 Date Analyzed 4-12-79 Elapsed Time 5:06 306 min
 Analyzed By J. L. Sier Vol Sampled 5661000 cc
 Field Area 0.003025 Blank _____

Remarks:

S. RIFFLE'S SHIFT

Fibers $\geq 5 \mu$

W. CRONE WATCHER

0	0	0	0	0
0	0	0	0	0
1/2	0	0	0	0
0	0	2	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	1/2	1/2	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	1/2
1	1/2	0	0	0
0	0	1/2	0	0
0	0	0	0	0
0	1	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1/2	0	0	0	0
0	0	0	0	0

3 2 3 2 1/2

Analysis: 0.052 Fibers/ccTotal: 10.5

T.L.V. _____ Fibers/cc

Avg.: 0.103

#18

WET END #5 MACHINE

Sample Date: 3-13-79 Pump Rate: 1.85 l/min
 Time Finished: 1:44 PM
 Sampled By: J. L. Sies Time Started: 8:50 AM
 Date Analyzed: 4-18-79 Elapsed Time: 4:54 294 min
 Analyzed By: J. L. Sies Vol. Sampled: 543900 cc
 Field Area: 0.003025 Blank: _____

Remarks: S. RIFFLE'S SHIFT
5 1/2' OFF FLOOR, ON
FRAME ABOVE CLOCK.

Fibers > 5 μ

SOUTH END OF CONTROLS

1	0	1/2	0	0
0	0	0	0	0
0	0	0	1/2	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1/2
0	1/2	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	1
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	1/2	0	0	0
0	0	0	1/2	0
0	0	0	0	0

3 2 1/2 1 3 1/2

Analysis: 0.052 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 10Avg.: 0.1

REMARKS: FIVE BATHS

1. Pump Model DRY END #4 MACHINE
 2. Specific Materials/Product WS 90 Pump Rate 1.85 1/min.
 3. Dated Sampled 3-14-79 Time Finished 2:29 PM
 4. Sampled By J. L. Sier Time Started 8:41 AM
 5. Date Analyzed 4-18-79 Elapsed Time 5:48 348 min.
 6. Analyzed By J. L. Sier Vol Sampled 6438.00 cc
 7. Field Area 0.003025 Blank

འཛུགས་པུ་ཁུ་ལྷན་པུ་ཁུ་

S. RIFFLE'S SHIFT

Fibers: 5

J. ARBAUGH - WATCHER

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
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	11 ₂
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
0	0	0	0	0
1	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0

3 0. 1 0 1 1/2

Analysis: 0.024 Filters/cc

T.L.V. _____ Fibers/cc

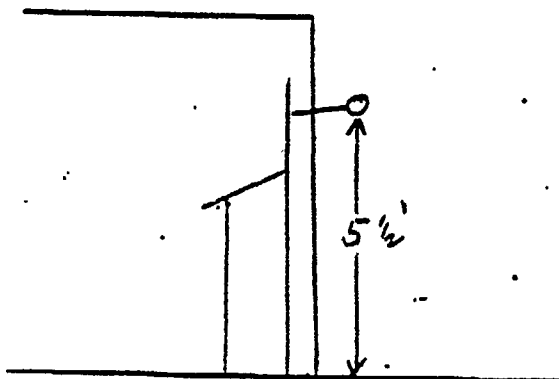
Total: 5.5

Ans: 0.055

H20

FIBER ANALYSIS

Location: WET END #4 MACHINE
 Specific Materials/Product: WS 90 Pump Rate: 1.85 l/min.
 Date Sampled: 3-14-79 Time Finished: 2:24 PM
 Sampled By: J. J. Liss Time Started: 8:47 AM
 Date Analyzed: 4-18-79 Elapsed Time: 5:37 337 min.
 Analyzed By: J. J. Liss Vol Sampled: 623450 cc
 Field Area: 0.003025 Blank:

Remarks: S. RIFFLE'S SHIFTFibers ≥ 5 μ 

CLAMPED TO
DESK AT WET END

0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	2	0	0	0
0	0	0	0	0
0	0	0	0	0
1	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	1	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0

1 1/2 5 1 1

Analysis: 0.039 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 8.5Avg.: 0.085

#21

ASHTEST FIBER ANALYSIS

Sample Location: #4 MIXING SYSTEM (OLD MILL)
 Specific Materials/Product: WS 90 Pump Rate: 1.85 1/min.
 Date Sampled: 3-15-79 Time Finished: 2:04 PM
 Sampled By: J. L. Lies Time Started: 9:22 AM
 Date Analyzed: 4-16-79 Elapsed Time: 4:42 282 min
 Analyzed By: J. L. Lies Vol Sampled: 521700 cc
 Field Area: 0.003025 Blank:

Remarks: S. RIFFLE'S SHIFT

Fibers > 5

K. WAGNER

TOTAL OF $1\frac{1}{2}$ HRS
MIXING

1 1/2	0	0	1 1/2	1
1	1 1/2	1 1/2	0	1 1/2
0	2 1/2	1 1/2	0	0
1	1	1 1/2	0	0
2	2 1/2	0	0	0
0	0	0	0	0
0	1	1 1/2	1 1/2	1 1/2
1 1/2	0	0	0	1 1/2
2	3 1/2	0	2	3
1	1 1/2	0	1 1/2	3 1/2
0	0	0	1	0
2	0	0	1	1 1/2
1 1/2	0	0	0	0
2	0	2 1/2	2	1 1/2
1	0	0	1	1 1/2
0	0	0	1	0
1	1 1/2	1 1/2	1	4 1/2
2	1 1/2	1	1 1/2	1 1/2
4	0	1 1/2	1	0
1	0	1	2	0

23 1/2 15 1/2 10 1/2 15 20 1/2

Analysis: 0.46 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 85

Avg.: 0.85

ASBESTOS FIBER ANALYSIS

Sample Location BLDG #60

Specific Materials/Product WS 88

Pump Rate 1.85 1/min.

Dated Sampled 3-15-79

Time Finished 1:43 PM

Sampled By J. L. Pires

Time Started 9:52 AM

Date Analyzed 4-16-79

Elapsed Time 3:51 231 min

Analyzed By J. L. Pires

Vol Sampled 427.350 c.c.

Field Area 0.003025

Blank

Remarks: S. RIFFLE'S SHIFT

Fibers > 5

ASBESTOS MIXING

R. FRANKLIN

0	1 1/2	0	1 1/2	0
0	0	1	0	0
1 1/2	1	1 1/2	0	0
0	0	0	0	0
0	0	0	1	0
1 1/2	0	0	0	0
0	0	1 1/2	0	1
0	0	0	1	0
0	0	0	1	1 1/2
1 1/2	0	0	1 1/2	0
0	1 1/2	0	0	0
0	0	0	0	2
0	0	1 1/2	1 1/2	0
1	1 1/2	0	0	0
0	0	2	1 1/2	0
1 1/2	0	2	0	0
0	1 1/2	0	0	1 1/2
0	0	0	2 1/2	0
0	0	1	0	0
0	0	1 1/2	1	0

5 5 9 8 5

Analysis: 0.21 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 32.5

Avg.: 0.325

220

ASBESTOS FIBER ANALYSIS

Sample Location BLDG #60

Specific Materials/Product SEE BELOW

Pump Rate 1.85 1/min.

Date Sampled 3-22-79

Time Finished 3:41 PM

Sampled By J. L. Liss

Time Started 12:49 PM

Date Analyzed 4-16-79

Elapsed Time 2:51 171 min.

Analyzed By J. L. Liss

Vol Sampled 316 350 cc.

Field Area 0.003025

Blank

Remarks:

UNLOADING ASBESTOS
B. ROOP - HELPER

1 LOAD 7 D1

1 LOAD 7MS7

1 LOAD #5

Fibers > 5

0	0	0	0	0
1	1	0	1/2	1/2
1/2	0	1/2	0	0
0	1	0	0	0
1/2	0	0	0	0
0	0	0	2	0
1	0	0	0	1
0	2	0	0	1
1	0	0	0	0
0	0	0	1/2	0
1/2	0	1/2	0	0
0	0	0	0	1/2
1/2	0	0	1/2	1/2
0	0	1	0	0
0	0	0	0	0
0	1/2	0	0	1
0	0	0	1	0
0	0	1/2	0	0
0	0	0	1	0
0	0	0	0	0

6 4 1 6 5

Analysis: 0.237 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 265

Avg: 0.265

#24

ASBESTOS FIBER ANALYSIS

Sample Location LABSpecific Materials/Product SEE BELOWPump Rate 1.83 1/min.Date Sampled 4-22-79Time Finished 3:58 PMSampled By J. C. SierTime Started 1:13 PMDate Analyzed 4-24-79Elapsed Time 2:45 165 min.Analyzed By J. C. SierVol Sampled 305.50 cc.Field Area 0.003025

Blank

Remarks:

D. BLIZZARD

Fibers > 5

8 ASBESTOS SAMPLES
IN ROTAP6 - #5
1 - 7MS1
1 - 6D04

4	0	2 1/2	
1/2	1	2	
4	3	3 1/2	
1	4	1 1/2	
5 1/2	1/2	1	
2 1/2	1	0	
3	1	1 1/2	
2 1/2	2 1/2	4	
2	1	1 1/2	
2	2	1 1/2	
1 1/2	0	1	
0	1	2 1/2	
1 1/2	1	1 1/2	
1/2	3 1/2	1	
3	2	3	
2 1/2	4	2 1/2	
2 1/2	3	1 1/2	
3 1/2	3 1/2	0	
2	3	1 1/2	
1	2 1/2	2 1/2	

44.0 34.5 30.5

Analysis: 1.76 Fibers/ccTotal: 114

T.L.V. _____ Fibers/cc

Avg.: 1.9

Nikon

HYDRAPULPER OPERATOR #4 MILL

JM #5 7.257

5-19-72

2

10 ⁵⁰ AM

62.79

125,580

.055 x .055

030 WS62

USING GUM ARABIC

1 HYDRAPULPER LOAD

OPERATOR; E. HENRY

W. GREEN'S SHIFT

DOOR OPEN, UNLOADING
CAR

1
0
1
1
1
0
1
0
0
2
0
2
2
0
0
0
1
0
0
0

1.35 Fibers

5.0 Fibers

Total: 12

Wg: .6

==

27 ~~11~~
Nikon

SLURRY MIXER
70% 20%
JM #5 2.05

5-19-72

#1 MILL

2

2:05 PM

66.65 min

133,300

0.55 x 0.55

W. GREEN'S SHIFT

D. HILL OPERATOR

8/4 WSGZ

FAN ON

NO DEFLECTORS

Fibers

2
0
1
4
1
2
3
0
2
0
2
1
3
2
3
0
4
2
3
3

4.24 Fibers, cc

5.0 Fibers, cc

Total 40

Avg. 2.0

28 -11
N. K. O. N

SLURRY MIXER

60% 30%
#5 7D5

2

8-16-72

9:05 AM

245.5 min.

491.000

R. MANA'S SHIFT

R. STARNER - OPERATOR

FAN ON

NO DEFLECTORS

Fibers 5

4
4
9
6
6
8
5
8
9
2
3
7
1
2
2
4
6
5
4
5

2.96

Fibers on

Total 103

5.0

Fibers on

Avg 5.15

231 (14)
Nikoni
161

SLURRY MIXER

30% 70% 60% 45

10-4-72

2

Estimated

Estimated

1 10 PM

Run Time

123.32 MIN

Estimated

246,640

.055 x .055
003025

D. LEPPA JR. OPERATOR

M. BARRICKS SHIFT

FAN ON

DEFLECTOR DOWN

8/4 035 WSG2

Fibers 5

1
6
12
6
3
3
3
9
6
6
5
6
10
3
4
4
5
5
8

27.5
920

avg 7.05 Fibers/cc

5.0 Fibers/cc

Total 123

Avg 6.15

6.15
20
123.00

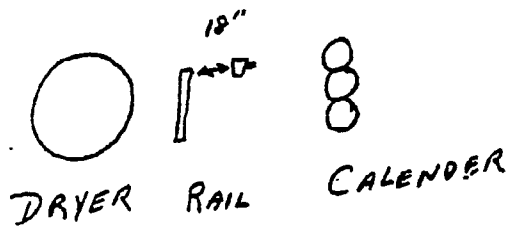
34

030 WS 62

10-24-72

$$.055 \text{ mm} \times .055 \text{ mm} = .003025$$

11-17



6' from front of dryer
18" from rail
5' from floor

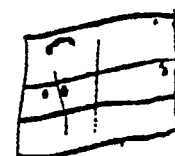
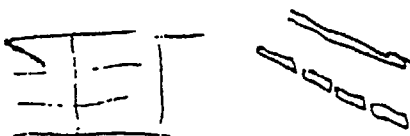
① 1-11

0.69 fibers/cc

5.0

Total: 9

480 . 45



SLURRY MIXER

#1

30% 775 60% 25

2

12-1-72

re started

12⁰⁰ Noon

run time

123.15 min.

sampled

246,300

0.55 mm x 0.35 mm

8/4 WS 62

FAN ON, OPENING COVERED



MACHINE DOWN 1/2 HR.

LOOSE GUM ARABIC

2
2
1
2
2
3
3
4
8
7
6
3
2
2
3
2
3
2
4

H. DODERER - OPERATOR

R. MANNS - SHIFT

3.67 Fibers

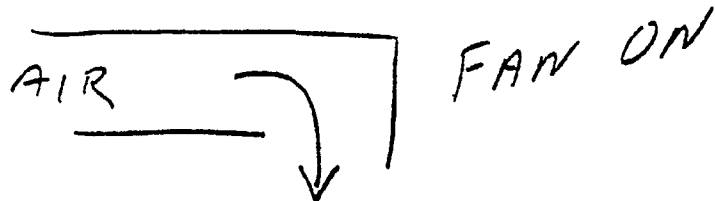
Total: 64

5.0 Fibers

Avg. 3.2

ASBESTOS FIBER ANALYSIS

Job Location SLURRY MIXER #1
 Sample Materials/Product 70% 705 Case No. 2
 Date Sampled 12-4-72 Time Finished _____
 Sampled By _____ Time Started 1 05 PM
 Date Analyzed _____ Elapsed Time 130.9 MIN
 Analyzed By _____ Vol Sampled 261.800 cc
 Filter Size .055mm X .055mm Blank _____
.003025
 Sample No. 8/4 W562



Loose Gum ARABIC

J. LISTER - OPERATOR
 L. SPENCER - SHIFT

Fibers > 5 μ

0
1
3
2
2
0
6
1
5
2
3
1
4
2
2
2
3
3
1
2

Analysis: 2.48 Fibers/cc Total: 46
 S.E.V. 5.2 Fibers/cc Avg.: 2.3

312433
 299343
 130.90

ASBESTOS FIBER ANALYSIS

Sample Location #4 Slurry room
 Specific Materials/Product 70% 50% 7ms7 2 1/min
 Date Sampled 12-6-72 Time Finished _____
 Sampled by _____ Time Started 1 25 PM
 Date Analyzed _____ Elapsed Time 118.07 min.
 Analyzed By _____ Vol Sampled 236, 140 cc
 Field Area .053 mm X .053 mm Blank _____

Sample ID WS62

Slurry mixer
F. ZIEGLER

M. BARRICKS' SHIFT

Fibers/5

3
2
1
1
3
2
0
2
2
3
2
1
0
3
4
3
0
1
2
0

Analysis 209 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 35
 Avg.: 1.95

3242.60
3124.53
118.07

SEESTOS 101 101

Location WET LAB
 Materials Product JM⁵ - 7MS7-7DS Sample No. 2
 Date Collected 12-8-72 Time Finished _____
 Collected By _____ Time Started 1:33
 Date Analyzed _____ Elapsed Time 89.63 min.
 Analyzed By _____ Vol. Sampled 179.260
 Filter Area .055 x .055 Blank _____

18 LOTS WILLIAMS DISINTEGRATOR
 2 LOTS ROTAP



4 1/2' above Floor

5
8
14
14
4
4
7
3
2
6
2
2
3
5
3
3
3
4
5
7

Analyst: 8.28 Fibers/cc
 T.L.V. 5.0 Fibers/cc

Total: 105
 Avg: 5.25

3332.35
 3242.72
 89.6

12/12/72

Machine: SLURRY MIXER

#1 MACHINE

Operator: JM's 705

Lot: 2

Date: 12-12-72

Time: 1:05 PM

Sample: 122.60 MIN

Weight: 245.200

Rate: 122.60 MIN

Temp: 245.200

Analysis: 0.55 mm x 0.55 mm

Notes: 030 WSG4 12/4

W. GREEN. SHIFT

W. FRANK

Fibers/cc

4
7
4
3
3
3
3
9
11
8
7
6
7
2
3
4
1
4
3
8

Analysis: 5.99 Fibers/cc

Total: 104

T.L.V. 5.0 Fibers/cc

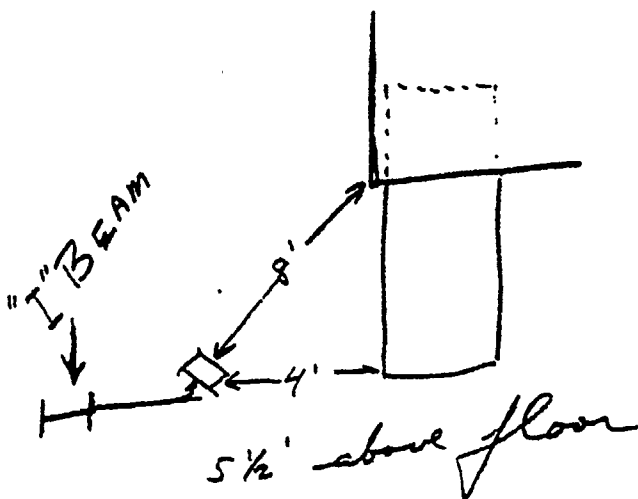
Avg: 5.2

345510
333250

122.60

BROKE Box #1 SLURRY
 70% 20%
 JM5 7D5
 Date 12-13-72
 Time Started 9:45 am
 Stopped Time 100.24
 Sampled 200,480
 .055 mm x .055 mm

030 - W564



Fibers = 5

0
0
0
0
2
0
0
1
0
1
1
0
1
0
1
0
0
0
3
0
0

analysis 0.705 Fibers/cc
 Fibers/cc

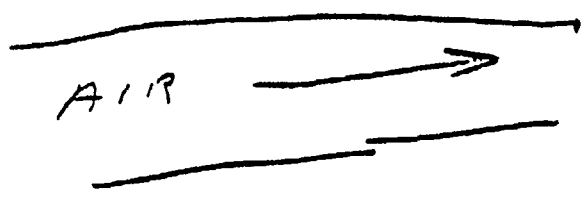
Total: 10
 Avg: .5

3555.33
 3455.09
 100.24

TEST OF SLURRY

CEMENT SLURRY MIXER #1
MATERIALS TO MIX 70% 20%
M^{#5} 70%
Time Finished _____
Time Started 9:20 AM
Elapsed Time 1:30.78
Sampled 261,560
Size .055 mm x .055 mm
032 - W 562

R. STARNER
R. MANN'S SHIFT



Fibers: 5

2
0
1
0
0
1
2
6
2
2
3
1
2
1
2
1
0
3
0
2

Analyses: 1.67 Fibers/cc
Total: 31
F.L.V. _____ Fibers/cc
Avg.: 1.55

3 686.30
3 55552
130.78

MIT

4 - adhesive
 3.7% 30%
 7MS7
 12-20-72
 0.55mm x 0.53mm
 030-WS64

C. invol.
 M. BARRICKS SHIFT

Fibers/5

1
1
2
0
1
1
1
1
1
0
3
0
0
0
0
0
0
1
0
0

3831.0
 3689.5
 141.5

analysis. 0.65 Fibers/cm
 Total: 13
 Avg. .65

Box CAR (old mill)
 Analysis JM #5
 Date 12-20
 Time finished
 Time started 2:10 PM
 Sample time 50.41 min
 Weight sampled 100.820 g
 Length 0.53 mm x 0.53 mm
 Blank

K. Brooks
 many broken bags
 BAD CAR.

Fibers: 5

3
2
4
0
0
2
2
2
0
2
2
3
1
0
0
1
4
0
1
1

Analysis: 4.90 Fibers/cc
 T.L.V. 500 Fibers/cc

Total: 35
 Avg.: 1.75

3881.5
 3831.1
 50.4

4
 707r 307
 25 7MS7
 1-4-73
 10 55 AM
 1-6-73
 259,620
 0.55 X 0.55
 0.30 - w 20%

W. GREENS SHIFT
 O. BROTHERS

NO GUM ARABIC OR P 341

Fibers cc

0
0
0
0
0
0
0
0
0
2
1
1
0
0
1
0
0
0
0

1-6-73
 62 run
 specks

Analyst: 0.33 Fibers cc Total: 6
 500 Fibers cc Avg.: 3

500
 4000

4011.65
 388.18
 12908.1

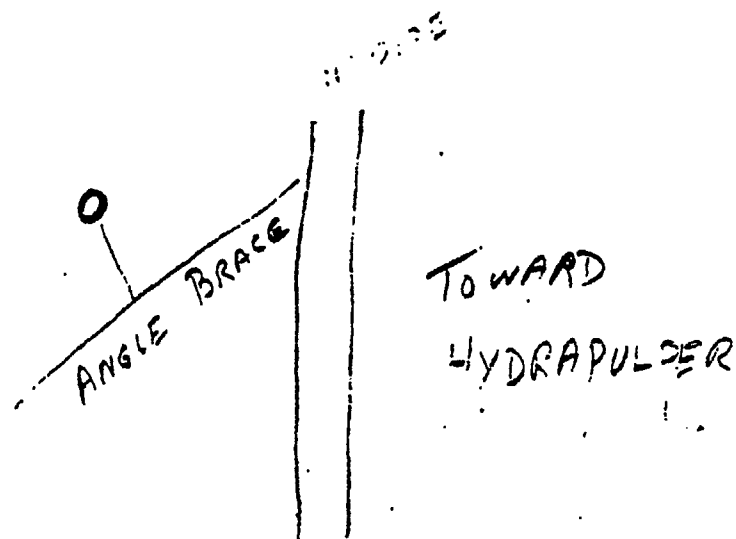
TESTING REPORT

Location HYDRAPULPER ROOM #4
 Sample Identifier/Product #5 7457 No. 2
 Date Sampled 1-6-73 Time Collected _____
 Sampled by _____ Time Started 11:10 AM
 Date Analyzed 1-6-73 Elapsed Time 161.56
 Analyzed by _____ Vol. Sampled 323.120
 Sample Size 0.55mm x 0.55mm Blank _____

Notes:

WS 64

Fibers: 5



0
0
2
0
0
0
0
2
2
3
2
2
1
2
3
2
4
1

Analysis: 6.35 Fibers/cc
 T & V 5.0 Fibers/cc

Total: 31
 Avg.: 1.55

41 73.21
 40 11.65
 161.56

TESTING FIBER ANALYSIS

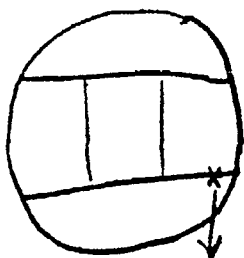
Sample Location slurry platform #4 mill
 Date of Analysis/Product 1-15-73 and date 2
 Date Entered 1-12-73 Time Finished _____
 Analyzed By _____ Time Started 1:05 PM
 Date Analyzed 1-20-73 Elapsed Time 153.65
 Analyzed By _____ Vol Sampled 307,300 cc
 Filtration Area .055" x .055" Tank _____
.003025"

Formula

WS62

Fibers: 5

4' above Floor



#1 slurry tank

0
0
1
0
1
0
2
0
0
0
0
0
2
1
0
0
0
0
1

Analysis: 0.368 Fibers, cc
 F.L.V. 5.0 Fibers, cc

Total: 8
 Avg: .4

432686
 417321
 153.65

Concentration Tests 15

ASBESTOS FIBER ANALYSIS

Sample Location WET LAB
 Specific Materials/Product MS-7MS7-7DS Sample Date 2 min
 Date Sampled 1-13-73 Time Finished _____
 Sampled By _____ Time Started 8:05 AM
 Date Analyzed 1-19-73 elapsed Time 218.30
 Analyzed By _____ Vol Sampled 436, 620 cc
 Field Area .055 x .055 Blank _____
.003025

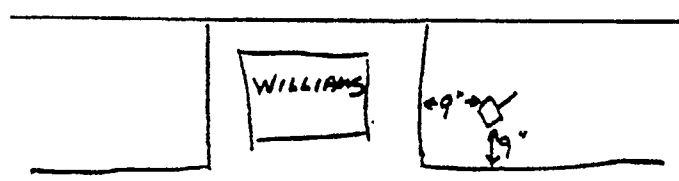
Remarks

4 - ROTAP

Fibers > 5 μ

21 - WILLIAMS DISINTEGRATOR

4'6" above floor



18
16
8
11
14
12
12
3
17
12
9
10
8
12
14
9
4
6
16
11

Analysis: 7.12 Fibers/cc
 T.L.V. 5.0 Fibers/cc

Total: 220
 Avg: 11

5.5
 89.7

41545.16
 4326.86
7.1830

WET LAB

JMS

1-13-73

1-20-73

.055 x .055

2 -

12⁰²_{PM}

231.75

463,500

4 in ROTAP

follow up of

15

spill of -about
1-gal. of asbestos
fibers by janitor

2
5
1
0
0
3
1
4
3
4
5
2
2
4
3
0
4
2
3
2

1.52 Fibers, cc

5.0

Fibers, cc

Total: 50

Avg: 2.5

4776.91

4545.16

231.75

BOX CAR (OLD MILL)
 JM # 2
 1-18-73
 8:10 AM
 1-19-73
 17.93 min
 35860
 .055" x .055"

H. BITZEL

start of Box car
door way

2
0
0
0
0
0
0
0
1
0
0
0
1
2
0
0
1
0

2.76 Fibers/cc
 5.0 fibers/cc

Total. 7
 Avg. 0.35

4794.84
 4776.91

 17.93

ASBESTOS ANALYTICAL

Sample Location Box Car #4
 Specific Materials product JM-5 Pump Rate 2 l/min
 Serial Number 1-23-73 Time Finished _____
 Analyzed By _____ Time Started 1:08 PM
 Date Analyzed 1-23-73 Elapsed Time 17.53 min
 Filtered By _____ Vol Sampled 35.06 cc
 Filter Area 0.55 mm x 0.55 mm Blank _____
003025

NOTE:

Fibers/5 μ

N. GESSELL

Door way of car.

0
0
1
0
2
0
1
0
1
0
0
0
0
0
2
0
2
0
1
0
1

Analysis: 4.43 Fibers/cc
 CLV 5.0 Fibers/cc

Total: 11
 Avg.: 0.55

41827.08
 4809.55
17.53

SEBESTOS FIBER ANALYSIS

Sample Location #1 Flurry inner
 Ident. Materials/Product M⁵ 7D5 Sample Size 2 mm
 Date Sampled 1-25-73 Time Finished _____
 Analyzed By _____ Time Started 8:07 AM
 Date Analyzed 1-25-73 Elapsed Time 419.35
 Analyzed By _____ Vol. Sampled 838,700 cc
 Field Area _____ Blank _____

Count 225 1154 84

Bagged from fabric

Fibers 5

1
1
2
1
2
1
3
2
2
7
6
6
2
3
2
2
3
1
0
2

W. FRANK

Analysis: 0.81 Fibers/cc
 S.L.V. 5.0 Fibers/cc

Total: 48
 Avg.: 2.4

5246.43
 4827.08
419.35

SBESTOS TEST ANALYSIS

Sample Location #4 DRY END
 Sample Material/Product 030 WSG4 Pump Rate 2 l/min
 Date Sampled 1-25-73 Time finished _____
 Sampled By _____ Time started 9:10 AM
 Date Analyzed 3-13-73 Elapsed Time 349.70 min
 Analyzed By _____ Vol Sampled 699400 cc
 Field Area _____ Blank _____

Time of Day

W. GREEN S SHIFT

Fibers/cc

COKE
MACHINE

1-3 1/2' →

4 1/2' above floor

0	1	0	0	0
0	0	0	0	0
1	0	1	0	0
1	1	0	0	0
0	0	0	0	0
1	0	0	0	0
4	0	0	0	0
2	0	1	0	1
1	0	0	2	0
3	0	0	3	0
2	0	0	0	1
0	1	3	1	0
1	0	0	0	0
1	2	0	1	0
0	3	1	0	1
0	1	1	0	0
0	0	0	0	0
0	0	0	0	0
1	1	0	0	0
1	0	0	0	1
19	10	7	7	4

Analysis: 0.1899 Fibers/cc

T.C.V. _____ Fibers/cc

Total: 47

Avg.: .47

5596.13

5246.43

349.70

ASBESTOS ANALYSIS

Sample Location #1 dry end.
 Specific Impurities, Product 035 W562 Air Flow 2 l/min.
 Date Sampled 1-26-73 Time Finished _____
 Sampled By _____ Time Started 8:20 AM
 Date Analyzed _____ Elapsed Time 353.92 min.
 Analyzed By _____ Vol. Sampled 711,840 cc
 Sample Area _____

Job No.

W. GREENS SHIFT

Fibers/cc

SOUTH INSP.
TABLE

←5'→

5' above floor.

1	0	2	2	0
1	0	1	0	1
0	0	0	0	0
1	0	0	0	0
3	1	1	0	1
0	1	0	3	2
0	0	4	0	1
0	3	0	0	3
1	0	0	0	0
1	2	1	4	2
0	0	0	1	0
1	2	1	0	0
2	0	1	0	0
1	0	0	2	0
0	0	1	0	0
1	0	1	0	0
0	0	2	0	0
0	0	1	0	1
1	2	0	0	0
2	2	0	0	0
16	13	16	12	11

Analyzer: 0.274 Fibers/cc

F.L.V. _____ Fibers/cc

Total: 69

Avg.: .69

5950.05
 5596.13
 353.92

ASBESTOS FIBER ANALYSIS

Sample Location BRIKE BEATER
 Sample Materials/Product JM #5 Pump Rate _____ l/min
 Date Sampled 1-30-73 Time finished _____
 Sampled By _____ Time Started 2:30 pm
 Date Analyzed _____ Elapsed Time 3.09 MIN
 Analyzed By _____ Vol Sampled _____ cc
 Field Area _____ Blank _____

Remarks:

1 Box of asbestos bags

Fibers $\geq 5 \mu$

D. ROBBINS

R. MANN'S SHIFT

1	3	0	0	1
0	1	2	1	0
0	0	0	0	2
1	0	5	2	0
0	0	3	0	0
0	0	0	0	0
2	1	0	0	0
0	1	19	0	0
0	0	0	0	2
0	0	1	0	0
3	0	0	1	0
0	2	0	1	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	2
0	0	0	0	1
1	0	0	4	2
0	0	2	0	1
2	1	7	0	0
10	9	39	10	19

Analysis: 39.79 Fibers/cc

T.A.V. _____ Fibers/cc

Total: 87Avg.: .87

59 53.14
 59 50.05
 3.09

ASBESTOS FIBER ANALYSIS

Sample Location #3 machine Dryland
 Specific Materials/Product _____ Pump Rate _____ l/min
 Sample Number 2-22-73 Time Finished _____
 Sampled By _____ Time Started 9⁵⁰ AM - 4⁵⁰ PM
 Date Analyzed _____ Elapsed Time 344.96
 Analyzed By _____ Vol Sampled 689,920 cc
 Field Area _____ Blank _____

Remarks:

DRYER CAL
 ○ 1 ○

10'
 ↑
 □

4 1/2" from floor

Fibers > 5 μ

1	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
2	1	1	1	0
0	0	0	0	1
1	0	0	0	0
1	0	0	1	0
1	0	0	0	0
0	0	0	1	0
0	0	0	0	2
0	0	0	0	0
0	0	0	0	0
1	0	1	0	0
0	0	0	0	1
0	0	0	0	1
0	0	1	0	0
0	0	0	0	0
0	0	0	0	1

7 1 4 3 6

Analysis: .0086 Fibers/cc
 F.V. _____ Fibers/cc

Total: 21
 Avg.: .21

6301,81
 595685
 344.96

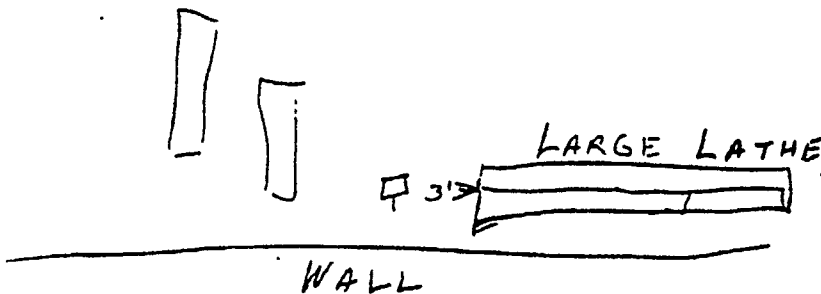
ASBESTOS FIBER ANALYSIS

Sample Location shop
 Specific Materials/Product _____ Pump Rate _____ /min
 Date Sampled 2-23-73 Time Finished _____
 Sampled by _____ Time Started 8:40 AM
 Time Analyzed 3-16-73 Elapsed Time 389.19
 Analyzed by _____ Vol Sampled 778,380 cc
 Field Area _____ Blank _____

Notes:

Fibers ≥ 5 μ

SAW

2	0	0	0	0
0	0	0	0	1
0	1	0	0	1
0	0	0	0	0
1	0	1	0	0
0	0	0	1	0
0	0	0	0	0
0	1	0	0	0
0	1	0	1	0
0	2	0	1	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
1	0	0	0	0
3	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
9	5	1	3	4

Analysis: 0.0799 Fibers/cc
 T.E.V. _____ Fibers/cc

Total: 22
 Avg.: .22

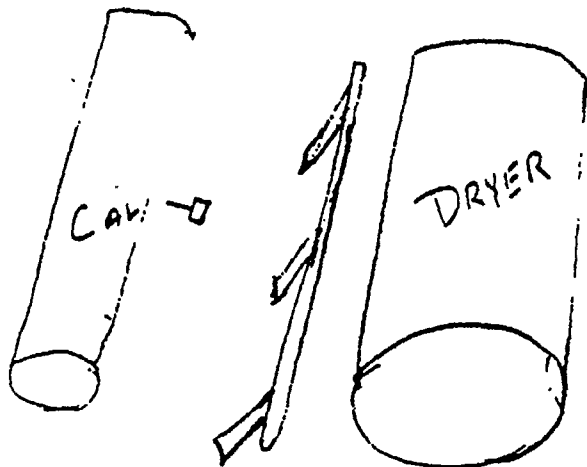
669283
 630364

 389.19

ASBESTOS FIBER ANALYSIS

Sample Location #4 cal
 Specific Materials/Product 035 WS62 and Date 2
 Date Sampled ~~2-26-73~~ 2-26-73 Time Collected _____
 Sampled By _____ Time started 9²⁵ AM
 Date Analyzed _____ Elapsed Time 349.40
 Analyzed By _____ Vol Sampled 698,820 cc
 Field Area .055 x .055 Blank _____
.003025
 Remarks _____

4 1/2' from floor



Fibers > 5 μ

0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
1	0	1	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	1
1	0	0	0	0
0	0	2	2	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	1	0	0
1	0	0	0	0
1	0	0	0	0
5	1	5	0	2

Analysis: .0525 Fibers/cc
 T L V _____ Fibers/cc

Total: 13
 Avg.: .13

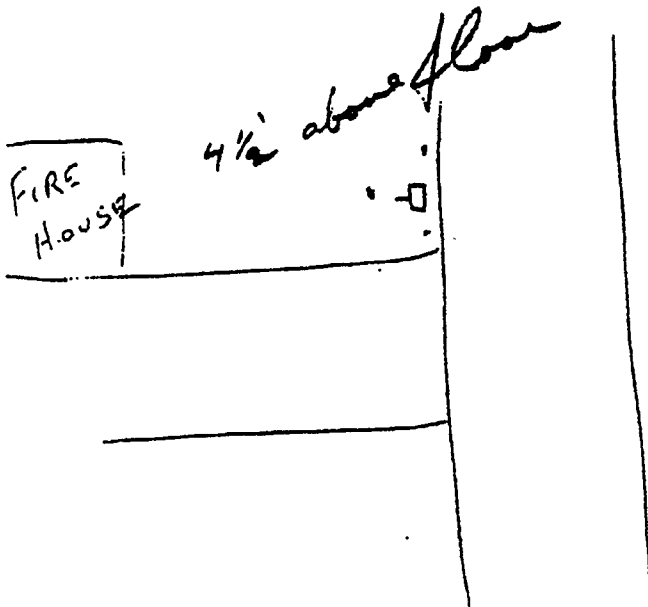
704438
 669498
349.40
~~669498~~

ASBESTOS FIBER ANALYSIS

Sample Location #1 WAREHOUSE
 Specific Materials/Product _____ Pump Rate _____ l/min
 Sample No 1-27-73 Time Finished 9:20 AM
 Sampled by _____ Time Started _____
 Date Analyzed _____ Elapsed Time 318.52 min
 Analyzed By _____ Vol Sampled 637,040 cc
 Field Area _____ Blank _____

Sample No: 1 CAR LOAD JMS UNLOADED

Fibers > 5 μ



1	1	1		
3	1	4		
2	2	1		
2	4	1		
4	4	1		
5	3	1		
1	0	0		
2	5	2		
0	0	2		
0	1	0		
2	3	1		
2	0	0		
2	0	0		
0	0	2		
4	0	3		
3	2	3		
1	4	0		
4	2	2		
2	3	0		
1	0	0		

41 35 24

Analysis: 7365 Fibers/cc
 T.V. _____ Fibers/cc

Total: 100
 Avg.: 1.66

7363.64
 7045.12
318.5

ASBESTOS FIBER ANALYSIS

Sample Location #1 Slurry
 Spec. for Materials/Product 55 Pump Rate _____ l/min
 Date Sampled 3-1-73 Time Finished _____
 Sampled By _____ Time Started 8:55 AM
 Time Analyzed _____ Elapsed Time 356.61 min.
 Analyzed By _____ Vol. Sampled 713,220 cc
 Field Area _____ Blank _____

Remarks:

235 252

Fibers > 5 μ

Exp. 10 30

W. GREEN SHIFT
 D. LEPPA JR.

9	1		
2	0		
2	0		
2	6		
4	2		
4	0		
5	1		
4	4		
3	5		
5	2		
3	1		
1	2		
2	0		
2	4		
3	2		
0	0		
5	2		
5	2		
1	0		
2	5		
64	41		

Analysis: 1.04 Fibers/cc
 TLV _____ Fibers/cc

Total: 105
 Avg.: 2.625

77 21.3
 73 64.7
556.6

#3

ASBESTOS FIBER ANALYSIS

Sample Location Slurry Mixer #1
 Specific Materials/Product JM #5 Pump Rate _____ l/min
 Date Sampled 3-12-73 Time Finished _____
 Sampled By _____ Time Started 8:58 AM
 Date Analyzed _____ Elapsed Time 357.02
 Analyzed by _____ Vol Sampled 715, 240 c.c.
 Field Area _____ Blank _____

Level: 030 WS 55

R. STARNER

Fibers/5

FAN ON

Loose gum Arabic

3	7		
3	2		
2	4		
3	2		
4	1		
5	5		
1	3		
6	3		
2	1		
3	2		
4	0		
0	1		
4	5		
2	0		
2	3		
0	0		
4	0		
4	0		
3	3		
7	4		

63 46

Analysis. 1,0768 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 109
 Avg.: 2.725

1 - 16
 4 - 22
 3 - 16 + 22

DEC 22-72

8079.78
7722.16
 357.62

32

ASBESTOS FIBER ANALYSIS

Sample Location #4 Hydropulper
Specific Materials/Product 2ms? JH5 Pump Rate 2 l/min
Date Sampled 3-16-73 Time Finished _____
Sampled By _____ Time Started 8:45 AM
Date Analyzed 3-21-73 Elapsed Time 365.52
Analyzed By _____ Vol. Sampled 731.040 cc
Field Area .055 x .055 Blank _____

Remarks:

C. ARNOLD

Fibers > 5 μ

2	1	2	2	1
2	0	1	1	3
4	0	2	1	1
1	0	4	1	1
3	1	3	1	1
3	3	2	3	2
2	2	0	0	2
1	1	0	0	2
1	0	2	0	0
1	0	1	0	2
1	0	1	0	3
1	0	2	0	1
3	0	1	0	2
2	0	1	0	2
2	0	4	2	0
1	0	1	3	0
1	0	1	0	0
1	1	0	0	0
2	1	0	0	0
1	1	2	0	2

37 11 3.0 14 25

Conc. .4523 Fibers/cc
Avg _____ Fibers/cc

Total: 117
Avg.: 1.17

8831.13
8465.61
365.52

ASBESTOS FIBER ANALYSIS

Sample Location #4
 Specific Materials, Product JM⁵ 7MS7 Pump Rate _____ l/min
 Date Sampled 3-19-73 Time Finished _____
 Sampled By _____ Time Started 9²⁰ AM
 Date Analyzed 3-21-73 Elapsed Time 325.17 min
 Analyzed By _____ Vol. Sampled 650,380 cc
 Filter Area _____ Blank _____

and/or:

C. R A V E R

Fibers > 5 μ

5	2	0	0
1	2	0	0
4	0	2	0
2	0	1	0
1	0	7	0
2	0	1	0
2	0	3	0
3	0	4	0
1	0	2	0
1	0	2	0
6	3	2	0
1	2	2	0
2	1	3	3
4	1	2	2
2	1	2	1
1	1	1	1
1	2	0	2
1	0	0	1
1	0	0	0
2	0	0	0

44 15 36 10

Catalyst: .5692 Fibers/cc
 F.L.V. 5.0 Fibers/cc

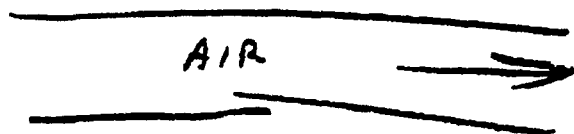
Total: 105
 Avg.: 1.31

9157.27
 8832.08
325.19

ASBESTOS FIBER ANALYSIS

Sample Location #1 Slurry
 Specific Materials/Product _____ Pump Rate 2 l/min
 Dated Sampled 3-21-73 Time Finished _____
 Sampled By _____ Time Started 8:25 AM
 Date Analyzed 4-3-73 Elapsed Time 383.00
 Analyzed By _____ Vol Sampled 766,000 cc
 Field Area .055 x .055 Blank _____

no. D. LEED
bagged gum Arabic



Fibers > 5 μ

11			
5			
7			
6			
3			
7			
5			
3			
6			
6			
7			
6			
8			
8			
10			
7			
5			
6			
9			
5			

128

Analyzed: 2,361 Fibers/cc
 L.V. _____ Fibers/cc

Total: 128
 Avg.: 6.4

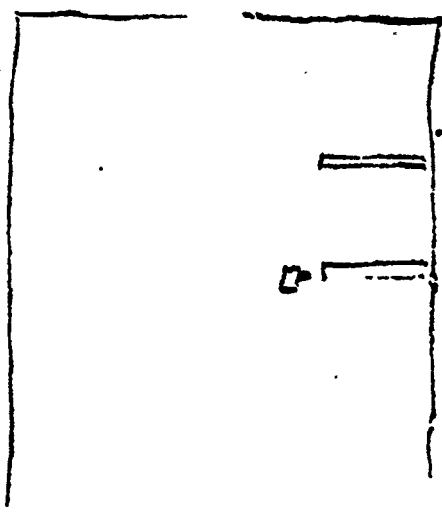
9541.59
9158.59
383.00

ASBESTOS FIBER ANALYSIS

Sample Location BLDG #59
Specific Materials/Product _____ Pump Rate 2 l/min
Batch Sampled 3-22-73 Time Finished _____
Sampled By _____ Time Started 9:10 AM
Date Analyzed 4-3-73 Elapsed Time 343.49
Analyzed By _____ Vol Sampled _____ c.c.
Field Area _____ Blank _____

Comments:

*moved in 10 rolls
of slates*



4 1/2' off floor

Fibers > 5

0	0	0	3	1
0	0	0	0	0
0	2	1	0	0
0	0	0	0	0
0	0	0	0	2
0	0	0	0	0
0	0	0	0	0
0	3	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	2	0	1
3	3	0	2	0
0	0	0	0	0
0	0	0	0	2
0	2	0	0	0
1	2	1	0	0
0	1	0	0	0
0	1	0	0	0
0	4	0	0	2
0	1	0	1	0
4	22	5	7	10

Analysis: .11975 Fibers/cc
T.L.V. 5.0 Fibers/cc

Total: 48
Avg.: .48

*9886.
9542.
343.*

Rossana 2000

ASBESTOS FIBER ANALYSIS

Sample Location #1 Slurry
 Specific Materials/Product WS640 Pump Rate 2 l/min
 Date Sampled 3-27-73 Time Finished _____
 Sampled By _____ Time Started 12:34
 Date Analyzed 4-3-73 Elapsed Time 132.19 min
 Analyzed By _____ Vol Sampled 264,380 cc
 Filter Area 0.55mm x 0.55mm Blank _____

Notes:

Wash 6 lb every second batch
W. FRANK
 Fibers > 5

FAN ON

2	0	3		
3	3	2		
7	1	2		
3	1	1		
3	3	1		
4	1	6		
4	1	1		
2	3	2		
1	3	3		
1	3	5		
3	0			
2	3			
2	3			
3	2			
1	3			
6	3			
1	1			
0	2			
1	3			
3	2			

53 43 26

Analysis: 2.6 Fibers/cc
 T.L.C. 5.0 Fibers/cc

Total: 122
 Avg.: 2.44

10019.72
 9887.53
132.19

ASBESTOS FIBER ANALYSIS

Sample Location #4 Hydrapulper
 Specimen Materials/Product Jm#5 - 7MS7 Pump Rate 2 l/min.
 Date Sampled 3-28-73 Time Finished _____
 Sampled By _____ Time Started 8:40 AM
 Date Analyzed _____ Elapsed Time 289.50 min.
 Analyzed By _____ Vol. Sampled 579,000 c
 Test Area _____ Blank _____

Technician

E. HENRY

Fibers = 5

1	0	1	0	0
2	0	1	0	0
1	0	1	0	0
1	0	1	0	0
1	0	1	0	0
1	0	1	0	0
1	0	1	2	0
0	0	2	4	1
0	0	1	1	2
0	0	2	1	1
0	0	0	1	3
0	0	0	1	0
0	0	0	2	0
0	0	0	1	0
2	0	0	0	0
1	0	0	0	0
1	0	0	0	0
2	1	0	0	0
2	1	0	0	0
1	2	0	0	0
18	0	12	14	9

Analysis: 0.264 Fibers/cc
 Total: _____ Fibers/cc

Total: 54
 Avg.: .54

031 0.15
 0020.65
 289.50

ASBESTOS FIBER ANALYSIS

Sample Location #4
 Specific Materials/Product JM⁴⁵ - 7MS7 Pump Rate 2 l/min
 Date Sampled 3-30-73 Time Finished _____
 Sampled By _____ Time Started 9 ³⁰ AM
 Date Analyzed _____ Elapsed Time 339.08 min
 Analyzed By _____ Vol. Sampled 678, 160 cc
 Field Area _____ Blank _____

Comments:

C. Brothers

Where: 0

1	1	0	2
2	1	2	1
0	0	2	0
1	1	0	0
2	3	0	0
2	1	1	2
2	3	0	1
0	1	2	0
0	2	1	2
2	2	2	1
4	1	0	1
3	2	0	2
1	0	1	1
3	2	1	1
2	2	0	1
2	2	1	1
0	3	1	2
0	0	1	0
0	1	1	2
3	2	0	2

30 31 12 42

0.521

Total: 100

Avg: 1.25

0 65020
 0 31112

 339.08

SH-701

Slurry mixer #1

Weight 705

4-3-73

9⁰⁵

342.69

685,380

Blank

030 WS62

H. DODERER

Bagged gum Arabic

4	2		
4	5		
3	4		
3	4		
4	2		
5	2		
3	3		
9	4		
5	6		
4	5		
5	2		
3	1		
4	1		
0	1		
4	4		
6	2		
5	4		
1	4		
2	3		

77 61

Analysis: 1.423 Fibers/cc

V _____ Fibers/cc

Total: 138

Avg: 3.45

099326

065057

342.69

No. 4 HYDRAPULPER
 Date 4-14-73 WS 64 2
 Time started 9⁰⁰ AM
 Time ended 3:18.84
 Total sampled 637 680
 Total
 Total

Notes

*Loose gum matic
2 lb. each load.*

F. ZIEGLER

Fiber 5

2	1	0	1	1
2	1	0	0	2
1	1	0	0	1
2	1	0	0	1
3	1	0	0	0
1	1	0	4	0
2	2	0	1	0
1	2	0	4	0
2	1	0	1	0
1	4	0	2	0
1	1	0	1	0
1	1	0	1	0
3	1	0	2	0
3	1	0	3	0
2	2	0	2	2
3	1	0	1	1
1	1	0	1	0
2	0	0	1	0
2	0	0	3	1
1	0	0	1	3

36 23 29 13

Analysis 447 Fibers/cc

F. V Fibers/cc

Total: 101

Avg: 1.01

131269
 099385
318.84

41
42

Location WET LAB
 Sample ID/Product 15 - 7D-5 Date 2
 Date Collected 4-22-73 Time Collected _____
 Sampled by _____ Time Started 12⁴⁵ PM
 Test Method/Code 5-7-73 Elapsed Time 191.09 min.
 Sample Size _____ Vol. Sampled 382,180
 Air Flow _____ Blank _____

12 ⁴⁵/_{PM} to 1 ³⁰/_{PM}

12 samples in Williams
 Disintegrator
 2 samples in Rotap

total of 0 in Rotap

new funnel top
 on Williams Disintegrator

Fiber # 5

1	4		
1	3		
1	1		
3	1		
0	3		
4	0		
4	3		
4	0		
6	2		
3	3		
5	3		
2	3		
1	6		
2	0		
1	3		
2	2		
3	1		
5	2		
4	4		
1	6		

53 50

Analysis: 1.90 Fibers/cc
 T L.V. _____ Fibers/cc

Total: 103
 Avg.: 2.575

1503.89
 1312.80
 191.09

REPORT FORM

Job # #1 Slurry mixer
 Job No. Inter-15/1600 or JM#5. 0725 op date 2
 Date 12-13-73 Time finished _____
 Sampled by _____ Time started 8 35 AM
 Job No. 200 Closed time 335.35 MIN.
 Sampled by _____ Vol. Sampled 670, 700 cc
 Filter Area .055 mm x .055 mm Blank _____

Time to

WS62

H. DODERER

Fibers 5

R. MANN SHIFT

2 MEN, 1 HR. ON - 1 HR. OFF

WORKED 3 HRS.

USED C.M.C.

NO FRESH AIR IN.

OUT VENT FAN "ON"

5	3		
4	0		
2	1		
4	7		
4	1		
2	4		
2	2	-	
3	2		
2	3		
2	8		
3	2		
1	2		
1	1		
3	0		
0	4		
2	2		
2	1		
3	1		
4	2		
1	0		

59 48

Analysis. 1.07 Fibers/cc

Total: 102

FLY _____ Fibers/cc

Avg.: 2.55

ASBESTOS TEST RESULTS

Job # 1 Slurry mixer
 Material JM #5-725 2
 Date 12-14-73 Time Finished _____
 Time Started 9:30 AM
 Elapsed Time 325.16
 Vol Sampled 750, 320
 Filter Area .055 mm x .055 mm Blank _____

^{WS 62}
 B. RICKETS

Fibers = 6

2. MANN SHIFT

2 MEN, 1 HR. ON - 1 HR. OFF

USED CMC

FRESH AIR "IN" FAN ON

11:30 AM TO 12:30 PM RICKETS WORK

1:30 PM TO 2:30 PM RICKETS WORK

OUT VENT FAN "ON"

5	2		
1	2		
5	4		
0	6		
1	2		
3	0		
3	5		
4	2		
3	2		
3	3		
4	3		
2	3		
3	1		
7	3		
2	4		
2	2		
2	3		
1	1		
4	4		
3	3		
53	55		

Analysis: 1.02 Fibers/cc

Total: 108

FLV _____ Fibers/cc

Avg.: 2.7

OFFICIAL USE ONLY

Sample Location # 4 4-15-15-15-15-15
 Product MS7 MS7 MS7
 Date Sampled 12-18-73 Time Sampled _____
 Date Analyzed _____ Time Started 9:30 AM
 Elapsed Time 254.75 min.
 Vol. Sampled 509.500 cc
 Fiber Size 0.55 mm 25.5/10M

WS 64
 USED C.M.C.

F. ZIEGLER

I. SPENCERS SHIFT

0	1	0		
2	5	0		
2	1	5		
2	0	1		
1	1	1		
1	0	1		
2	2	3		
0	1	2		
2	2	5		
2	2	3		
1	1	4		
3	2	3		
1	2	3		
2	2	2		
0	0	2		
5	3	1		
1	5	3		
0	2	1		
3	4	1		
3	2	0		
34 38 11				

Analysis: 1.54 Fibers/cc

1. V _____ Fibers/cc

Total: 113

Avg: 1.88

ASBESTOS TEST

Sample # 4 Hydrapulper
 Specimen # JN#5 - 7MS7 Date 2
 Date Sampled 12-19-73 Time Finished _____
 Sampled by _____ Time Started 9:10 AM
 Date Analyzed _____ Elapsed Time 256.12 MIN
 Analyzed by _____ Vol Sampled 512, ±40 cc
 Plate Area 0.55 mm x 0.55 mm Blank _____

Notes MS 64

USED C.M.C.

C. RAY

I. SPENCERS SHIFT

Fibers ≥ 5 μ

2	5			
3	0			
0	0			
3	1			
5	12			
4	5			
5	3			
2	1			
1	1			
0	1			
3	5			
4	2			
3	2			
5	10			
1	3			
1	3			
5	1			
0	1			
5	3			
1	2			

59 65

Analysis: 1.7 Fibers/cc
 F.C.V. _____ Fibers/cc

Total: 124
 Avg.: 3.1

#47

SPECIAL FIELD ANALYSIS

Date Location 1-16-74
 Subject Materials, Product 1 Pump Rate 1.000
 Date Sampled 1-9-74 Time Finished
 Sampled by Time Started 8:45 AM
 Date Analyzed 1-16-74 Elapsed Time 352.65 min
 Analyzed by Vol. Sampled 705,300 cc
 Field Area Blank

Time 15:15:02

W. FERGUSON
 air out - on
 air in - off
 1 hr. on - 1 hr. off
 3 hrs slurry.
 40055 cmc

Fibers 5

4	3			
4	2			
3	4			
1	2			
2	2			
3	3			
3	2			
1	3			
8	3			
2	3			
3	4			
1	2			
2	2			
2	1			
3	2			
6	0			
10	1			
3	1			
4	2			
3	3			
60	40			

Analysis: 1.06 Fibers/ccF.L.V. Fibers/ccTotal: 106Avg.: 2.65

345089
 309824
 352.65

SECRET - COPY MAIL

.. 22 2-34

air out ON
in OFF

فبر ۵ ۱۹۵۳

7	0			
3	2			
2	0			
5	3			
6	3			
8	3			
7	1			
4	3			
8	6			
2	7			
3				
8				
2				
7				
6				
4				
7				
1				
4				
3				

55

Avg. : 4.03

— no oct 10
— 10 10 10
— 10 10 10
— 10 10 10

$$\begin{array}{r} 380064 \\ 345089 \\ \hline 34995 \end{array}$$

Page 42 12564 211

out in "on"
in an ۱۲/۲

S. GRAYBEAL

1 hr on 1 hr off
about 3 hrs worked

fibers 25

3	2		
1	6		
1	4		
3	2		
0	2		
3	12		
1	4		
0	3		
2	0		
1	2		
4	2		
3	0		
4	2		
4	1		
4	3		
5	2		
2	0		
2	2		
2	5		
4	2		

Total: 106
Avg.: 2.65

Handwritten: 600

10 11 12 1 2

7 10 11 12 1 2

$$\begin{array}{r} 406537 \\ - 80064 \\ \hline 26473 \end{array}$$

ASBESTOS FIBER ANALYSIS

Sample Location #1 Slurry
 Specific Materials/Product _____ Pump Rate 2 l/min
 Date Sampled 1-16-74 Time Finished _____
 Sampled By _____ Time Started 10¹⁰ AM
 Date Analyzed 1-23-74 elapsed Time 288.56
 Analyzed By _____ Vol Sampled 577, 120 c
 Field Area _____ Blank _____

Comments WS 62
out air on
in air off
W. FRANK
1 hr. on 1 hr. off

Fibers > 5

6			
4			
5			
8			
6			
2			
3			
6			
4			
5			
4			
2			
4			
1			
8			
5			
5			
3			
1			
4			

89

VERY LARGE PARTICLES
like these asbestos fibers. related
bundles, or other large particles

Analysis 2.3 Fibers/cc
 F.L.V. _____ Fibers/cc

Total: 89
 Avg.: 4.45

4353.93
 4065.37
288.56

ASBESTOS FIBER ANALYSIS

Sample Location #1 Slurry
 Specific Materials/Product _____ Pump Rate _____ min
 Date Sampled 1-24-74 Time Finished _____
 Analyzed By _____ Time Started 9:25 AM
 Date Analyzed 1-30-74 Elapsed Time 336.23 min
 Analyzed By _____ Vol Sampled 672, 460 cc
 Field Area _____ Blank _____

Remarks:

R. STARNER.

OUT FAN "ON"
IN FAN "OFF"

LOOSE CMC
about 3 hrs.

Fibers > 5 μ

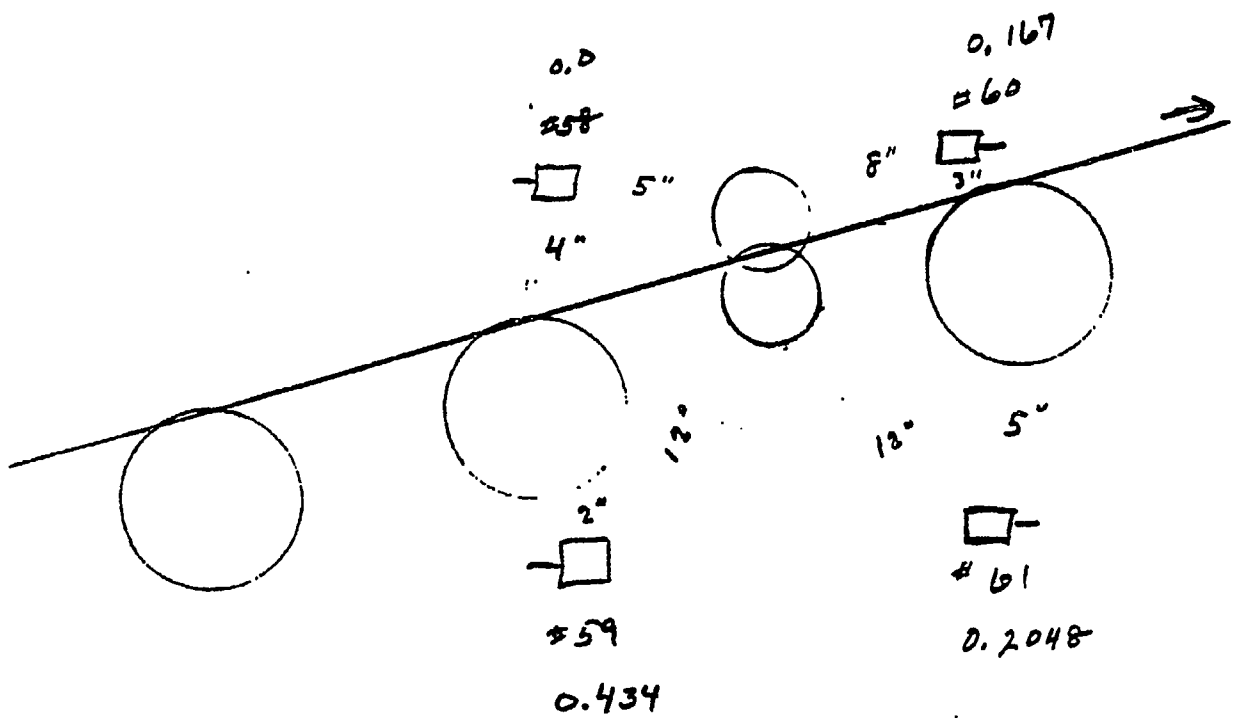
0	1	2	2	0
0	1	2	2	4
1	1	2	1	0
0	2	1	7	2
2	0	1	2	2
2	0	1	2	1
0	3	1	0	4
1	1	2	2	0
2	0	0	1	1
2	1	1	1	3
1	1	0	1	2
0	3	2	3	4
0	2	1	1	2
1	0	2	4	2
2	0	0	3	1
2	0	2	1	1
1	1	0	2	1
1	5	0	2	2
1	0	0	0	0
2	2	0	0	3

Analysis: 0.59 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 140
 Avg.: 1.4

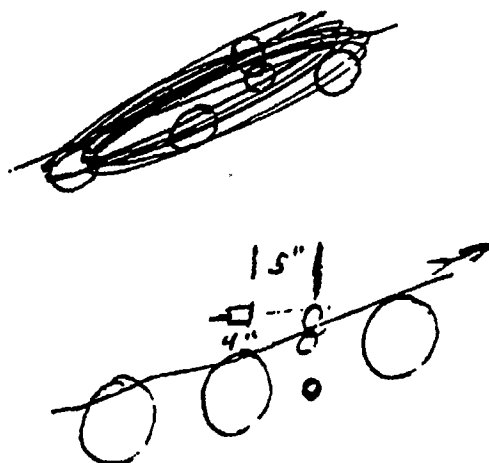
4690.16
 4353.93

336.23



#1 reminders (slitters)
 WS 55
 2-27-74
 2
 10 $\frac{35}{\text{min}}$
 3-8-74
 7.86 min
 15,720

Fibers - 5

[illegible]

Total: 0
Avg :

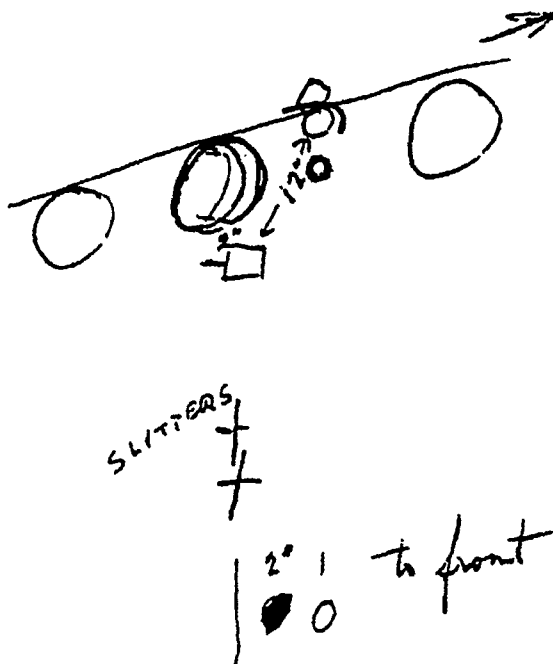
$$\begin{array}{r} 5593.3 \\ 5585.52 \\ \hline 7.86 \end{array}$$

SSS-1 (10-11-74)

Order # 1 rewinder (slitters)
 Product Name, Part No. WS 55 Run No. 2
 Date of Order 2-27-74 Date Finished _____
 Time of Day _____ Time Started 11:12 AM
 Date of Sample 3-2-74 Elapsed Time 9.76 min
 Machine No. _____ Vol. Sampled 19,520 c
 Plant _____ Blank _____

and in

Fibers/CC



1	0:0	0	0
1	0:0	0	0
1	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	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	0:0	0	0
0	0:0	0	0
0	0:0	0	0

Analysis 0.434 Fibers/cc

Total: 3

Vol. 19,520 Fibers/cc

Avg.: .03

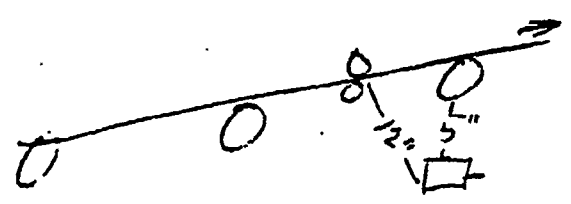
5603.12
 5593.36
 9.76

REPORT OF ANALYSIS

Location #1 - resins slitters
 Material/Product WS 055 2
 Sample 2-27-74 Time Finished _____
 Prepared by _____ Time Started 2:20 pm
 Date Analyzed 3-5-74 Measured Time 6.9 min
 Analyzed by _____ No. Sampled 13,800
 In Area _____ Blank _____

Notes:

Fibers/5



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
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
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

Analysis 0.2048 Fibers/cc
 L.V. _____ Fibers/cc

Total: 1
 Avg: .01

5618.46
 5611.56
 6.90

(slitter)

17562

2

2-28-74

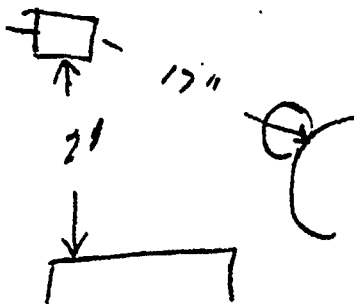
10 $\frac{50}{\text{Aug}}$

3. 2.74

6.54 min

13,080.

old slitter.

[illegible]

1.51

7

.07

$$\begin{array}{r} 5625.00 \\ 5618.46 \\ \hline 6.54 \end{array}$$

6.

42

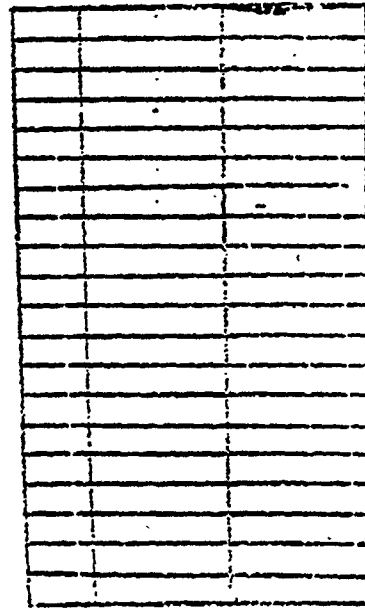
1. $\frac{32}{\text{p.m}}$

11.17 min

22,340

12 Jan.

• • •



• • • • •

•

$$\begin{array}{r} 5654.22 \\ - 5643.05 \\ \hline 11.17 \end{array}$$

8-21-74

8-26-74

2

Ice carrier 2 $\frac{0}{pm}$

Loaded time 21.16

Vol. Sample 42,320

Blank

Algebra 2

clean machine
sweep Box car
-main brush and
side brush

1	0	1	3	0
0	0	0	0	0
0	3	1	1	0
0	0	0	0	0
0	0	0	0	0
0	1	1	0	0
0	0	0	1	1
0	0	0	0	0
1	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	1	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	1	0	1
0	0	0	0	0
1	0	0	0	0
4	5	4	7	3

Analysis 1.54 Fibers/cc

Fibers/cc

Total 23

Evg. 23

5686.54
5665.38
21.16

$$7223.00 \text{ at } (11:30 \text{ pm})$$

$$\frac{22}{45}$$

56:25

56.416

$$\begin{array}{r} 7223.00 \\ 56.42 \\ \hline 7279.42 \end{array}$$

$$\begin{array}{r} 7273.05 \\ 7223.00 \\ \hline 50.05 \end{array}$$

$$\textcircled{57.006}$$

$$\frac{50.05}{56.42} = .8871$$

bldg #60 unloading asbestos

Date 11-24-75 Time finished 2
 Time started 1:30 PM
 Elapsed Time 48.32 min
 Vol. Sampled 96640
 Blank

Jon. Testerman
lift truck operator
DWC 582303
same time as #86

Fibers/cc

0	0	0	0	0
0	0	0	0	0
0	0	0	2	0
0	0	0	0	0
0	1	0	0	0
0	1	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	0	0	0
0	1	0	0	0
0	1	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

5 1

Analysis: 0.2 Fibers/cc
 T L V Fibers/cc

Total: 7
 Avg: 0.07

#20
95%
343334
338744

4590
HP3 removed

#85

#8:

#1 side unloading asbestos #5

JM #5

2

11-20-75

10¹⁵ AM

12-6-75

79.34 min

158,680

CN 592332

damage bags in car
slight breezeR. Jones
same time as #84

1	0	1	7	0
2	0	0	0	0
0	6	1	0	0
1	0	0	0	0
0	1	0	0	0
1	0	0	0	0
0	1	0	0	0
0	2	0	3	0
0	0	0	0	1
0	0	0	0	0
0	2	0	1	0
0	0	0	0	0
0	0	0	0	0
0	3	1	0	0
2	3	0	0	5
2	2	0	2	0
1	0	0	0	0
0	0	0	1	0
0	1	0	1	0
0	0	0	2	0
10	21	3	11	6

volume 0.91 fibers/sec

Total 51

fibers/sec

Avg. 0.51

P. 5.00

33 87.44

33 12.07

75.37

Pump 20 95%

79.34 minutes

REPORT OF ANALYSIS

#60 Bldg. Unloading asbestos
 Date: 11-15-75
 Time Finished: 8:30 AM
 Time Started: 11-18-75
 Elapsed Time: 141.07 min (cor)
 Vol Sampled: 282,140
 Blank:

D B Tygel (helper)
 CN 592397 good
 Bags

1/2 of CN 592748 good.
 (room filled with bags).
 dunnage bags
 in both cars.
 taken same time as #82

0	1	0	0	1
0	1	0	0	0
4	1	0	2	2
2	2	1	0	2
0	3	2	0	0
1	0	0	1	0
0	0	0	2	4
1	1	0	0	7
0	1	0	0	1
2	0	0	1	1
0	1	5	1	2
0	0	1	3	1
0	0	1	0	0
0	0	0	0	0
0	1	0	2	5
0	1	0	0	0
2	2	2	0	0
1	4	2	0	0
1	2	3	5	0
1	1	0	0	0
15 35 18 10 24				

Analysis: 1.082 Fibers/cc
 FLV Fibers/cc

Total: 108
 Avg.: 1.08

#20
 3312.06
 3178.04
 134.02

95% 141.07

#60 bldg unloading asbestos

JM +5

2

11-11-75

Time started

Time started 8:17 AM

11-17-75

Elapsed time 169.90 MIN (CAR)

Vol Sample 339800

Blank

CN 592313 FAIR

CN 592407 FAIR

Calm day.

G. Gladfelter (helper)

Taken same time as #79

1	1	0	1	2
3	0	0	1	3
0	1	2	2	4
5	0	2	5	0
2	6	0	0	0
0	1	3	0	0
2	1	1	1	0
0	1	0	3	1
2	0	0	0	1
0	1	1	0	0
0	0	2	1	2
0	0	2	1	0
2	1	0	0	0
0	1	0	2	0
1	3	0	1	1
1	1	0	2	4
1	0	1	3	0
5	0	2	0	0
1	0	0	0	0
4	0	1	1	0

25 18 17 24 24

Analysis: 0.898 Fibers/cc

Total 108

T L V _____ Fibers/cc

Avg 1.08

July #73

8290.21
813560
154.61

917.

169.90

FORM NO. 1-72-1-1

#4

Instrument #4 Hyd-
 Date 4/27 Time 2:45 PM
 Operator MTL Time Started 12:19
 Date Analyzed 5-3-77 Elapsed Time 102 min.
 Analyst J. C. Liles Vol Sampled 204000
 Filter No. 0.003025 Blank

15 p. all day
 Data
 100% = 1

Fiber/5

0	0	0	1	0
0	0	0	1	0
2	0	0	0	0
0	6	0	1	1
0	0	1	0	0
0	1	1	0	2
0	0	0	0	0
0	0	0	1	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	1
1	0	0	0	0
0	0	0	1	0
0	2	0	1	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	1	0	0	0
6	10	2	6	5

Analysis: 0.402 Fibers/cc
 T L V Fibers/cc

Total 29
 Avg : 0.29

Congoleum Corporation
Resilient Flooring Division
Cedarhurst Plant

May 4, 1977

The following represents the work schedule followed
by F. Neumann on April 28, 1977:
+ L. Testerman 27

8:00 - 9:00 A.M. - No exposure to asbestos
Involved in vehicle transportation

9:00 - 11:30 A.M. - Asbestos unloading in Bldg. 60
from R.R. car

11:30 - 12:00 A.M. - LUNCH

12:00 - 3:00 P.M. - Asbestos unloading in Bldg. 60
from R.R. car

3:00 - 4:10 P.M. - Unloading cardboard in Bldg. 2
No asbestos exposure

4:10 - 4:30 P.M. - Wash Up

Hydropulper operator

WS 64

11-11-75

Turn

2

Time

Time started 8:20 AM

elapsed time 228.52 min (con)

Vol Sampled 457,040

Blank

R. Franklin

Fibers/cc

Taken same time as #80

2	0	5	0	1
0	1	0	0	0
2	0	1	0	0
1	0	2	0	0
0	0	0	0	3
1	0	2	0	0
0	2	0	1	0
0	0	1	0	0
1	0	1	0	0
0	0	0	0	2
0	0	0	0	1
1	0	0	0	0
1	4	0	1	0
1	0	0	1	3
1	0	0	0	1
2	0	1	3	0
0	0	0	2	1
0	1	1	0	2
0	0	2	0	2
0	0	2	0	3
13	8	18	8	19

Analysis: 0.408 Fibers/cc

T.L.V. Fibers/cc

Total: 66

Avg: 0.66

Kump
#20

3178.04
2960.95

217.09

95%

228.52

4 side

Bldg # 60

PB # 5

2

8-27-75

Time

Time limit 1050 Am

Elapsed time 50.44

Vol sampled 100880

Blank

CN 592611

slight breeze

F. NEWMAN (helper)

good clean car
no broken bags

Fibers/cc

4	2	1
3	1	7
3	0	0
2	4	5
1	0	2
2	3	
1	0	
3	2	
0	2	
2	1	
1	6	
7	0	
1	2	
0	12	
0	0	
5	1	
6	2	
0	0	
9	1	
4	3	

55 42 15

Analysis: 6.98 Fibers/cc

T.L.V. Fibers/cc

Total: 112

Avg.: 2.49

Note: not corrected for TWA

Only one car unloaded this day

2438.02

2387.58

50.44

#1 side unloading asbestos #5
 SM #5
 11-20-75
 12-6-75
 Time finished
 Time started 10:15 AM
 Elapsed Time 68.08 min
 Vol Samples 136 160
 Blank

214 59 233 2
 dunnage bags in car
 slight breeze
 W. Reese
 same time as #83

0	0	1	0	0
1	0	2	2	0
0	2	0	0	0
0	0	0	0	0
0	0	0	0	0
0	2	0	0	0
0	0	3	1	0
0	0	4	0	0
0	2	1	0	0
2	0	0	0	0
0	0	1	1	5
1	1	1	0	0
1	0	0	0	0
1	2	0	0	1
1	0	0	0	0
0	0	0	0	0
0	0	0	5	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
8	10	13	9	6

Initial conc 0.95 Fibers/cc
 Final conc _____ Fibers/cc

Total 46
 Avg 0.46

small dirt
 Pump 73
 91%
 849355
 843160
 61.95

68.08 count

#4 side Blog = 60

PB #5

2

8-28-75

11-17-75

8⁴⁵ AM

59.39

118 780

Very slight breeze

CN 592643

Bad car

bag shifted

F. NEWMAN (helper)

99

0	2	2
16	3	5
3	2	1
5	0	2
1	3	3
6	0	
0	2	
4	3	
6	1	
3	3	
2	0	
6	2	
5	2	
4	2	
0	0	
0	1	
3	1	
0	1	
4	1	
0	2	

68

Analysis: 593 Fibers/cr
 Total: 112
 Avg: 2.49

Not corrected for TWA

Only one car unloaded this day

2497.41

2438.02

59.39

Hydrapulper

WS64-WS65

11-15-75

2

Time of Day 8:17 AM

11-18-75

Elapsed Time 155.37 MIN (60)

Vol. Sampled 310,747

Flow

C Raver

taken same time as #81

3	5	2	8	0
2	0	1	0	2
2	0	1	1	0
2	2	0	0	1
1	2	1	5	3
1	0	2	3	0
1	1	3	4	3
3	5	0	0	0
0	0	0	0	1
1	1	0	0	1
0	0	0	0	0
2	2	3	9	1
1	1	0	0	3
4	1	0	1	4
2	0	1	0	1
0	1	1	0	3
0	2	2	0	0
2	0	2	0	0
1	0	0	1	1
0	0	0	1	3

28 23 19 33 27

#73

Analysis: 1.18

Fibers/cc

TLV

Fibers/cc

Total: 130

Avg.: 1.3

8431.60
8290.21

141.39

91%

155.37

ASBESTOS FIBER ANALYSIS

Sample Location #1 Box CAR
Specific Materials/Product #5 Pump Rate _____ 1/min
Date Sampled 1-30-74 Time Finished _____
Sampled By _____ Time Started 1 25 PM
Date Analyzed 2-4-74 Elapsed Time 103.81
Analyzed By _____ Vol. Sampled 207.620 c.c.
Field Area _____ Blank _____

Kema:ks. P.P

NO WIND

CLEAN PALLET

BAD CAR

8 bags fallen in doorway
4 were broken open
Total 17 bags broken in car
Dust heavy.

Fibers > 5 μm

[illegible]

Analysis: 49.14 Fibers/cc

Total: 361

T.L.V	Fibers/cc
-------	-----------

Avg.: 36.1

This slide does not meet the requirement of not counting a field with over 20 fibers and counting a minimum of 20 fields

$$\begin{array}{r} 4793.97 \\ 4690.16 \\ \hline 103.81 \end{array}$$

ASBESTOS FIBER ANALYSIS

Sample Location #1 Box car.
Specific Materials/Product _____ Pump Rate 2 l/min
Date Sampled 2-1-74 Time Finished _____
Sampled By _____ Time Started 8²⁰ AM
Date Analyzed 2-5-74 Elapsed Time 65.15
Analyzed By _____ Vol. Sampled 130,300 c.c.
Field Area _____ Blank _____

Remarks:

BARNES (lift truck)

light wind
good car.

test in 2 parts

Fibers > 5 μ

2	2			
0	1			
2	3			
3	2			
5				
3				
9	3	-		
4	9			
2	7			
3	1			
0	5			
1	2			
1	2			
2	1			
0	-			
3	1			
1	2			
1	3			
0				
0	-			

Analysis: 5.75 Fibers/cc
T.L.V. _____ Fibers/cc

Total: 106
Avg.: 2.65

48 59 12
479397

65.15

ASBESTOS FIBER ANALYSIS

Sample Location #41 Car
Specific Materials/Product #5 Pump Rate 2 l/min
Date Sampled 2-6-74 Time Finished _____
Sampled By _____ Time Started 10 40
Date Analyzed 2-14-74 Elapsed Time 53.73
Analyzed By _____ Vol. Sampled 107,460 cc
Field Area _____ Blank _____

Remarks: A. LOCKARD

*good car
some wind*

Fibers > 5 μ

0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
1	0	0	1	2
0	0	0	0	0
0	2	2	0	1
0	0	0	2	0
0	6	0	1	1
3	1	0	0	0
2	2	0	0	0
0	1	0	0	0
0	0	0	0	0
0	3	0	0	0
3	0	0	0	0
0	0	0	0	0
1	2	0	0	3
0	2	2	0	0
0	0	0	0	0
0	1	0	2	0

11 21 4 6 7

Analysis: 1.3 Fibers/cc
T.L.V. _____ Fibers/cc

Total: 49
Avg.: .49

49 12.85
4859.12
53.73

ASBESTOS FIBER ANALYSIS

Sample Location #4 Box CAR
 Specific Materials/Product _____ Pump Rate 2 l/min.
 Date Sampled 2-8-74 Time Finished _____
 Sampled By _____ Time Started 10 ³⁵₄₅
 Date Analyzed 2-13-74 Elapsed Time 64.74
 Analyzed By _____ Vol Sampled 129,480 cc
 Field Area _____ Blank _____

Remarks

LOU
about 15 broken bags

Fibers > 5 μ

2	5	2
0	1	1
9	5	3
1	3	0
4	1	0
2	0	1
6	3	4
1	2	0
1	3	3
1	2	0
3	2	
1	2	
1	0	
0	3	
2	0	
2	1	
2	0	
1	5	
11	0	
2	1	
51	39	14

(50)

Analysis: 4.54 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 104
 Avg.: 2.08

4977.59
4912.85
 64.74

ASBESTOS FIBER ANALYSIS

Sample Location: # 4 HYDRAPULPER

Specific Materials/Product _____ Pump Rate _____ l/min

Date: Sampled 2-15-74 Time Finished

Sampled By _____ Time Started 11:43 AM

Date Analyzed 2-20-74 Elapsed Time 216.86 min

Analyzed By _____ Vol. Sampled _____ CC

Circle Area Blank

Remarks: R. Mann Shift
C. ARNOLD

C. ARNOLD

W 562

Loose C.M.C.

Fibers ≥ 5 μ

[illegible]

TO MANY MISCELLANEOUS
PARTICLES

Analysis: _____ Fibers/cc

Total: _____

7 L.V. _____ Fibers/cc

Avg. :

$$\begin{array}{r} 5294.45 \\ 4977.59 \\ \hline 116.86 \end{array}$$

ASBESTOS FIBER ANALYSIS

Sample Location #41 HYDRAPULPER OPERATOR
 Specific Materials/Product _____ Pump Rate 2 l/min
 Dated Sample 2-16-74 Time Finished _____
 Sampled By _____ Time Started 9⁰⁰ AM
 Date Analyzed 2-20-74 Elapsed Time 291.07 min.
 Analyzed By _____ Vol. Sampled 582,140. c.c.
 Field Area _____ Blank _____

Remarks: R. Mann Shift
E. JONES

WSG 4
Loose C.M.C.

Fibers $\geq 5 \mu$

2	0	0	1	2
1	1	0	0	0
1	1	0	1	0
1	0	1	0	2
1	0	3	1	1
0	3	0	1	2
1	0	0	0	0
0	1	0	1	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	1	3	0
4	2	1	1	0
1	0	0	0	0
1	0	1	0	4
0	0	1	0	0
0	1	2	0	0
0	0	0	0	1
2	0	3	1	0
0	0	2	0	1
10	9	15	10	13

Analysis: 0.3 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 63
 Avg.: 0.63

558552
529445
291.07

bldg #60 unloading asbestos
 7ms7
 11-24-75
 12-6-75
 109,560
 blank

helper
 car DWC 582303
 Gladfelter
 same time as #85

1	3	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
1	0	0	0	0
1	2	0	0	0
0	0	2	1	1
3	0	0	0	2
0	0	0	3	0
0	1	0	1	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	3	0	0	0
0	2	0	0	0
6 12 2 5 3				

Analysis: 0.72 Fibers/cc
 T L V Fibers/cc

Total: 28
 Avg: 0.28

8543.4
 8493.55
 49.85
 73
 91%

unloading asbestos #60 fldg.
 7M VS7
 12-2-75
 12-20-75
 Elapsed Time 56.76 min
 Vol Sampled 113,520
 Blank

G Gladletter
 (helper)
 DWC 582416
 good car.

Fibers/cc

0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	2	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	3
0	0	0	1	0
0	0	1	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
1	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	3	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
1	4	2	4	5

Analysis: 0.4 Fibers/cc
 Total: 16
 Avg: 0.16

8679.44
 8627.79
 #73 51.65 91%
 56.76 corrected

12-1-75

#1 side unloading asbestos
 JM #5- Tube #2
 12-1-75 Time finished
 12-5-75 Time started 1:00 pm
 92.67
 Vol Sampled 185,340
 Blank

Dunnage bags
 D.W.C. 581880
 N. FENOFF (HELPER)
 BOTTOM BAGS
 OF 1 SKID BROKEN,
 MOVED 1/2 OF BAGS
 BY HAND.

Fibers/cc

2	14	1	7	1
0	0	0	0	0
1	2	6	0	1
1	0	3	0	0
4	2	0	0	0
3	1	0	0	2
1	0	0	2	2
1	0	0	0	2
0	0	0	0	0
0	1	1	0	0
0	0	2	0	0
1	0	1	0	6
0	1	0	0	2
1	1	0	0	0
2	0	0	0	0
0	0	1	0	0
2	1	0	3	0
0	2	1	0	1
0	1	1	0	0
0	1	0	1	1

19 27 17 7 18

Analysis: L34 Fibers/cc
 71.5 Fibers/cc

Total: 88
 Avg: 88

8627.73
 8543.40
 84.33 : 91%

#70

#1 unloading asbeston

CAREY
FELT BEST 15

2

10-30-74

Time started

Time started

1 ³⁵/₁₀

11-5-74

Elapsed time

111.7 min

Vol Samples

223400

.055mm x .055mm

Blank

DAVE MUNCH

CAR C.P. 57588

Fibers/cc

ends of bags not glued properly.
 Poor loading, extra bags
 loose on top of South end
 1 man cleaning car and
 floor (DAVE) 8 min.
 2 men unloading
 very dirty skids from
 machine room

3		
16		
7		
11		
8		
6		
12		
5		
9		
4		
11		
6		
5		
7		
8		
18		
12		
23		
5		
4		

182

Analysis: 11.51 Fibers/cc

Total: 182

F.L.V. Fibers/cc

Avg: 9.1

5811.86

5700.16

11670

3.1
3.08

#70
recheck

Time Started _____ Time Finished _____
 Time Started _____ Elapsed Time _____
 Date 11-26-74 Vol Sampled 223,400
 Name By _____ Blank _____

Fiber #

Fibers/cc

12		
14		
11		
*		
6		
7		
2		
8		
16		
5		
5		
3		
14		
14		
9		
8		
6		
5		
9		
9		
11		

* 20

Analysis: 11.0 Fibers/cc
 T L V _____ Fibers/cc

Total: 174
 Avg.: 8.7

22-30
90

#71

ASBESTOS FIBER ANALYSIS

BLDG #60
 #5 asbestos
 Date 11-7-74
 Time Finished
 Time Started 8:45 AM
 Elapsed Time 54.24 MIN
 Vol Sampled 118,400
 Blank

E. DAVISON
 unload car
 DWC 581801
 1 broken bag
 good car (loaded OK)
 4 min. to sweep
 out car.

3	0	0
0	2	0
3	1	0
0	2	1
1	10	4
2	2	5
4	1	0
4	1	1
2	5	1
2	1	3
1	0	2
0	1	3
6	1	2
2	3	0
1	2	3
4	4	1
2	0	2
2	6	7
1	2	7
3	1	3

43 45 50

Analysis: 5.99 Fibers/cc
 T L V _____ Fibers/cc

Total: 138
 Avg: 2.3

28

586610
 581186
 54.24

#72

FIBER ANALYSIS

BLDG #60

P.B. #5

Camp Site

2

11-13-74

Time Finished

Time by

Time Started

10:10 AM

Date Analyzed

11-15-74

Elapsed Time

55.35 min.

Analyzed By

Vol Sampled

110,700

Sample #

003025

Blank

Analyzed by DAVE MUNCH

CAR CN 543897

Fibers/cc

windy day.

1 broken bag

5 min - clean out car.

1	0	2	0
3	2	0	0
1	12	0	3
2	2	3	1
1	2	0	0
2	3	0	0
1	0	3	1
2	2	1	0
2	2	1	2
2	2	1	0
1	0	0	
0	2	3	
9	0	1	
1	2	1	
3	0	1	
0	0	1	
2	1	4	
0	0	1	
0	2	1	
0	1	0	

35 35 26 7

Fibers/cc 3.75

Total: 103

Fibers/cc

Avg. 1.47

5921.45
 5866.10
 55.35

#73

#1 side

PB #5

11-21-74

2

12-2-74

Time

In started

1 $\frac{25}{pm}$

Placed time

92.57

Vol Sample

197, 40

Plant

CAR CN 592737

I. BARNES

2 men working in
car.uneven and
Broken floor3 skids in doorway
no card board

4 bags broken by truck

empty tub of asbestos
sweepings in Dempster Basket

1	0	0
0	5	0
4	1	2
1	1	0
3	2	4
0	0	4
0	0	0
0	2	3
0	2	4
1	0	3
3	1	2
5	2	1
2	1	0
6	0	0
2	5	11
3	5	2
4	3	2
1	2	2
1	2	2
2	1	1

Analysis: 2.72 Fibers/cc

Total: 113

T L W _____ Fibers/cc

Avg.: 1.9

28 min cleanup

$$\begin{array}{r} 6020.02 \\ 5921.45 \\ \hline 98.57 \end{array}$$

14

60. BLDG.

PB #5

11-26-74

12-3-74

Time Spent

Time Started 10:10 PM

Elapsed Time 43.16

Vol Sampled 86,320

Blank

AN 543355

E. DAVIS
good clean car

VERY WINDY

FLOOR DIRTY (IN BLDG)

2 broken Bags

6 min to clean out car

car door open when started

Fibers/cc

2	2	0	1	0
2	3	1	0	1
2	0	0	0	2
1	0	1	0	1
0	0	0	1	2
5	0	0	1	2
1	1	2	2	0
1	1	2	2	0
1	0	0	1	1
1	1	0	1	6
1	0	1	3	5
0	0	0	0	0
0	0	0	0	1
0	1	0	1	0
1	0	0	1	2
0	1	2	0	1
2	4	1	0	1
3	2	0	0	0
0	0	0	1	0
1	0	1	0	1

25 16 11 18 26

Analyses 3.14 Fibers/cc

2.14 Fibers/cc

Total 96

Avg 96

6063.18
6020.02
43.11

75

60 BLDG

PB #5

11-26-74

Time Filled

Time Started

2:10 PM

Elapsed Time

66.45 min

Vol Sampled

132.900

Blank

EL 57064

E. DAVIDSON

clean down way and
tops of bags with Vac.

Very Windy
bags shifted in downway
8 min. cleaning Can.

2 broken bags

1	2	3	0
0	2	4	3
1	1	5	3
0	0	1	5
3	0	0	0
1	1	5	1
1	1	9	0
0	4	5	2
0	2	1	1
0	0	2	0
0	3	0	
2	2	3	
2	3	5	
5	4	0	
3	2	0	
0	2	0	
1	3	0	
1	2	4	
1	0	0	
0	1	1	

27 31 43 15

Fibers/cc 3.53

Total: 116

Fibers/cc

Avg: 1.66

Broken bags
441 11

6129.63
6063.18

66.45

#76

#1 side
PB #5
11-27-74
12-4-74
Time Started 2:00 PM
Elapsed Time 64.25 min
Vol Sampled 129,700 cc
Blank

Case # CN 592406

Fibers: 5

slight breeze
good car.

N. FENOFF
no broken bags
sweep up 10 min

1	1	1	1	3
4	4	1	1	1
0	1	0	0	2
0	0	0	0	5
1	5	3	0	0
1	0	0	1	1
0	0	2	2	0
3	1	4	0	1
0	0	0	0	0
1	2	0	0	0
1	1	3	0	0
2	2	1	1	2
1	0	0	1	0
1	4	1	0	1
0	1	0	2	0
0	1	2	2	1
1	2	0	1	0
4	1	3	0	0
0	0	0	6	0
0	0	0	0	0
22	27	21	15	17

Analyst: 2.2 Fibers/cc
T.V. Fibers/cc

Total: 102
Avg.: 1.02

6194.48
6129.63
64.85

1/24/75
 The difference between timer reading
 and meter reading is 118 mins
 (114% vs 118 mins)
 The difference between timer reading
 and meter reading is 118 mins
 (114% vs 118 mins)

C-E EASTWOOD

"THE PAPER BOYS"

1/24/75

Pump timer was found to be
 in error.

After being fully charged, the pump
 was run for exactly 300 minutes.
 At the end of this time, the timer
 gave a reading of 263.4 minutes

$$\frac{263.4}{300} \times 100 = 87.8\%$$

$$\frac{300}{263.4} = 1.13895$$

To get correct time using timer,
 multiply the timer value by 1.139

10/28 - 50.05 mins on pump in 56.42 min

$$\frac{50.05}{56.42} \times 100 = 88.7\%$$

$$\frac{56.42}{50.05} = 1.127$$

Tests run 3 minutes
with GSHN ...

#1 slurry

1-28-75

2-7-75

0.55mm x 0.55mm

2

12 $\frac{28}{Am}$

10 $\frac{21}{Am}$

Elapsed Time 114.16 min

Vol 228, 320, 0

Blank

BLANK

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	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	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	0	0	0	0

Analysis: 0.012 Fibers/cc

F.L.V. Fibers/cc

Total: 1

Avg: .01

#1 slurry

1-28-75

1-31-75

0.055 mm X 0.055 mm

Time Pressure 2 12 $\frac{25}{Am}$

Time Started 10 $\frac{20}{Am}$

Elapsed Time 114.16 min

Vol Sample 228, 320.0

Blank

H. DODRER

1	0	0	0	0
2	0	0	0	0
0	0	0	0	1
2	0	0	2	0
0	1	0	0	0
3	1	3	0	2
0	0	2	0	0
1	0	0	1	0
0	1	0	0	2
0	0	0	0	1
1	1	0	1	2
1	0	0	0	1
0	0	0	0	0
1	1	0	6	0
1	0	4	0	1
1	0	0	0	1
0	6	0	0	2
1	0	0	1	1
0	0	0	1	0
0	0	0	0	0
15	11	9	12	14

Analysis: 0.76 Fibers/cc

T L V Fibers/cc

Total: 61

Avg: 61

7099.75
6985.59
114.16

BIDG #60

1-28-75

Time

2:52 PM

Time

12:52 PM

1-31-75

elapsed time

111.46 min.

dot sample

222,920.0

.055 mm x .055 mm

Blank

E. HENRY

1	1	0	0	0
0	0	1	4	0
0	1	0	2	0
1	0	0	1	0
0	0	1	2	0
2	1	0	2	0
1	0	0	2	1
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	2	0	0
2	3	0	1	2
0	0	1	1	4
0	1	1	0	0
0	1	1	3	2
0	0	0	0	0
0	0	2	1	2
1	2	0	1	1
0	1	0	1	1
0	0	0	0	1

8 11 9 22 12

Analysis: 0.79 Fibers/cc

T L V _____ Fibers/cc

Total 62

Avg 62

72 11.21
7099.75
111.46

BLOG = 50

1-2-75

2-7-75

0.55 mm x 0.55 mm

2

2 $\frac{52}{\mu m}$

12 $\frac{52}{\mu m}$

116.46 min

222, 920.0

Blank

BLANK

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	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	0	0
0	0	0	0	0

Analysis: 0.051 Fibers/cc

Fibers/cc

Total: 4

Avg: .04

not time weighted

GREENS SHIFT

SHEET#

FIBERS/CC

DATE
SAMPLE

DRY END #5

M. SHERRIL

3

0.365

2-21-8

J. GRAHAM

12

0.05

8-6-8

J. DANNER

13

0.02

8-6-8

WET END #5

19

0

9-19-8

BLDG #60

O. BROTHERS

8

0.0386

8-4-8

E. EVANS

9

0.16

8-4-8

DRY END #5

DIXONS SHIFT

A. DELL

14

0.0354

9-3-8

S. JONES (SLIDE DIRTY JEM)

15

0.102

9-3-8

WET END #5

23

0.037

9-25-8

BLDG. #60

D. WAREHIME

21

0.047

9-24-

JIM LONG

22

0.087

9-24-

DRY END #5

RIFLES SHIFT

J. ARBAUGH

16

0.019

9-11-8

J. STEPHAN

17

0.03

9-11-8

WET END #5

25

0.005

10-20-

BLDG #60

G. CROUSE

26

0.086

10-22-

W. FERGUSON

27

0.096

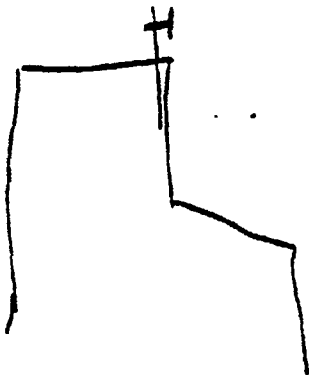
10-23-

		FIBERS/cc	
N. DEWANS OFFICE	1	0.059	1-21-8
N. DEWANS OFFICE	2	0.05	1-21-8
ROTAPS G. BRINKMAN	20	0.427	9-22-
WILLIAMS DISINTEGRATOR RESPIRATOR USED G. BRINKMAN	18	3.06	10-8-
INLOADING ASBESTOS N. BARNES	10	4.85	8-5-
INLOADING ASBESTOS N. BARNES	24	0	10-20-
INLOADING ASBESTOS L. TESTERMAN	11	0.133	8-5-
# 7 LAGOON	4	0.00196	7-14-
# 6 AND # 7 LAGOONS	5	0.0118	7-14-
# 6 LAGOON	6	0.0116	7-15-
# 6 LAGOON	7	0.0319	7-15-

USE PRELIMINARY

Wet end #5 machine
 Instrument # 035W364 Pump # 2
 Date 12-14-75 Time Finished
 Date 12-20-75 Time Started 9:15 AM
 Elapsed Time 238.18
 Vol Sampled 476.360
 Blank

South end console
 5 1/2' above floor
 right angle to side



0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
2	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	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	1	0
1	1	0	0	0
2	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	2	0	1
1	0	0	0	0
7	1	4	1	1

Analysis: 0.08 Fibers/cc

7 L 1 Fibers/cc

Total 14

Avg 0.14

911.44

8894.69

216.75 91%

BLDG #60
 Product JM #5
 12-21-75
 Time started 12:30 PM
 Stopped time 164.08 min
 Vol Sampled 328.160
 Blank

ED. DAVIDSON
 no dunnage tag
 helper
 same time as #92.
 Two cars
 CN- 592650 - Fair
 CN 566370 - good

1	2	
3	0	
1	2	
3	4	
2	6	
1	2	
5	3	
1	0	
3	2	
1	0	
5	0	
3	0	
3	3	
3	4	
2	6	
0	9	
3	0	
4	1	
3	2	
7	8	
54	59	

Analysis: 2.43 Fibers/cc
 Total 113
 Avg 2.825

3590.61
 3434.73
 155.88

20 95%

164.08 corrected

#9.

Bldg #60

JM #5

12-21-75

Date

Time

Related to

Field No.

Time

Time started 12:30 PM

Elapsed Time 150.29 min

Vol Sample 300.580

Blank

Name

Lou. Testerman

Fiber

no damage bags
lift truck operator.

same time as #91

Two Cars.
CN 592680 Fair
CN 566370 Good.

0	0	1	2	3
0	0	1	1	1
1	0	4	4	1
0	0	1	0	0
3	2	2	4	7
0	0	0	0	3
0	6	0	0	2
4	1	3	0	4
0	0	0	0	2
0	5	0	2	0
1	0	0	0	0
0	0	2	1	0
3	1	7	0	2
0	0	1	0	0
0	0	0	2	0
1	0	5	0	0
0	8	0	0	3
0	1	0	3	0
5	1	0	0	4
0	2	0	2	0
18	27	28	19	32

Analysis: 1.17 Fibers/cc

Fibers/cc

Total 1.24

Avg 1.24

9248.40
9111.64

136.76

#73

91%

150.29 corrected

Bldg #60

1-7-76

9 ⁰⁰/_{Am}

133.11

266.220

Low Testerman
lift truck operator
same as #94

2 cars

CN 592432

CN 592534

good cars

dunnage bags

Total 8 turn bags.

0	0	0	0	0
7	0	0	0	0
0	1	0	3	0
0	0	2	0	0
2	0	2	0	0
0	0	0	2	2
0	0	0	0	2
0	0	0	0	0
3	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	1
0	0	0	0	3
1	0	0	2	0
2	0	2	0	0
0	1	0	0	0
0	1	0	0	1
2	0	0	1	0
2	2	0	0	2

19 15 7 12 11

Analyst: 0.68 Fibers/cc

Fibers/cc

Total 64

Avg. 0.64

9369.53

9248.40

121.13

#73

9170

Bldg #60
 JM#5
 1-2-76
 Time started: 9:00 AM
 Elapsed Time: 137.09
 Vol Samples: 274.180
 Blank:

Fred. Newman
 Helper
 same time as #93

2 cars

CN 592 432

CN 592 534

good cars

dunnage bags

total 8 torn bags

0	3	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	3
0	0	2	0	0
0	0	0	0	0
2	0	0	3	0
0	1	0	0	0
0	1	0	0	2
0	0	0	0	0
0	0	2	0	0
1	0	1	0	0
0	0	0	0	2
0	0	0	1	0
1	0	0	0	0
2	0	0	0	1
0	0	0	0	0
0	0	0	3	0
0	1	0	0	3
0	0	0	0	0
8	6	5	8	11

Polystyrene: 0.39 Fibers/cc

7.1 Fibers/cc

Total 38

Avg: 0.38

#20
 37 20.85
 35 90.61
 130.24

95%

37

D-4

START 10742

ASBESTOS FIBER ANALYSIS

#5 Hammer mill 4 Dry End

Date: 7/15

Time: 2:00 PM

MTA

Time Analyzed: 3.03

Time Started: 1:51

Elapsed Time: 72

Vol Sample: 144.000

Blank:

ROBERT HOTT

Fiber Count

hammer mill ran

40 min.

Analysis effected by
 unknown ~~on~~ contamination
 on slide. *feh*

0	0	0	0	0
0	2	0	0	0
0	0	0	1	0
0	0	0	0	0
1	0	0	0	0
0	0	2	0	0
0	0	0	0	0
0	3	0	1	0
1	0	0	1	1
0	0	0	0	1
0	0	0	0	0
0	0	0	1	0
0	1	0	0	0
0	0	0	0	1
0	1	0	0	0
1	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0

3 7 3 4 4

Analysis: 0.41 Fibers/cc

T.V. Fibers/cc

Total: 21

Avg: 0.21

6. 20

ASBESTOS FIBER ANALYSIS

SECRET

ה'תש"ח

Time written 2:52

Time Started 5

Elapsed Time 318.46

Vol Sampled 636920

Blank

42.75
~~10463~~
1927

[illegible]

Total: 5

Avg : 106

START 051655-

QUESTIONS FOR ANSWERS

Sample	#4 Mix	440
Start Date	7/15	Time 24m
End Date	7/16/25	Time Finished 2:54
Operator	MJS	Time Started 9:19
Elapsed Time		Elapsed Time 395
Vol Sample		Vol Sample 790.000
Blank		Blank

Mike

4:15:00 : 4:15:00

$$\begin{array}{r} 128.25 \\ \hline 2389.75 \\ 354 \\ \hline 41 \\ 97 \end{array}$$
[illegible]

Analysts. 0536 Fibers/cc
FLY - Fibers/cc

Total: 15
Avg. 15

4 21

104

70342
START 65758

ASBESTOS FIBER ANALYSIS

Date 7/15 Time 9:17
 Sample MTL Time Finished 11:00
 Date 7/16 Time Started 9:17
 Sample MTL Elapsed Time 103
 Vol Sampled 206000
 Blank

TRIAL GLASS FIBER

0	0	0	0	0
0	1	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	1	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
3	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	2	1	1
0	0	0	0	0

Analysis: .219 Fibers/cc
 T.V. Fibers/cc

Total: 16
 Avg: .16

50 2 Box 2072

DI

STAR 38174

ANALYSIS FORM

7/15/76
MTA
7/16/76
MTA
24pm
Time Sample 10:59
Time Change 9:16
Elapsed Time 103
Vol Sample 206000
Blank

FR: Newman

0	0	0	1	0
0	0	0	0	1
1	0	0	0	1
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	1	0	0	0
0	0	0	0	0
0	0	0	4	1
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Analysis 1646 Fibers/cc

T.L.V. Fibers/cc

Total 12

Avg 12

47

C 13

051655
START 041453ASHFIBER FIBER ANALYSIS

3

#5 DRY
 Time Left 24PM
 Time Finished 306
 Time Started 1104
 Elapsed Time 122
 Vol Sampled 244000
 Blank

pg 1 of 1

STATE HALE

Singer 5

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	1	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
1	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Analysis 0.07 Fibers/cc

Fiber 0.06 Fibers/cc

Total: 6

Avg. 0.06

28

C-20

STOP 500172
START 488086

ASBESTOS FIBER ANALYSIS

#5 Dry Brake man 1/2 41 Sprint
 2 LPM
 7/14 Time Finished 307
 MTF Time Started 102
 Elapsed Time 125
 Vol Sampled 250000
 Blank

RE: 10

Fibers/cc

ROBERT HOTT

0	0	0	0	0
0	0	0	1	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	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	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Analysis: 0.034 Fibers/cc

TIV _____ Fibers/cc

Total: 3

Avg. 0.03

214RT 00112
510P 65758

#5 Dry.

170 - 175 2LPM

7/14

Time finished 306

M. J. L.

Time Started: 1248

Elapsed Time / 34

Vol. 2 and 3: 276.000

Blank

Liberty 5

$$\begin{array}{r} 12 \\ 126 \\ \hline 138 \end{array}$$
[illegible]

Analysis: 0.02 Fibers/cc

T L V _____ Fibers/cc

Total: 2

Avg. 0.02

#26

N

STOP 38173
START 32707

ASBESTOS FIBER ANALYSIS

#5 Machine Dry End
Date 7/14/76
Time 2:40 PM
Time Finishes 3:04
Time Started 12:57
Elapsed Time 127 min
Vol Sampled 254.000
Blank

ALFREDO DELL

Fibers per cc

3
120
4
127

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	1	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	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	0

0.33
0.03

3
0.03

25

C-20

SDP 488086
START 481637

ASBESTOS FIBER ANALYSIS

Sample Location #1 Box car

Manufacturer MTA Date Rec'd 7/14
 Sample No. 1041 Lot No. 134000
 Date Analyzed 67 Analyst 2LPR

Remarks

N BARNES
BARNES

15
4
45
07

0	0	0	0	0
1	0	0	0	0
1	0	0	0	0
2	0	2	0	0
0	0	0	0	0
0	0	0	0	0
0	1	2	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	2	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	2	0	0
1	0	0	0	0
0	0	0	2	0

Count 0.40 Percent 19
 Fibers/mL 0.19

24

C73

770P 041453
START 035589

5.64

#1 Box car

7/14

MTA

2 LPM

Time finished 1149

Time started 1042

Elapsed time 67 min

Vol Sampled 134.000

Blank

DAVID MUNCH

44
18
67

Dunnage slipped

0	0	0	0	0
0	0	1	0	1
0	0	0	0	0
0	0	0	1	0
0	0	0	0	1
0	0	0	1	0
0	1	0	0	0
0	0	0	0	0
2	0	0	2	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	3	0
0	0	0	0	0
0	0	0	0	0

Analysis 0.316 Fibers/cc

T.V. _____ Fibers/cc

Total 15

Avg 0.15

29

101

#4 BOX CAR

CAR 6000

32707
START 30380

7/14
MTA

24m

Time 1122

Time 1028

Elapsed Time 2.54

Vol 108000

Blank

FRED NEWMAN

32
22
—
54

0	0	0	0	0
0	0	0	0	0
0	2	1	0	1
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	2	0
1	0	0	2	0
0	0	0	0	0
0	0	1	0	0
0	1	0	0	0
0	0	0	0	0

0.236 fibers/cc
Fibers/cc

Total 9
Avg 0.09

B-12 Con Con)

60112
START 57586

#4 BOX CAR

#5 / 3PLY

2.4m

7/14

... 1124

MTS

The stars... 1026

Classed Time 58 min

Vol Sample: 11.6002

21608

TERRY GLANFALTER

[illegible]
$$\begin{array}{r} 24 \\ 34 \\ \hline 58 \end{array}$$

Analysis: 0.17 Fibers/100

FLV	Fibers/cc
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Total, 7

Avg. 0.07

#41

B2

START 54388

STOP 57586

#4

LOADING TRAILER VERY POOR E

7 MS7

~4PM

2/14/76

10:22

MTL

Time started: 9:07

Elapsed Time 75 min

Vol. Sample 150000

Blank

TERRY GLADIFILTER

0	1	1	1	0
0	0	0	4	0
0	0	0	1	0
0	1	0	0	0
0	3	1	1	0
1	0	0	0	0
0	0	0	0	0
0	3	0	0	1
0	3	1	0	0
0	1	0	3	0
0	0	0	0	0
2	2	0	0	1
0	1	0	0	0
0	0	0	0	2
1	1	1	1	0
0	0	0	0	0
1	0	0	0	0
1	0	1	1	0
0	2	1	0	0
0	0	0	0	1

$$\begin{array}{r} 53 \\ 22 \\ \hline 75 \end{array}$$

Fibers/cc 0.94

Fibers/cc

Total 50

Avg 1.5

120

B-1

SARAS 21 HTRUCK/OP1

5

DATE TIME

#4

LOADING TRAILER

STOP 30380

START 27176

7MS7

2 LPM

7/14

Time Taken 10.23

MJA

Time Started 9:07

Elapsed Time 76 min

Vol Sampled 152.000

Blank

FRED NEWMAN

$$\begin{array}{r} 53 \\ 23 \\ \hline 76 \end{array}$$

0	0	0	0	1
2	0	0	0	2
0	0	0	0	0
0	2	0	0	0
3	2	1	0	1
1	1	0	1	0
0	0	2	1	0
0	1	0	5	0
0	0	0	1	1
1	0	0	0	0
1	0	0	1	0
1	1	0	0	0
0	0	1	2	0
0	0	0	0	1
1	0	0	1	0
0	2	0	0	0
0	0	1	0	0
0	1	4	0	1
4	0	0	0	1
0	0	1	1	4

14 10 10 13 12

(59)

Analysis 1.097 Fibers/cc

Total 59

F.V. Fibers/cc

Avg 59

2

C-11

STAT 024042

11546

#4 HYDROLYZER

2 LPM

7/14

1030

MTA

2:19

115.46

230920

21. សាង

Wm

Bitzel

[illegible]

Analysis: 0.11 Fibers/cc.

T I. V	Fibers/cc
--------	-----------

Total: 9

Avg. 0.09

21 APR 5 21 48

STOP 54388

#4 Box car

7/14

1756

2 LPM

9.03

815

classen $\approx 48 \text{ min}$

Vol 1: 1960-1969 96000

Blank

TERRY GLADFELTER

• **Unit 1**

[illegible]

Analysis: 0.147 Fibers/cc

7 1 9	Fibers/cc
-------	-----------

Total: 5

Avg. 0.05

p-1

STOP 22175
START 24919

#4 Box car

24th Nov 2015 24PM

7/14

“*Wah! Wah!*”

M. J. L.

Time started: 8:14

Flange time... $9:05 = 51 \text{ min}$

Vol Samples 162000

2139

FRED - NEWMANN

Cheng, S. S.

[illegible]
$$\begin{array}{r} 46 \\ 5 \\ \hline 51 \end{array}$$

Analysis: 0.166 Fibers/cc

F.L.V.	Fibers/cc
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Total: 6

Avg : 0.06

#10

NI

SINK 16316
STOP 24918

ASBESTOS FIBER ANALYSIS

Sample Location #1- mix

Specific Materials/Product

7/B
MT Landeki

Pump Rate 2.4 PM

Time 749

Rate 4.24

Time to 100 205 min

101 Sample 410000

Start

DAVE ALLWIRE

1	5
6	3
3	1
4	0
0	7
0	2
6	4
6	5
1	4
0	2
2	1
9	4
2	2
1	1
2	0
1	1
5	3
4	1
2	3
6	2
62	51

1.95

113

2.825

(#14)

C 13

007713 25A
024043 STO1

ASBESTOS FIBER ANALYSIS

Sample Location #4 HYDRO PULPER

Specific Materials/Product

7/13
MT Lendali

Time 2.4m
730
4.06
163.30
326600

GRAVER - CARLOS

007713
024043
16330

0	0	1	7	0
2	0	0	0	0
0	0	0	0	0
0	1	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	1
0	0	0	0	0
0	1	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	2	0
0	0	0	0	0
1	0	0	0	0
0	1	0	0	0
4	3	1	3	1

0.104

12

0.12

START 52126
43822

3304

DATE 1-22-20

7/13/76
M J Sendaki

729

4/3

1968

at 1000000 2 2 2 500

RUSSELL FRANKLIN

[illegible]
$$\begin{array}{r} 963 \\ \hline 883.3 \end{array}$$

1058

6

. 06

II 114

C-11

STOP 468666

START 446275

ASBESTOS FIBER ANALYSIS

A 22391

Sample Location #1 MACH SLURRY

Specific Materials Product

Turns 2000

7/13/75

743

MT Sondati

339

244

488.000

DAVID LEPPA SR

$$\begin{array}{r} 43 \\ 180 \\ 21 \\ \hline 244 \end{array}$$

$$\begin{array}{r} 2223 \\ 1476.2 \end{array}$$

3	3	4
3	1	5
4	0	4
5	1	2
1	0	4
2	3	
6	3	
0	3	
2	3	
2	5	
4	2	
0	0	
5	4	
2	2	
1	4	
1	2	
4	5	
3	0	
3	0	
3	3	

54 44 19

45

1.5

117

2.6

B-2

STOP 43821

START - 40453

ASBESTOS FIBER ANALYSIS

Sample Location #5 DRY End

... 1950-1951 ...

Time: 2:45 PM

7/13/76
MJ Sendaki

302

1.45

Time 77 min

154000

1974

Robert Hall

$$\begin{array}{r} 15 \\ 62 \\ \hline 77 \end{array}$$

47.75'
465.75'

[illegible]

1091

5-

05

C 73

#4 HYDROFLUOR

22 PM

2:49

12: ~~27~~

119.27

238540.

$$\begin{array}{r} 22.4 \\ 77. \\ \hline 119.27 \end{array}$$
[illegible]

0.08

7
0.07

#8.

C-20

446275
43614 START
101.61

#4 HYDROFLUOR

7/13/76
MT Landuki

2 LPM
2:08
12:24
101.61
203 220

MIKE ALMONY

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	1
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
1	0	0	0	0
0	0	0	0	0

0.06

4
0.04

#1

B L

35762

~~10474~~

SECTION 1 - TEST ANALYSIS

3

#1

BOX CAR

APPA

NO

UNLOADING

2 LPM

7/13/76

1:20

MT Hendaki

1132

108 min

216000

28
80
108

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
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
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

#6

32283 START
35762 STOP

#1 BOY CAR

#5

2 LPM

7/13/76

MT Soudaki

10:09

11.26 = 8 min

162 000

~~NELSON FANOFF~~
LAW WITT

3

55
26
81

12.55
2.55

1	0	0	0	0
0	0	0	0	1
0	1	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	1	0	1	0
0	1	1	0	0
0	2	0	0	0
0	0	0	0	0
3	0	0	0	0
0	0	1	0	0
0	0	1	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0

12617

15

15

— — —

32283 550P

29076 STARF

#4. Box car

#5

2 LPM

9.37

8:27

~~93~~ 70 min

140 CCC

FRED SUPPAMAN

$$\frac{72.5}{423.2}$$

35

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	1
0	0	0	1	0
0	0	0	0	0
1	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	1	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	1
0	0	2	0	0
0	0	0	0	0
0	0	0	0	0

0127

11

0.11

21 2

- 13

982670 START

DATE 10/13/11

#4 BOY CAR

#5

24M

7/13

9:37

MT Suzuki

8:28

69 min

138000

TERRY CLADFELDER

0	0	0	0	0
0	1	0	0	0
0	0	0	2	0
0	0	0	0	0
0	0	0	0	1
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
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
1	0	0	0	1
0	0	0	0	0

0.16

SEP 10

8

.08

436114
max 20018 START

#1 mix

2 LPM

7/13/76
MTJ Sondati

11 00 max time

8:13

167 min

334 000

B. ECKER

1188.45
1010.35

LUNCH
11:30

7:13

0	3	1	3
2	0	2	0
1	5	0	0
2	3	2	4
3	0	0	2
0	1	4	0
4	2	0	0
6	2	0	0
0	2	0	0
0	0	2	3
0	1	3	0
3	0	2	2
1	0	4	2
6	3	2	0
0	0	0	1
1	1	1	0
2	5	0	0
2	0	0	0
1	1	1	2
0	2	0	2
34	31	24	22

1.18

111.

1.3875

11/10/76 11:24 11:00
~~11:00~~ 37
 16474

L Mix

7/13/76
 MT Landuk

2 LFM

1124

7:58

3 HA 26m 11 = 206"

412000

B STOFFOR

LUNCH
 AT 1230

0	1	1
0	2	2
2	1	0
1	2	2
5	3	3
2	4	0
0	2	0
1	2	6
3	2	2
1	0	4
0	1	1
2	0	1
5	2	3
6	2	4
1	0	1
1	3	1
2	2	0
2	3	0
2	1	3
1	0	3
37	33	37

1.22

107

1.78

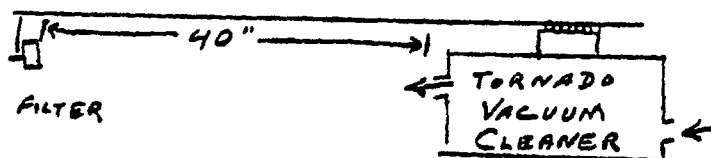
LAB COUNTER

2

12-21-76

1⁰⁰
PM

10.00 MIN



NO ASBESTOS FIBERS
IN AREA.

NEW CLEANER BAG

0

0795.43

Made along with Liberty Mutual tests =,

= + 11:00

5-2-77
Jill Siles
0.003025

11:04
754
190 min
380000

4. - Doctor

Liberty Mutual #1

0	0	0	0	0
0	0	0	0	2
1	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	1	0	0	0
0	2	0	0	1
0	0	1	1	0
1	0	0	3	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
2	0	1	0	0
0	0	0	0	2
0	0	0	0	0
0	0	1	0	0
0	1	0	0	0
1	0	0	0	1
0	3	0	2	0
0	0	1	0	0
5	8	3	7	6

0.216 Fibers/cc

Total: 29
Avg: 0.29

Box car = +

4/27/77
 Sisco
 5-2-77
 J. L. Sisco
 0.003025

11 04

8.11

178 min

356000

1st car

Paul L. Testerman
 Took it.

Sample to life by test # 4

1	0	0	0	1
0	0	0	2	0
0	2	1	1	0
0	0	1	1	0
0	0	0	0	0
2	0	0	0	0
0	0	0	0	0
0	0	0	0	1
2	0	0	0	0
0	0	0	1	0
0	4	0	1	0
0	0	0	1	0
1	0	3	1	0
1	0	0	0	2
0	0	1	0	1
0	5	4	0	0
1	0	0	0	0
0	1	0	0	1
2	2	0	2	0
0	1	0	2	0
10	15	10	13	6

Polystyrene: 0.429 fibers/cc

Others/cc

Total: 54

Avg: 0.54

INSTRUMENT

#3

#4 200 200
 Date 4/27 Time Finished 203
 Time Started 1204
 Elapsed Time 119 min
 Vol Sampled 238000
 Blank
 J. C. Sisco
 0.003025

See

Fibers/cc

Comp 20

Cartridge - to
 LIBERTY #7

0	1	0	0	0
0	0	0	0	1
0	0	1	0	0
1	1	1	0	0
0	0	1	0	0
1	0	0	0	0
0	0	0	0	1
1	0	0	0	1
0	2	0	0	0
0	0	0	0	0
0	7	0	0	0
0	0	0	1	0
1	0	0	0	2
0	0	0	0	0
0	0	0	0	0
1	1	0	0	0
0	0	0	0	3
0	0	0	2	1
1	0	0	0	1
0	0	0	3	0
7	12	6	6	10

Analysis: 0.487 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 41
 Avg: 0.41

ASBESTOS FIBER ANALYSIS

Sample Location WET END #4 MACHINE

Specific Materials/Product 030 WS 90

Pump Rate 1.85 1/min.

Dated Sampled 2-7-79

Time Finished 3:03 PM

Sampled By J. L. Sies

Time Started 11:11 AM

Date Analyzed 4-7-79

Elapsed Time 3:52 232 min

Analyzed By J. L. Sies

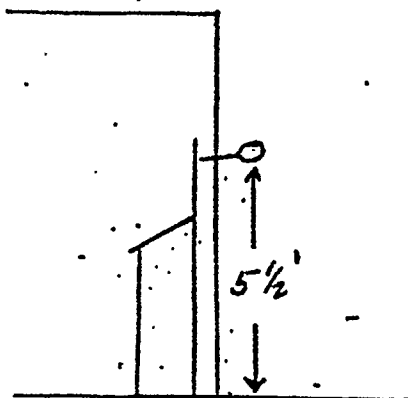
Vol Sampled 429200 cc

Field Area 0.003025

Blank

Remarks: W. GREEN'S SHIFT

Fibers > 5



CLAMPED TO DESK
AT WET END

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1/2	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	1
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
1	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0

1 0 1 1 1/2 1

Analysis: 0.0296 Fibers/cc

Total: 4.5

T.L.V. _____ Fibers/cc

Avg.: 0.045

#2

ASBESTOS FIBER ANALYSIS

Sample Location: #4 WATCHER

Specific Materials/Product: 030 WS90

Pump Rate: 1.85 1/min

Date Sampled: 2-7-79

Time Finished: 3:00 PM

Sampled By: J. U. Sies

Time Started: 11:23 AM

Date Analyzed: 4-7-79

Elapsed Time: 3:37 217 min

Analyzed By: J. U. Sies

Vol. Sampled: 401450 cc

Field Area: 0.003025

Blank:

Remarks: W. GREEN'S SHIFT

Fibers > 5

A. HERNANDEZ

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
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	2	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	1/2	0	0	0
0	0	0	0	0

(3 1/2 0 2 0

Analysis: 0.0387 Fibers/cc

Total: 5.5

T.L.V. Fibers/cc

Avg: 0.0635

ASBESTOS FIBER ANALYSIS

Location WET END #5 MACHINE

Specific Material/Product 030 WSGG

Pump Rate 1.82

1/min

Dated Sampled 2-10-79

Time Finished 2:50

Sampled By J. C. Siles

Time Started 10:24

Is Analyzed 4-7-79

Elapsed Time 4:26 266 min.

Analyzed By J. C. Siles

Vol. Sampled 484120

cc

Field Area 0.003025

Blank

Remarks: W. GREEN'S SHIFT

5 1/2' OFF FLOOR, ON
FRAME ABOVE CLOCK,
SOUTH END OF CONTROLS

Fibers > 5

0	0	0	0	0
0	0	0	0	0
2	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
1	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	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0

4 0 0 0 2

Analysis: 0.035 Fibers/cc

Total: 6

T.L.V. _____ Fibers/cc

Avg.: 0.06

ANALYSIS FIBER ANALYSIS

Location: #5 MACHINE WATCHER
 Specific Material/Product: 040 WS 88 Pump Rate: 2.0 1/min
 Date Sampled: 2-10-79 Time Finished: 2:40 PM
 Sampled By: J. d. Lier Time Started: 10:40 AM
 As Analyzed: 4-8-79 Elapsed Time: 4:00 240 min
 Analyzed By: J. d. Lier Vol. Sampled: 480000 cc
 Field Area: 0.003025 Blank: _____

Remarks: W. GREEN'S SHIFT

Fibers > 5 μ

C. HALE

0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	2	1/2
0	0	0	1	0
0	0	0	5	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1/2	1/2	0
0	0	0	0	0
0	0	0	0	1/2
0	1	0	0	0
0	0	0	0	0
0	0	0	3	0
1	0	0	0	0
0	0	0	0	0
0	1/2	0	2	0
0	0	1	0	0

2 1 1/2 2 1/2 8 1/2 1

Analysis: 0.091 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 15.5
 Avg.: 0.155

ASBESTOS FIBER ANALYSIS

Sample Location: 44 MIXING SYSTEM (OLD MILL)
 Specific Materials/Product: 030 WS 64 Pump Rate: 1.88 1/min
 Date Sampled: 2-11-79 Time Finished: 1:31 pm
 Sampled By: J. C. Siles Time Started: 9:31 AM
 Date Analyzed: 4-8-79 Elapsed Time: 4:00 240 min
 Analyzed By: J. C. Siles Vol. Sampled: 4512.00 cc
 Field Area: 0.003025 Blank: _____

Remarks: W. GREEN'S SHIFT

MIXER; A. LEPPA

2 HRS. ON DUTY
2 HRS. OFF.

Fibers ≥ 5 μ

1	2 1/2	1 1/2	
1	4 1/2	2 1/2	
2	4	3	
0	4 1/2	1 1/2	
0	3	2 1/2	
2	0	2	
3	1	0	
2	1 1/2	1 1/2	
1 1/2	1 1/2	2	
3	1 1/2	2 1/2	
1 1/2	1 1/2	2	
1 1/2	2 1/2	1	
1	1 1/2	1	
1	2	1 1/2	
0	1	3	
1 1/2	3	2 1/2	
1 1/2	3	2 1/2	
2 1/2	2	0	
2 1/2	0	0	
2	0	1	

27% 35% 33%

Analysis: 1.01 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 96.5
 Avg.: 1.61

ANISTON FIBER ANALYSIS

Location #5 MACHINE WATCHER
 Specific Materials/Product 030 WSR Pump Rate 1.85 1/min
 Date Sampled 2-16-79 Time Finished 2:02 PM
 Analyzed By J. L. Sies Time Started 9:45 AM
 Date Analyzed 4-8-79 Elapsed Time 4:17 257 min
 Analyzed By J. L. Sies Vol. Sampled 475450 cc
 Field Area 0.003025 Blank

Remarks: R. MANN'S SHIFT

J. GRAHAM

Fibers > 5

0	0	1	1 1/2	1 1/2
0	1 1/2	0	1	1 1/2
1	0	1	0	0
2	1	0	1	0
1	1	0	0	0
1 1/2	0	0	0	0
1 1/2	1 1/2	0	0	0
1 1/2	1 1/2	0	0	0
1 1/2	0	0	3	0
1	1 1/2	0	0	0
0	1 1/2	0	0	0
0	1 1/2	0	0	1
0	0	1 1/2	0	0
0	0	1	1	1
2	1	0	0	0
0	1 1/2	1	0	0
0	0	0	0	0
1 1/2	0	1	0	0
0	0	0	0	1
0	1	1 1/2	0	0

12 1/2 11 1/2 6 7 1/2 6

Analysis: 0.26 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 43.5
 Avg.: 0.435

REPORT FILED APR 7 1962

Sample Location WET END #5 MACHINE
 Specific Materials/Product 030 WS 88 Pump Rate 1.85 l/min
 Date Sampled 2-16-79 Time Finished 1:56 PM
 Sampled By J. C. Sies Time Started 9:50 AM
 Date Analyzed 4-9-79 Elapsed Time 4:06 246 min
 Analyzed By J. C. Sies Vol. Sampled 455100 cc
 Field Area 0.003025 Blank

Remarks: R. MANN'S SHIFT

Filters: 5

5 1/2' OFF FLOOR, ON
FRAME ABOVE CLOCK.
SOUTH END OF
CONTROLS

[illegible]

0 5 11 1 . 1

Analysis: 0.016 Filters/cc
T.L.V Fibers/cc

Total: 2.5
Avg.: 0.025

वि. वि. ३३ :

Fiber 5-5

L. TESTERMAN
LIFT TRUCK OPERATOR

[illegible]

2 i 1

Total: 4
Avg.: 0.04

ASBESTOS FIBER ANALYSIS

Location: BLDG #60
 Specific Material/Product: 040 VS 88 Pump Rate: 1.85 l/min
 Date Sampled: 2-27-79 Time Finished: 1:36 PM
 Sampled By: J. L. Sikes Time Started: 9:04 AM
 Date Analyzed: 4-9-79 Elapsed Time: 4:32 272 min
 Analyzed By: J. L. Sikes Vol. Sampled: 503200 cc
 Field Area: 0.003025 Blank: _____

Remarks:

W. GREEN'S SHIFT

Fibers > 5

ASBESTOS MIXING

S. OWEN

0	0	0	0	1
0	0	1/2	0	1/2
0	0	0	0	0
0	0	0	0	0
1	3	0	0	1
0	0	0	1	0
1	0	0	0	0
0	1	0	0	1/2
0	0	0	0	0
0	0	0	0	0
0	1/2	0	0	0
0	0	0	1/2	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1/2	1
0	0	1	0	0
1 1/2	0	0	2	0
0	0	0	0	0
0	1	0	0	0

4 1/2 5 1/2 1 1/2 5 3

Analysis: 0.11 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 19.5

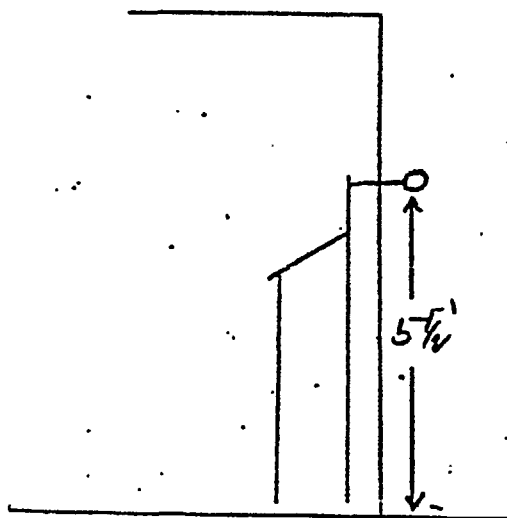
Avg.: 0.195

ASBESTOS FIBER ANALYSIS

Sample Location WET END #4
 Specific Materials/Product WS 88 Pump Rate 1.85 l/min.
 Date Sampled 3-5-79 Time Finished 3:06
 Sampled By J. C. Sies Time Started 10:44
 Date Analyzed 4-10-79 Elapsed Time 4:22 262 min
 Analyzed by J. C. Sies Vol Sampled 484700 cc
 Field Area 0.003025 Blank

Remarks: R. MANN'S SHIFT
WS 88 START-UP

Fibers > 5 μ



CLAMPED TO DESK
 AT WET END

0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	1/2	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
1/2	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	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	0	0	0

1/2 1/2 1 1 0

Analysis: 0.023 Fibers/cc
 T.L.V Fibers/cc

Total: 4
 Avg.: 0.04

SECRET

Blank.

Avg.: 0.055

ASBESTOS FIBER ANALYSIS

Location # 4 WATCHER

Specific Materials/Product WS 90

Pump Rate 1.85 l/min.

Dated Sampled 3-6-79

Time Finished 1:52 PM

Sampled By J. Ch. Liss

Time Started 8:47 AM

Date Analyzed 4-12-79

Elapsed Time 5:05 305 min

Analyzed By J. Ch. Liss

Vol. Sampled 564250 cc

Field Area 0.003025

Blank

Remarks:

R. MANNS SHIFT

Fibers > 5

G. MARKEL

USED HAMMER

MILL 10 MIN.

0	0	0	0	0
1/2	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1 1/2	1	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	1	1	0
0	1/2	0	0	0
0	0	0	1	0
0	0	0	0	1/2
1	0	1/2	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	0	0

1 1/2 2 2 1/2 3 1/2

Analysis: 0.048 Fibers/cc

Total: 9.5

T.L.V. Fibers/cc

Avg.: 0.095

ASBESTOS FIBER ANALYSIS

Sample Location: #4 MIXING SYSTEM (OLD MILL)
 Specific Materials/Product: WS 90 Pump Rate: 1.85 1/min
 Date Sampled: 3-6-79 Time Finished: 1:36 PM
 Sampled By: J. C. Liles Time Started: 8:56 AM
 Date Analyzed: 4-12-79 Elapsed Time: 4:40 280 min
 Analyzed By: J. C. Liles Vol. Sampled: 518000 cc
 Field Area: 0.003025 Blank: _____

Remarks:

R. MANN'S SHIFT

MIXER - R. FOBLE.

2 1/2 HRS. MIXING

Fibers > 5 μ

2 1/2	1	3 1/2	1	1 1/2
1 1/2	1 1/2	2	1	2
1 1/2	2	1 1/2	2	1
2 1/2	0	0	0	1 1/2
1 1/2	1	1	1 1/2	1 1/2
3 1/2	3	3 1/2	0	1 1/2
1	2	1 1/2	0	1
0	1	0	1 1/2	2
2 1/2	3 1/2	2 1/2	3	1 1/2
2 1/2	1 1/2	2 1/2	3 1/2	1 1/2
2 1/2	1	1	2	0
0	1	2	4 1/2	1 1/2
0	1	1	1	1 1/2
0	1 1/2	2	1	2
1 1/2	3	3	1 1/2	2
2	3	1 1/2	2	1
1 1/2	2	1	1	1 1/2
1 1/2	1	2 1/2	3	0
1	1	1 1/2	2	2 1/2
2 1/2	1	3 1/2	1 1/2	1 1/2

28 1/2 31 35 32 23 1/2

Analysis: 0.818 Filters/cc

T.L.V. _____ Fibers/cc

Total: 150

Avg.: 1.50

ASBESTOS FIBER ANALYSIS

Sample Location ASBESTOS UNLOADING (OLD MILL)
 Specific Material/Product #5 Pump Rate 1.85 l/min.
 Date Sampled 3-7-79 Time Finished 2:32 PM
 Sampled By J. L. Siler Time Started 1:00 PM
 Date Analyzed 4-1-79 Elapsed Time 1:32 92 min
 Analyzed By J. L. Siler Vol. Sampled 170200 cc
 Field Area 0.003025 Blank

Remarks:

L. TESTER MAN
LIFT TRUCK OPERATOR

Fibers > 5

1 CAR LOAD OF

#5 FIBERS

0	0	0	0	1
0	0	0	0	1/2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	1/2
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	1/2	0
0	0	0	0	0
0	0	0	0	1
0	0	1	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	1/2
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0

1 1 1 2 1/2 5 1/2

Analysis: 0.18 Fibers/cc

T.L.V. _____ Fibers/cc

Total: 11

Avg.: 0.11

ASBESTOS FIBER ANALYSIS

Location: ASBESTOS UNLOADING (OLD MILL)
 Specific Materials/Product: #5 Pump Rate: 1.85 l/min
 Date Sampled: 3-7-79 Time Finished: 2:33 PM
 Sampled By: J.C. Sies Time Started: 1:00 PM
 Date Analyzed: 4-1-79 Elapsed Time: 1:33 93 min
 Analyzed By: J.C. Sies Vol. Sampled: 17205-0 cc
 Field Area: 0.003025 Blank: _____

Remarks:

R. MILLER (HELPER)

Fibers > 5

1 CAR LOAD OF
#5 FIBERS

0	0	0	0	0
0	0	1/2	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	2 1/2	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	1
0	0	0	0	0
4	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	1
0	0	0	0	0
0	0	0	0	0

5 2 1/2 1/2 0 2

Analysis: 0.16 Filters/cc
 T.L.V. _____ Fibers/cc

Total: 10
 Avg.: 0.1

ASBESTOS FIBER ANALYSIS

Sample Location: DRY END #5 MACHINE
 Specific Materials/Product: 030 WSP8 Pump Rate: 1.85 l/min.
 Date Sampled: 3-13-79 Time Finished: 1:49 PM
 Sampled By: J. C. Sies Time Started: 8:43 AM
 Date Analyzed: 4-12-79 Elapsed Time: 5:06 306 min
 Analyzed by: J. C. Sies Vol Sampled: 5661000 c.c.
 Field Area: 0.003025 Blank:

Remarks:

S. RIFFLE'S SHIFT

W. CRONE WATCHER

Fibers > 5

0	0	0	0	0
0	0	0	0	0
4	0	0	0	0
0	0	2	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	1/2	1/2	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	1/2
1	1/2	0	0	0
0	0	1/2	0	0
0	0	0	0	0
0	1	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1/2	0	0	0	0
0	0	0	0	0

3 2 3 2 1/2

Analysis: 0.052 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 10.5
 Avg.: 0.105

18

AMMOS FILER ANALYSIS

Location WET END #5 MACHINE
 Specific Material/Product 030 WS 88 Pump Rate 1.83 1/min
 Date Sampled 3-13-79 Time Finished 1:44 PM
 Sampled By J. L. Sies Time Started 8:50 AM
 Date Analyzed 4-18-79 Elapsed Time 4:54 294 min
 Analyzed By J. L. Sies Vol. Sampled 543900 cc
 Field Area 0.003025 Blank

Remarks: S. RIFFLE'S SHIFT
5 1/2' OFF FLOOR, ON
FRAME ABOVE CLOCK.
SOUTH END OF CONTROLS

Fibers > 5

1	0	1/2	0	0
0	0	0	0	0
0	0	0	1/2	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1/2
0	1/2	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	1
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	1/2	0	0	0
0	0	0	1/2	0
0	0	0	0	0

3 2 1/2 1 3 1/2

Analysis: 0.052 Fibers/cc Total: 10
 T.L.V. _____ Fibers/cc Avg.: 0.1

ASBESTOS FIBER ANALYSIS

Sample Location DRY END #4 MACHINE
 Specific Materials/Product WS 90 Pump Rate 1.85 l/min.
 Date Sampled 3-14-79 Time Finished 2:29 PM
 Sampled By J. C. Sies Time Started 8:41 AM
 Date Analyzed 4-18-79 Elapsed Time 5:48 348 min
 Analyzed by J. C. Sies Vol Sampled 643800 cc
 Field Area 0.003025 Blank

Remarks:

S. RIFFLE'S SHIFT

Fibers $\geq 5 \mu$

J. ARBAUGH - WATCHER

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1 1/2
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
1	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0

3 0 1 0 1 1/2

Analysis: 0.024 Fibers/cc
 T.L.V Fibers/cc

Total: 5.5
 Avg.: 0.055

A20

ASH TEST FIBER ANALYSIS

Sample Location WET END #4 MACHINE

Specific Materials/Product WS 90

Pump Rate 1.85 1/min.

Dated Sampled 3-14-79

Time Finished 2:24 PM

Sampled By J. C. Lier

Time Started 8:47 AM

Date Analyzed 4-18-79

Elapsed Time 5:37 337 min.

Analyzed By J. C. Lier

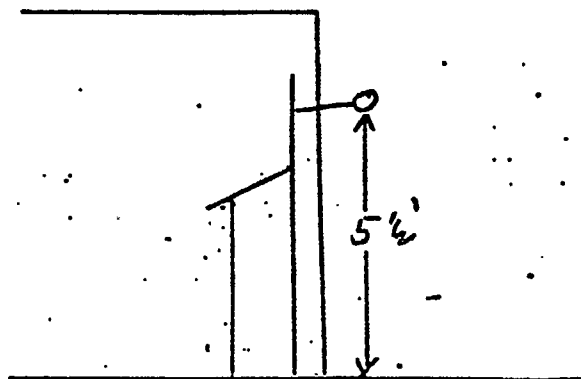
Vol Sampled 623450 c.c.

Field Area 0.003025

Blank

Remarks: S. RIFFLE'S SHIFT

Fibers > 5



CLAMPED TO
DESK AT WET END

0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	2	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1/2	0	1	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0

1 1/2 5 1 1

Analysis: 0.039 Fibers/cc

Total: 8.5

T.L.V. _____ Fibers/cc

Avg: 0.085

ASBESTOS FIBER ANALYSIS

Location: #4 MIXING SYSTEM (OLD MILL)
 Specific Materials/Product: WS 90 Furn Date: 1.85 1/min
 Date Sampled: 3-15-79 Time Finished: 2:04 PM
 Sampled By: J. C. Liles Time Started: 9:22 AM
 Date Analyzed: 4-16-79 Elapsed Time: 4:42 282 min
 Analyzed by: J. C. Liles Vol Sampled: 521.700 cc
 Field Area: 0.003025 Blank:

Remarks: S. RIFFLE'S SHIFT

Fibers > 5

K. WAGNER

TOTAL OF 1 1/2 HRS
MIXING

1 1/2	0	0	1 1/2	1
1	1 1/2	1 1/2	0	1 1/2
0	2 1/2	1 1/2	0	0
1	1	1 1/2	0	0
2	2 1/2	0	0	0
0	0	0	0	0
0	1	1 1/2	1 1/2	1 1/2
1 1/2	0	0	0	1 1/2
2	3 1/2	0	2	3
1	1 1/2	0	1 1/2	3 1/2
0	0	0	1	0
2	0	0	1	1 1/2
1 1/2	0	0	0	0
2	0	2 1/2	2	1 1/2
1	0	0	1	1 1/2
0	0	0	1	0
1	1 1/2	1 1/2	1	1 1/2
2	1 1/2	1	1 1/2	1 1/2
4	0	1 1/2	1	0
1	0	1	2	0

23 1/2 15 1/2 10 1/2 15 20 1/2

Analysis: 0.46 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 85
 Avg.: 0.85

ASBESTOS FIBER ANALYSIS

Sample Location: BLDG #60

Specific Materials/Product: WS 88

Pump Rate: 1.85 11

Dated Sampled: 3-15-79

Time Finished: 1:43 PM

Sampled By: J. L. Pies

Time Started: 9:52 AM

Date Analyzed: 4-16-79

Elapsed Time: 3:51 231 min

Analyzed By: J. L. Pies

Vol Sampled: 427.350 cc

Field Area: 0.003025

Blank:

Remarks: S. RIFLE'S SHIFT

Fibers > 5

ASBESTOS MIXING

R. FRANKLIN

0	1 1/2	0	1 1/2	0
0	0	1	0	0
1 1/2	1	1 1/2	0	0
0	0	0	0	0
0	0	0	1	0
1 1/2	0	0	0	0
0	0	1/2	0	1
0	0	0	1	0
0	0	0	0	1 1/2
1/2	0	0	1 1/2	0
0	1 1/2	0	0	0
0	0	0	0	1/2
0	0	1/2	1/2	0
1	1 1/2	0	0	0
0	0	2	1 1/2	0
1 1/2	0	2	0	0
0	1 1/2	0	0	1 1/2
0	0	0	2 1/2	0
0	0	1	0	0
0	0	1/2	1	0

5 5 9 8 5

Analysis: 0.21 Fibers/cc

Total: 32.5

T.L.V. Fibers/cc

Avg: 0.325

ASBESTOS FIBER ANALYSIS

Sample Location: BLDG #60
 Specific Materials/Product: SEE BELOW
 Date Sampled: 3-22-79
 Sampled By: J. L. Sikes
 Date Analyzed: 4-16-79
 Analyzed by: J. L. Sikes
 Field Area: 0.003025

Pump Rate: 1.85 l/min
 Time Finished: 3:41 PM
 Time Started: 12:49 PM
 Elapsed Time: 2:51 17 min
 Vol Sampled: 316.350 cc
 Blank: _____

Remarks:

UNLOADING ASBESTOS
 B. ROOP - HELPER

1 LOAD 7 D1
 1 LOAD 7MS7
 1 LOAD #5

0	0	0	0	0
1	1	0	1/2	1/2
1/2	0	1/2	0	0
0	1	0	0	0
1/2	0	0	0	0
0	0	0	2	0
1	0	0	0	1
0	1	0	0	1
1	0	0	0	0
0	0	0	1/2	0
1/2	0	0	0	0
0	0	0	0	1/2
1/2	0	0	1/2	1/2
0	0	1	0	0
0	0	0	0	0
0	1/2	0	0	1
0	0	0	1	0
0	0	1/2	0	0
0	0	0	1	0
0	0	0	0	0

6 4 1 6 5

Analysis: 0.237 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 26.5
 Avg: 0.265

ASBESTOS FIBER ANALYSIS

Sample Location: LAB

Specific Materials/Product: SEE BELOW

Pump Rate: 1.83 1/min

Dated Sampled: 4-22-79

Time Finished: 3:58 PM

Sampled By: J. C. Lier

Time Started: 1:13 PM

Date Analyzed: 4-24-79

Elapsed Time: 2:45 165 min

Analyzed by: J. C. Lier

Vol Sampled: 305.50 c.c.

Field Area: 0.003025

Blank: 7

Remarks: D. BLIZZARD

Fibers > 5

8 ASBESTOS SAMPLES.
IN ROTAP

6 - #5
1 - 7MS1
1 - 6D04

4	0	12 1/2	
1/2	1	12	
4	3	13 1/2	
1	4	11 1/2	
5 1/2	1/2	1	
2 1/2	1	0	
3	1	1 1/2	
2 1/2	2 1/2	4	
2	1	1 1/2	
2	2	1 1/2	
1 1/2	0	1	
6	1	2 1/2	
1 1/2	1	1 1/2	
1 1/2	3 1/2	1	
3	2	13	
2 1/2	4	2 1/2	
2 1/2	3	1 1/2	
3 1/2	3 1/2	0	
2	3	1 1/2	
1	2 1/2	2 1/2	

44.0 39.5 30.5

Analysis: 1.76 Fibers/cc

Total: 114

T.L.V. _____ Fibers/cc

Avg.: 1.9

GREENS SHIFT

		SHEET#	FIBERS/CC	DATE SAMPLE
DRY END #5	M. SHERRIL	3	0.365	2-21-8
	J. GRAHAM	12	0.05	8-6-8
	J. DANNER	13	0.02	8-6-8
WET END #5		19	0	9-19-8
BLDG #60	O. BROTHERS	8	0.0386	8-4-8
	E. EVANS	9	0.16	8-4-8
DIXONS SHIFT				
DRY END #5	A. DELL	14	0.034	9-3-8
WET END #5	S. JONES (SLIDE DIRTY)	15	0.102	9-3-8
		23	0.037	9-25-8
BLDG #60	D. WAREHIME	21	0.047	9-24-
	JIM LONG	22	0.087	9-24-
RIFLES SHIFT				
DRY END #5	J. ARBAUGH	16	0.019	9-11-8
WET END #5	J. STEPHAN	17	0.03	9-11-8
		25	0.005	10-20-
BLDG #60	G. CROUSE	26	0.086	10-22-
	W. FERGUSON	27	0.096	10-23-

		FIBERS/cc	
1. DEWANS OFFICE	1	0.059	1-21-80
DEWANS OFFICE	2	0.05	1-21-80
ROTAPS G. BRINKMAN	20	0.427	9-22-8
WILLIAMS DISINTEGRATOR RESPIRATOR USED G. BRINKMAN	18	3.06	10-8-8
UNLOADING ASBESTOS N. BARNES	10	4.85	8-5-8
UNLOADING ASBESTOS N. BARNES	24	0	10-20-8
UNLOADING ASBESTOS L. TESTERMAN	11	0.133	8-5-8
# 7 LAGOON	4	0.00196	7-14-8
# 6 AND #7 LAGOONS	5	0.0118	7-14-8
# 6 LAGOON	6	0.0116	7-15-8
# 6 LAGOON	7	0.0319	7-15-8

Vin.

15.25

12:50 PM

2,3,5 (155 min)

310 000 cc

Blank

Remarks: day after new floor was installed
"STAND" Fibers 5

8" ABOVE FLOOR

[illegible]

3 · 1 1/4

55.

0.053

no asbestos

7078.33

695659

121.7

3-80
✓

DRY END #5 MACHINE

WS 88	2.0
2-21-80	11.19
J.I. SIES	9.19
8-26-80	2 hrs = 120 min
J.I. SIES	240 000
0.003025	

M. Sherrill watcher 3-H

W. Greene ... 1/4

Door not opened for
Broke.

265.05
 0.31×855

 0.003025×240000
 726
 0.365

0	0	0	0	0
0	0	1	1	0
0	0	0	0	0
0	2	0	0	1 1/2
1	0	1 1/2	0	0
0	0	0	1	0
1 1/2	0	0	0	1
0	1 1/2	0	0	0
0	0	0	1 1/2	1 1/2
0	0	1	0	0
1 1/2	0	1	0	0
1 1/2	0	0	0	1 1/2
0	1	0	1 1/2	0
0	0	0	0	1 1/2
2 1/2	0	0	0	0
0	0	0	0	2
1	0	1 1/2	0	1
1 1/2	0	0	2	0
0	0	0	0	1
6	5	6	5	9

31
0.31

7339.4
7232.31

4

4.275

$$0.005 \times 855$$

$$0.003025 \times 720000$$

2178

0.00196

5

25.65

$$0.03 \times 855$$

$$0.003025 \times 720.000$$

2178

0.0118

6

25.65

$$0.03 \times 855$$

$$0.003025 \times 728000$$

2202.2

0.0116

7

68.4

$$0.08 \times 855$$

$$0.003025 \times 708000$$

2141.7

0.0319

$$\begin{array}{r}
 4.275 \\
 0.005 \times 855 \\
 \hline
 0.003025 \times 720000 \\
 2178 \quad 0.00196
 \end{array}$$

$$\begin{array}{r}
 25.65 \\
 5 \quad 0.03 \times 855 \\
 \hline
 0.003025 \times 720000 \\
 2178 \quad 0.0118
 \end{array}$$

$$\begin{array}{r}
 25.65 \\
 6 \quad 0.03 \times 855 \\
 \hline
 0.003025 \times 728000 \\
 2202.2 \quad 0.0116
 \end{array}$$

$$\begin{array}{r}
 68.4 \\
 7 \quad 0.08 \times 855 \\
 \hline
 0.003025 \times 708000 \\
 2141.7 \quad 0.0319
 \end{array}$$

BENDIX

#7 LAGOON

7-14-80

J.I. SIES

8-6-80

J.I. SIES

0.003025

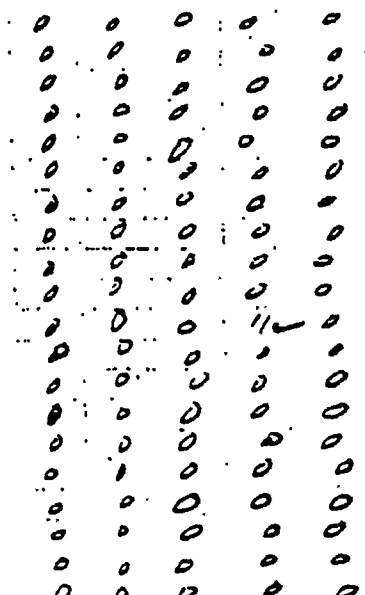
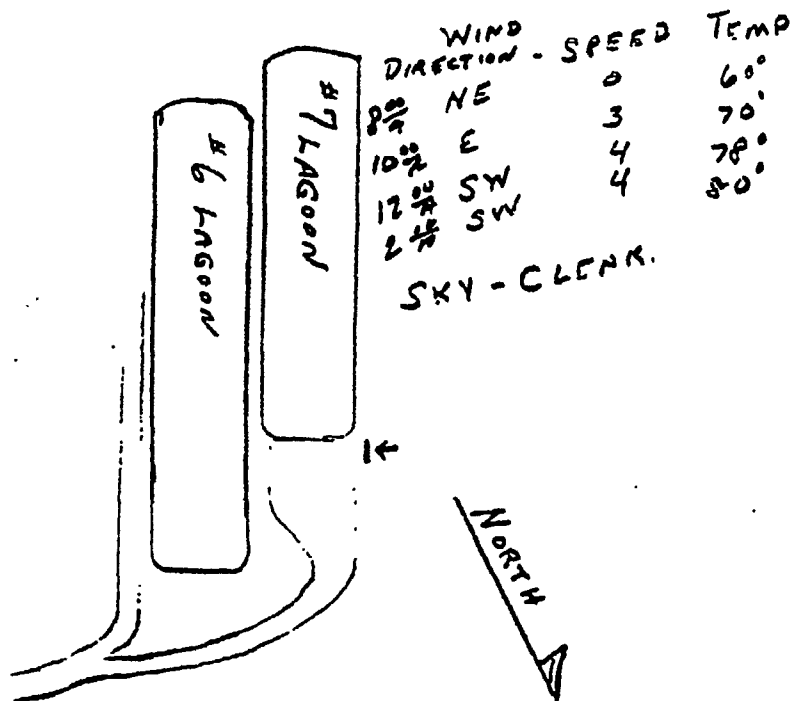
2.0

15 $\frac{20}{PM}$

9 $\frac{20}{PM}$

6 HRS = 360 min

720000



0.00196

0.5

0.005

WILLSON
✓

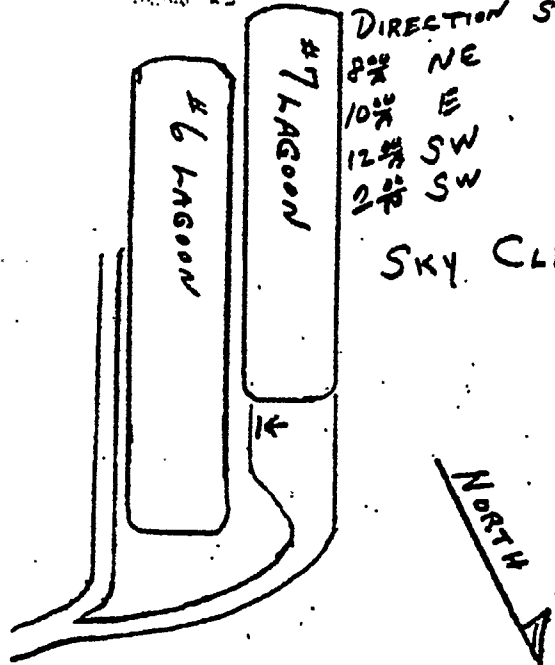
WATER SAMPLING ANALYSIS

#6 LAGOON AND #7 LAGOON

DATE: 7-14-80
 ANALYST: J.I. SIES
 TIME: 8-6-80
 LOCATION: J.I. SIES
 ID: 0.003025

TEMP: 20
 TIME: 15:25
 TIME: 9:28 AM
 DURATION: 6 HRS = 360 min
 VOLUME: 720 000
 SITES:

Remarks: WIND DIRECTION SPEED TEMP
 8:00 NE 0 60°
 10:00 E 3 70°
 12:00 SW 4 78°
 2:00 SW 4 80°
 SKY CLEAR



Fibers > 5 μ

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

2 1

Analysis: 0.0118 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 3
 Avg.: 0.03

✓

7-15-80

J 1 S, E 3

8-6-80

4.5.55

0003025

2.0

14 40

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

elapsed time $6 \frac{1}{2} \times 4 = 364$

wt Sampled 728.000

Blank.

[illegible]

WIND
DIRECTION

SPEED TEMP

5K7

CLEAR

Fibers: 5

Part

PART

part

228

E

1

67

18

5

1

74

744

4

8.

127

1

20

2节

[illegible]

Analysis: 0.0116

iberis/cc

Total: 2

I.L.V

fibers/cc

Aug 20 03

1-0
WILLSON
✓

#6 LAGOON

7-15-80

J.I. SIES

8-6-80

J.I. SIES

0.003025

2.0

14:40

8 4/6

5 HRS. 54 MIN. = 3540

708000

WIND DIRECTION SPEED TEMP SKY

80% E

1

67

CLEAR

10% S

1

74

PART

12% S

6

81

PART

20% E

8

88

PART

Fibers > 5 =

| | | | | |
|---|-----|-----|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1/2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |

3 - 1/2 2 0 1

Analysis: 0.0319

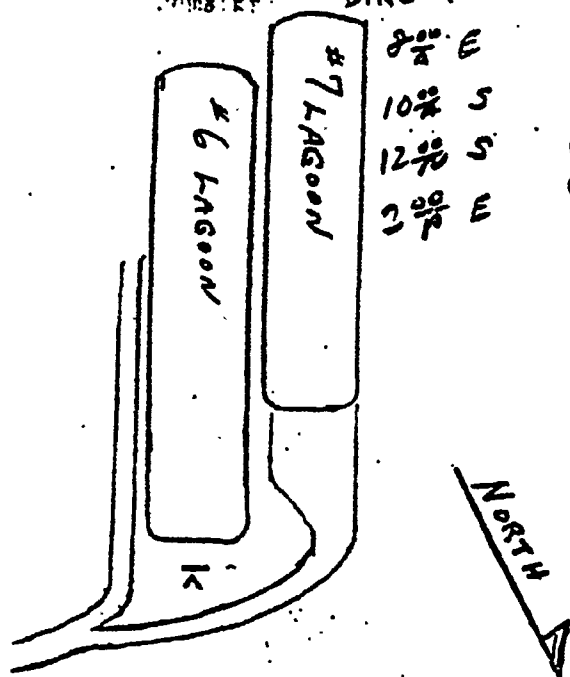
Fibers/cc

T.L.V

Fibers/cc

Total: 8

Avg: 0.08



Wilson

Bldg 60
WS 88

~~8-4-80~~
~~JL Siler~~
9-16-80
~~JL Siler~~
0.003025

2
14.07

9:06

5 hrs - 1 min 30/mi
602000

Greens shift

E. EVANS

WS 88

#5

7-11-51

7-D5

6-D04

10 pulper batches

+ 90°

110 - breeze

0.16

299.25
0.35 x 855

0.003025 x 602000

1821.05

| | | | | |
|-------|-------|---|-------|-------|
| 2 | 1 | 0 | 1 | 0 |
| 1/2 | 2 1/2 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 1 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 3 1/2 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 1 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 1/2 |
| 0 | 0 | 2 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 |
| 8 1/2 | 9 1/2 | 6 | 8 1/2 | 2 1/2 |

35
0.35

WILLSON

Bldg 60

PBS - 7MS7

8-5-80

John Lee

9-7-80

John Lee

0.003025

2
12 105
13:45

8:47

4 hrs 8 min 298 mi

596 000

N. BARNES
Help inland asbestos

Trucks - 0

Cars. 1-PBS
1-7MS7

slight freeze

8742,375

10.225 x 855

0.003025 x 596000
1802.9

4.85

8.3.9.

2

17.5

4

18.5

9

16.5

15

12

6

5

8

17

9

8.5

11

14

6.5

5

11

204.5

204.5

10.225

✓

2.0
13:57

9:38

4/19/19

259

5/8000

W. GREEN'S SHIFT

10 - 168" rolls

85.3

0.10 x 85 J

0.10
0.003025 x 518000

1710.7

0.05

10

0.10

[illegible]

#5 DRY END

WSFF 205

8-6-80

~~John Doe~~
9-6-8

9-6-80

J. L. Pies
222222

0.003025

20

13:52

9:32

$$4 \frac{1}{2} \times 3 \text{ min} = 270 \text{ min}$$

540 000

J. DANNER - 3RD FLAND

W. GREENS SHIFT

10 - 168" rolls.

34.2

$$0.04 \times 855$$

$0.04 \times 0.003025 \times 540,000$
 11.335

17
16 33.5

0.0209

4

0.04

[illegible]

#5 dry end.
WS 88

9-3-80

J. J. Lins

10-13-80

J. C. Liss
2003025

2.0

14:54

10.01

4453m 293min

586 000

S. JONES 2nd hand.

DIXONS SHIFT

Slide extremely dirty, small randomly

shaped pieces of dirt - a few might meet the 3-1 aspect ratio, but nothing in the slide resembles asbestos fibers

181.1

$$0.22 \times 855 = 181.1$$

0.003025×586000

1772.65

0,102

[illegible]

22

0.22

LAB

9-17-80
Jcl Linc
10-8-80
Jcl Linc
0,003025

2
3:58
3:16
42
84000

9-#5 14-
1-7MS9 G. Brankman
3-7MS1
1-7D1 Vac on

Exh fan off.

5 min clean up.

USING.

3M-8710 DUST RESPIRATOR

778.05
0.91 x 853
0.003025 x 84000 254.1
3.06

| | | | | |
|-------|-------|-------|-------|--------|
| 1 | 0 | 0 | 2 | 5 1/2 |
| 0 | 2 1/2 | 0 | 0 | 3 |
| 1 | 0 | 0 | 0 | 1 1/2 |
| 0 | 1 1/2 | 3 1/2 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 |
| 1 1/2 | 2 | 2 | 2 | 0 |
| 1 | 0 | 1 1/2 | 2 | 0 |
| 1 | 1 1/2 | 0 | 1 1/2 | 0 |
| 2 1/2 | 0 | 0 | 2 | 1 |
| 2 | 0 | 0 | 0 | 1 |
| 2 | 2 1/2 | 0 | 1 1/2 | 2 |
| 2 | 0 | 3 1/2 | 0 | 1 |
| 0 | 1 1/2 | 0 | 0 | 0 |
| 1 1/2 | 0 | 0 | 0 | 1 1/2 |
| 0 | 0 | 1 1/2 | 0 | 0 |
| 1 1/2 | 0 | 0 | 1 1/2 | 3 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 4 | 2 | 0 | 0 |
| 2 | 1 | 1 1/2 | 0 | 1 |
| 0 | 2 | 0 | 2 | 0 |
| 18 | 19.5 | 21.5 | 13.5 | 18 1/2 |

91
0.91

WET END #5 MACHINE

030 WS 88 new base

9-19-82

~~10-13-~~

10-13-20

0.003025

0.003025

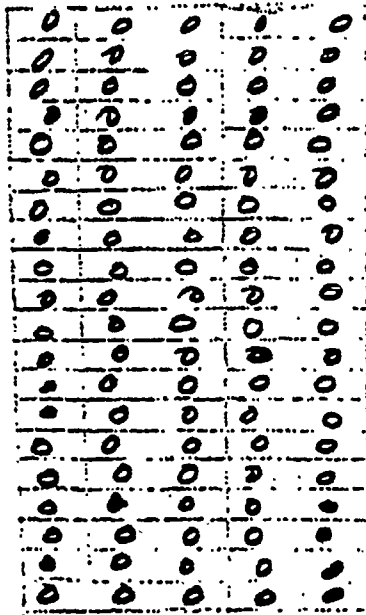
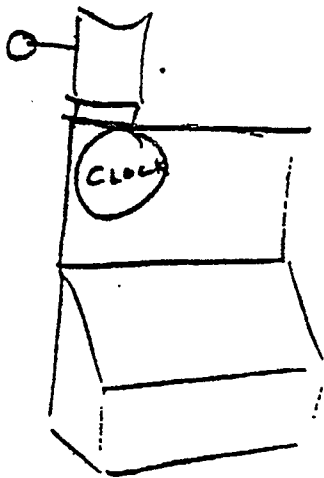
Date: 12/10/4
 Time: 13:44

8:49

46 55 mi 295 mi

590 000

GREEN'S SHIFT



LAB

9-22.80
J. L. S.
 10-18.80
J. L. S.
 0.003025

15262
~~16102~~
 13:33
 2442 9. min
 298000

G. Brinkman
 Run Rotap
 6 - #5

384.75
 0.45 x 855

 0.003025 x 298000
 901.45

0.427

| | | | | |
|------|-----|----|-----|-----|
| 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 0 | 0 |
| 0 | 0 | 2 | 0 | 0 |
| 1/2 | 1/2 | 0 | 2 | 0 |
| 0 | 0 | 0 | 2 | 0 |
| 0 | 0 | 1 | 2 | 0 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 2 | 2 |
| 1 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 3 |
| 2 | 0 | 1 | 1 | 0 |
| 1 | 1 | 1 | 1/2 | 0 |
| 2 | 0 | 3 | 0 | 0 |
| 0 | 1/2 | 2 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 | 1/2 |
| 10.5 | 3 | 11 | 15 | 5.5 |

45
 0.45

21-0
Bending

Bldg 60

WS&F N05

2

9-24-80

Jds.

10-18-80

Jds.

0.003025

14:18

9.05

5h13

312min

626 000

Dave Warehime

Dixons shift

17 pulper line

WS&F WND5

89.775

0.105 x 855

0.003025 x 626000

1893.65

0.047

| | | | | |
|---|-----|---|-----|-----|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 1/2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1/2 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 4 | 1.5 | 1. |

10.5

0.105

Willis

ANALYSTS

Bldg #60

WS88N05

Temp 2

9-24-80

Time 14:16

Jellies

9:08

10-20-80

5hr 8m 308m

Jellies

616000

0.003025

Jim Long

Dixon's shift

17 pulper loads

WS88W105

16.45

0.19 x 855

0.003025 x 616000

18634

| | | | | |
|---|-------|---|-------|-------|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 1/2 | 0 |
| 0 | 0 | 2 | 0 | 1 |
| 1 | 0 | 0 | 1 1/2 | 0 |
| 0 | 0 | 0 | 2 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 1/2 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 3 | 0 | 0 |
| 2 | 2.5 | 5 | 4 | 5.5 |

0.087

19

0.19

Bendi

Wet end to 5

2004 0010 14 2
 15 92
 15 32

1100 59-1,000 ~~+5~~ 32

Time Started: 9:51

1200000 5hr 41min 39.1

682000

0003025

1234

[illegible]

$$\begin{array}{r} 76.95 \\ 0.09 \times 855 \\ \hline 0.003025 \times 682000 \\ 2063.05 \end{array}$$

... 0,037

7. 10. 1954

[illegible]

11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847

total. 9

net . 0.09

25-80

b

Wallace

2
14.76
15.46

10:23

4/4.3m (283 m)

566000

Wet end #5

030W588

10-20-80

J. L. L.

12-8-80

J. L. L.

0.003025

Riffles shift

same

8.55

0.01 x 855

0.003025 x 566000

1712.15

0.005

| | | | | |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 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 | 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 | 0 | 0 | 0 |

1

1

0.01

Ben

Bldg 60

WS 88

10-22-80

~~J. L. Jones~~

12-2-80

~~J. L. Jones~~

0.003025

2

14:58

8:41

6:17 (377 min)

754000

G. Crouse
Riffles shift

196.65

0.23 x 255

0.003025 x 754000
2280.85

0.086

| | | | | |
|---|-----|-----|-----|-----|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 1 | 1/2 | 1/2 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 1 | 1/2 | 0 | 1/2 |
| 0 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 2 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1/2 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 1/2 |
| 0 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 4 | 35 | 85 | 4 | 3 |

23

0.23

Bldg 60
 10-23-80
 J. L. Sies
 12-8-80
 J. L. Sies
 0.003025

Pump, etc. 2
 Time finished 14:58
 Time started 9:45
 Distance 5h 13m (313)
 Vol. 626000
 Date

W. FERGUSON
 Riffer shift

179.55
 0.21 x 855
 0.003025 x 626000
 1893.65

| | | | | |
|-------|-------|---|-------|-----|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1/2 |
| 0 | 2 1/2 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 1 1/2 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 1/2 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 3 1/2 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 1 1/2 | 0 | 2 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 3 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 5.5 | 5.5 | 2 | 3.5 | 4.5 |

0.096

21
 0.21

ASBESTOS FIBER ANALYSIS

Sample Location LAB

Specific Materials/Process ASBESTOS

Pump Rate 1.8 l/min.

Dated Sampled 10-12-81

Time Finished 12.33

Sampled By JCL Sies

Time Started 12.12

Date Analyzed 10-16-81

Elapsed Time 21 min

Analyzed By JCL Sies

Vol. Sampled 37800 c.c.

Field Area .003025

Blank

Remarks: 5 ASBESTOS SAMPLES

Fibers > 5 μ

4 - PBS

1 - 7MS1

G BRINKMAN

SAMPLES THRU WILLIAMS
DIS INTEGRATOR

PLASTIC COVER DOWN
EXHAUST FAN OFF
VACUUM CLEANER ON
RESPIRATOR USED

| | | | | |
|-------|-------|-------|-------|-------|
| 2 1/2 | 0 | 0 | 0 | 2 |
| 1 | 4 | 0 | 0 | 1 |
| 1/2 | 0 | 0 | 2 | 2 1/2 |
| 1 | 1 | 0 | 0 | 0 |
| 0 | 1 1/2 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 2 1/2 | 0 | 1 | 2 | 0 |
| 2 1/4 | 2 | 2 | 0 | 0 |
| 2 | 0 | 1 1/4 | 2 1/4 | 1 |
| 0 | 0 | 1 1/4 | 0 | 2 |
| 0 | 1 | 1 | 1 1/2 | 1 1/2 |
| 0 | 0 | 2 | 1 1/2 | 3 1/2 |
| 1 1/2 | 2 | 2 | 2 | 0 |
| 2 | 0 | 0 | 0 | 1 1/2 |
| 1 1/2 | 3 | 0 | 1 | 2 |
| 1 1/2 | 2 | 2 1/2 | 2 | 0 |
| 1 1/2 | 2 | 0 | 1 1/2 | 0 |
| 3 1/2 | 1 1/2 | 1 1/2 | 1 | 1 1/2 |
| 0 | 1 | 1 | 0 | 1 |
| 1 1/2 | 0 | 1 1/2 | 2 | 1 |
| 1 | 0 | 0 | 2 1/4 | 0 |

23 22 20 22.5 18.5

Analysis: 7.93 Fibers/cc

Total: 106

T.L.V. _____ Fibers/cc

Avg.: 1.06

$$\frac{1.06 \times 8545}{1003025 \times 37800}$$

ASBESTOS FIBER ANALYSTS

Sample Location LAB
 Specific Materials/Product asbestos Pump Rate 1.8 l/min.
 Dated Sampled 9-24-81 Time Finished 15:38
 Sampled By J. L. Sles Time Started 12:38
 Date Analyzed 9-28-81 Elapsed Time 3 HRS = 180 min
 Analyzed By J. L. Sles Vol. Sampled 324000 c.c.
 Field Area 003025 Blank _____

Remarks:

*G Brinkman
run rotap*

7 total

4 - #5

2 - 7MS

1 - 7D1

$$\frac{0.92 \times 855}{0.003025 \times 324000}$$

Analysis: 0.80 Fibers/cc

T.L.V. _____ Fibers/cc

Fibers > 5 μ

| | | | | |
|-------|-------|-------|-------|-------|
| 2 1/2 | 1 | 1 1/2 | 0 | 5 |
| 1 | 0 | 0 | 1 | 0 |
| 2 | 1 | 2 | 3 | 1 |
| 1 | 1 | 0 | 0 | 0 |
| 0 | 2 | 1 1/2 | 1 | 1 |
| 2 1/2 | 2 | 0 | 0 | 2 1/2 |
| 0 | 0 | 1 | 2 | 0 |
| 1 1/2 | 1 1/2 | 2 | 2 | 2 |
| | 3 | 1 1/2 | 1 | 0 |
| 2 | 2 1/2 | 0 | 0 | 1 1/2 |
| 0 | 0 | 1 1/2 | 0 | 1 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 2 1/2 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 2 |
| 2 1/2 | 2 | 0 | 0 | 0 |
| 3 | 1 | 0 | 1 | 1 |
| 0 | 0 | 1 | 1 1/2 | 2 |
| 0 | 0 | 2 | 1 | 0 |
| 0 | 2 | 1 | 0 | 0 |
| 0 | 2 | 4 | 2 | 0 |

20 2 1/2 17 145 17

Total: 92

Avg.: 0.92

ASBESTOS FIBER ANALYSIS

Sample Location LAB
 Specific Materials/Product asbestos Pump Rate 1.8 l/min.
 Dated Sampled 9-22-81 Time Finished 2:39
 Sampled By J. C. Lee Time Started 2:08
 Date Analyzed 9-25-81 Elapsed Time 31 min
 Analyzed By J. C. Lee Vol. Sampled 55800 c.c.
 Field Area .003025 Blank _____

Remarks:

G. BRINKMAN
 14 asbestos samples
 thru Williams
 disintegrator
 (respirator used)

$$\frac{2.42 \times 855}{.003025 \times 55800}$$

Fibers > 5 μ

| | | | | |
|-------|-------|-------|--|--|
| 2 | 1 1/2 | 1 1/2 | | |
| 4 1/2 | 1 | 1 | | |
| 4 | 2 | 1 | | |
| 4 | 3 | 1 | | |
| 1 | 4 | | | |
| 2 | 2 | | | |
| 4 | 2 | | | |
| 3 | 1 1/2 | | | |
| 3 | 1 | | | |
| 3 1/2 | 1 | | | |
| 4 | 4 | | | |
| 2 | 2 1/2 | | | |
| 0 | 1 1/2 | | | |
| 4 1/2 | 1 | | | |
| 3 1/2 | 5 1/2 | | | |
| 1 | 4 1/2 | | | |
| 5 | 2 | | | |
| 2 | 4 | | | |
| 2 1/2 | 3 | | | |
| 2 | 3 | | | |

Analysis: 11.35 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 106.5 (44)
 Avg: 2.42

ASBESTOS FIBER ANALYSIS

Sample Location Wet end #5
 Specific Materials/Product 030WS 88 Pump Rate 1.8 l/min.
 Dated Sampled 9-21-81 Time Finished 15:38
 Sampled By J. L. Liss Time Started 11:26
 Date Analyzed 9-25-81 Elapsed Time 4hr 21 min (451 min)
 Analyzed By J. L. Liss Vol. Sampled 469800 c.c.
 Field Area 003025 Blank _____

Remarks:

Riffles shift

Fibers > 5 μ

| | | | | | |
|---|---|---|---|---|----|
| 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 1 | 0 | 1 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 7 |
| 0 | 0 | 0 | 0 | 0 | 8 |
| 0 | 0 | 1 | 0 | 0 | 9 |
| 0 | 0 | 1 | 0 | 0 | 10 |
| 0 | 0 | 0 | 0 | 0 | 11 |
| 0 | 1 | 0 | 0 | 0 | 12 |
| 0 | 1 | 1 | 0 | 0 | 13 |
| 0 | 0 | 1 | 0 | 0 | 14 |
| 0 | 0 | 0 | 0 | 0 | 15 |
| 0 | 0 | 0 | 0 | 0 | 16 |
| 0 | 0 | 0 | 0 | 0 | 17 |
| 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 0 | 0 | 0 | 0 | 19 |
| 0 | 0 | 0 | 0 | 0 | 20 |
| 0 | 0 | 0 | 0 | 0 | 21 |

$$\frac{0.02 \times 855}{0.003025 \times 469800}$$

Analysis: 0.012 Fibers/cc
 T.L.V. _____ Fibers/cc

Total: 2
 Avg: 0.02

ASBESTOS FIBER ANALYSIS

Sample Location Dry end #5
Specific Materials/Product a30 WS 28 Pump Rate 1.8 l/min.
Dated Sampled 9-21-81 Time Finished 15:32
Sampled By J. L. Luce Time Started 11:26
Date Analyzed 9-25-81 Elapsed Time 4hr 6min (246min)
Analyzed By J. L. Luce Vol. Sampled 442800 c.c.
Field Area .003025 Blank _____

Remarks:

Fibers 3 5 20

S. JONES
watcher
Riffles shift

[illegible]

2 112

$$\frac{0.05 \times 855}{0.003025 \times 442800}$$

Analysis: 0.032 _____ Fibers/cc
T.L.V. _____ _____ Fibers/cc

Total: 2.5
Avg.: 0.025

ASBESTOS FIBER ANALYSIS.

Sample Location Wet end #5

Specific Materials/Product 025 WS 88 Pump Rate 1.8 l/min.

Dated Sampled 9-15-81 Time Finished 14:35

Sampled By J. L. Lee Time Started 11:24

Date Analyzed 9-22-81 Elapsed Time 3 hr 48 min 228m.

Analyzed By J. L. Lee Vol. Sampled 410400 c.c.

Field Area .003025 Blank

Remarks:

Fibers $\geq 5 \mu$

Remarks: *Day on shift*

[illegible]

2 1 1 1

Analysts: 0.034 Fibers/cc

Total: 3

T.L.V. _____ Fibers/co

Arg : 0,05

$$\begin{array}{r} 0.05 \times 855 \\ \hline 0.003025 + 410400 \end{array}$$

Dry end #5

025 WS 88

[illegible]

1.8

9-15-84

The -rished

14:46

J. C. Lee
9-22-81

[illegible]

10.31

9-32-81

1. 1. 1.

4: 1.5

253-100

J. L. L.

•

459 000

watcher
S. Dolan

Dixons shift

[illegible]

名

1

$$\begin{array}{r} 0.025 \times 855 \\ \hline .003025 \times 459000 \end{array}$$

0.0154

2.5

0.025

020 NS64

9-14-81

J. C. Lues
9-2221
J. C. Lues

9-2221

The Analyst 14:27

Time started: 10.13

... 4 hrs 4 min (25%)

457200

asbestos Refiner
operator

$$\frac{0,015 \times 255}{0,003025 \times 527400}$$

0.008

[illegible]

2.

1.5

0.015

020 WS 64
9-14-81
JCH
9-22-81
JCH

Blank

0.035

LAB

9-10-81

J. I. SIES

9-15-81

J. I. SIES

003025

Copy Rate 1.8

Time Finished 15:57

12:10

3 HRS 47 min (227 min)

408600

G. CROUSE

asbestos samples
(Respirator used)
6 in Williams
disintegrator

8 in Ro Top

$$\begin{array}{r} 0.78 \times 855 \\ \hline 0.003025 \times 408600 \end{array}$$

0.54

| | | | | |
|-------|-------|-------|-------|-------|
| 2 | 1 | 0 | 0 | 1/2 |
| 2 | 2 | 0 | 0 | 1 |
| 2 | 2 | 0 | 0 | 1 |
| 1 | 1/2 | 0 | 0 | 1 |
| 2 | 3/4 | 1 | 0 | 1 |
| 3 | 0 | 1/2 | 0 | 0 |
| 1 | 2 | 1 | 0 | 0 |
| 2 1/2 | 0 | 0 | 0 | 0 |
| 0 | 3 | 2 1/2 | 0 | 0 |
| 0 | 0 | 1 1/2 | 2 1/2 | 0 |
| 0 | 1 1/2 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 1/2 | 0 |
| 3 | 0 | 1 1/2 | 0 | 0 |
| 1 1/2 | 0 | 0 | 2 | 0 |
| 0 | 0 | 2 | 0 | 0 |
| 1 1/2 | 0 | 0 | 1 1/2 | 1 |
| 0 | 0 | 1 | 0 | 0 |
| 2 1/2 | 0 | 2 1/2 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1 1/2 |
| 3 | 0 | 0 | 0 | 2 1/2 |
| 27 | 15.5 | 15.5 | 8.5 | 11.5 |

78

0.78

ASBESTOS FIBER ANALYSIS

City Location: BLDG #60

Specific Materials/Product 030 W588

Pump Date 1.8.2011 1/11/11

Noted Sampled 8-27-87

Time Finished 14:44

Sampled By J. J. S. E. S.

Time Started 9:07 (54.37)

Date Analyzed 9-15-81

Elapsed Time 337 min

Registered by L. C. L.

Vol Samples 606600 c c.

File # 4003 025

Blank

Notes :

DIXONS SHIFT

Fibers ≥ 5

D. WAREHIME

ASBESTOS REFINER
OPERATOR

$$\frac{0.115 \times 855}{0.003025 \times 606600}$$

[illegible]

2 1/2 6k: 4 1/2 1: 1

Analysis: 0.054 Filters/cc

Total: 11.5...

T.L.V. _____ Fibers/cc

Ans: 0.115

Sample No. 030 WSB8 Pump Time 1.8 min
 Date Rec'd 8-21-81 Time Finished ~~10:25~~
 Operator J. I. SIES Time started 8:37
 Sample No. 8-27-81 Liquid vol. (1HR4 (MIN)) 106.0
 Operator J. I. SIES Vol Sample 190.800
 Sample No. 003029 Blank

Fiber:

| | | | | |
|---|-----|---|-----|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |

1 1 1 1/2 1

4.5
0.045

0.067

3

DRY END #5 MACHINE

... 030WS88 Pump Rate 1.8
 ... 8-20-81 Time Finished 13-41
 ... J.I. S.E.S Time started 8-26
 ... 8-27-81 (5HR 15MIN) 315MIN
 ... J.I. S.E.S ... 567000
 ... 0,003025 ...

W. DELLS SHIFT

G. HOBAN
WATCHER

| | | | | |
|---|---|---|---|---|
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 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 | 2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 2 |
| 2 | 2 | 0 | 2 | |

$$\begin{array}{r}
 0.06 \times 855 \\
 \hline
 0.003025 \times 567000
 \end{array}$$

0.03

6
0.06

... DAY END ... #5 MACH ...

1. Product 035 WS88 Comp Date 1.8

1.8

Time Finished 8-19-81 Time Finished 15.19

Time Finished... 15.19

NAME J. I. SIES DATE STARTED 9.14

Time started: 9.14

8-27-81 Jettie Hill LHR 5min 36

12-100 1102 6HR 5mm 365mm

J. L. S. E. S. ... Vol: Sample 652.000

Vol: Starting 657.000

1003025- Blank

Start: _____

File # 55-1

WATCHER

J. SNAPP

[illegible]

$$\frac{0.035 \times 853}{0.003025 \times 657000}$$

0.015

3.5

0.035

WET END #5 MACHINE

... 039 YMS 81

Unit Rate 1.87

8-18-81

Time Finished 16.23

... J. L. S. 185

ins started 9. 47

8-27-81

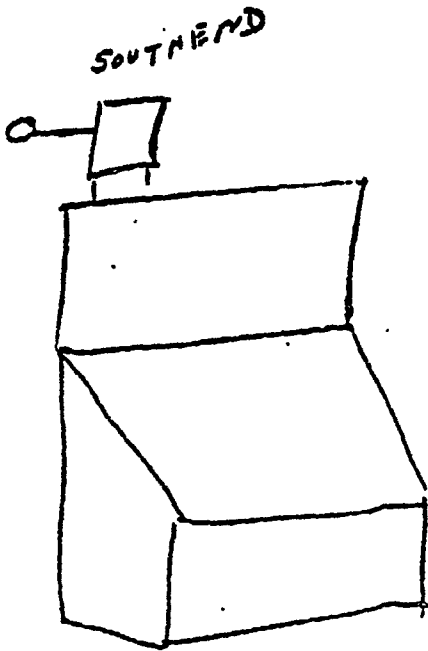
1-25-67 (6 hr 6 min) 376.

J. I. Sess

Set 100 6.76800

0.003025

উদ্ভিদ


$$\frac{0.035 \times 853}{0.003025 \times 676800}$$

0.0146

[illegible]

3.5

$\therefore 0.035$

8-18-81

8:30
AM

E. HENRY REFUSED

TO WEAR PUMP AND FILTER

W. L. Lee

BLDG #60

030 WSPR NOS

7-31-81

J.I. SIES

8-21-81

J. I. SIES

0.003025

1.8

Now Enters: 13.56

Time 8:29

327 min

5886

W. DELL'S SHIFT

EARL EVANS

ASBESTOS REFINER
OPERATOR

CUTTING PLASTIC OFF
OF ASBESTOS SKIDS,
OPERATE LIFT TRUCK

$$\frac{0.06 \times 855}{0.03025 \times 588600}$$

0.029

6
0.06

| | | | | |
|---|-----|---|---|---|
| 7 | 0 | 0 | 0 | 0 |
| 6 | 2 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 4 | 6 | 0 | 0 | 0 |
| 3 | 1/2 | 9 | 0 | 0 |
| 2 | 8 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 2 |
| 0 | 8 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 2 | 1 | 1 | 0 | 2 |

DRY END #5 MACHINE

025 WSP7
 7-23-81
 J. I. SIES
 8-20-81
 J. I. SIES
 0.003025

Pump Rate 1.8
 Time Taken 12:44 PM
 8:52 AM
 3 HRS 2 MIN. 232
 417600

K. GREEN - WATCHER - 3RD HAND
 RIFFLES SHIFT

| | | | | |
|---|---|-------|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 1/2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 1/2 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 2 | 0 | 0 | 1 |

$$\begin{array}{r}
 0.07 \times 855 \\
 \hline
 0.03025 \times 417600
 \end{array}$$

0.047

7
 0.07

BLDG #60

WS87 15% PAPER

455

7-22-81

Time elapsed 1530

J.I.SIES

Time elapsed 1300

8-20-81

Time elapsed 2HR30min

450min

J.I.SIES

Time elapsed 225000

0.003025

Time

GEORGE CROUSE
PAPER CUTTER

SLIGHT BREEZE

RIFFLES SHIFT

$$\begin{array}{r} 0.12 \times 853 \\ \hline 0.003025 \times 225000 \end{array}$$

| | | | | |
|-----|---|---|-----|-----|
| 0 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1/2 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1/2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 2 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1/2 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 5 | 1 | 2 | 1/2 | 1/2 |

0.15

12

0.12

030 4975

4-9-81

J. L. S.
5-7-8

5-7-81

0,003025

0.003025

142.0
27

11 - 48

3-39

219

438 000

Carlos Javier Bufflesstift

$$\begin{array}{r} 1527 \\ 11:48 \end{array}$$

slurry mixer

$$\begin{array}{r} 0.395 \times 855 \\ \hline 0.003025 \times 438000 \end{array}$$

0.255

| | | | | |
|-----|-----|-----|-----|---|
| 2 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 2 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 2 | 0 | 3 | 0 | 1 |
| 0 | 2 | 1 | 0 | 0 |
| 1 | 1/2 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 1/2 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 | 0 |
| 0 | 3 | 2 | 1/2 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 1/2 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1/2 | 0 |
| 1/2 | 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 1/2 | 1 |

10 12 10 4 2

39.5'

.395

asbestos unloading

Bldg #61

7 D5

1.9

12 73
13 13

4-9-81

1.0-39

John Sins

5-7-81

2.34

154m

John S.

292600

603025

Low. Tester man #3

13-13

OFF

10-39

ON

lift truck operator

second car

unloaded in Bldg #61

Bad-car
load shifted

$$\begin{array}{r} 0.31 \times 855 \\ \hline 003025 \times 292600 \end{array}$$

| | | | | |
|-------|---|-------|-------|-------|
| 0 | 1 | 0 | 1/2 | 1 1/2 |
| 7 | 1 | 0 | 0 | 0 |
| 1 | 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 1/2 | 1 1/2 | 0 |
| 1/2 | 0 | 1 1/2 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 1 1/2 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 1/2 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | 0 | 0 | 1 |
| 0 | 1 | 1 | 1 1/2 | 0 |
| 0 | 1 | 1 1/2 | 0 | 1 |
| 1 | 0 | 1 | 1 1/2 | 1 1/2 |
| 0 | 0 | 0 | 1 | 0 |
| 7 1/2 | 6 | 8 1/2 | 4 | 5 |

0.3

31

0.31

Bldg #60

030WS75

4-9-81

Del Luis

5-7-81

Del Luis

003025

20-

11.48 AM

8:44 AM

3hr 4min 184min

368000

Carlos Rower Riffles shift

11-48 OFF

8-44- ON

slurry mixer

$$\begin{array}{r} 0.35 \times 255 \\ \hline .003025 \times 368000 \end{array}$$

0.269

35

0.35

| | | | | |
|---------------------------|-------|-------|-------|-------|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 1 1/2 |
| 0 | 0 | 0 | 1 1/2 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 2 | 0 | 1 1/2 | 0 | 1 |
| 1 | 1 1/2 | 1 | 1 1/2 | 1/2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 1/2 | 0 | 0 | 0 |
| 1/2 | 0 | 1 1/2 | 1 | 0 |
| 0 | 0 | 0 | 1/2 | 0 |
| 2 | 0 | 0 | 0 | 1 1/2 |
| 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 |
| 0 | 1 | 2 | 0 | 0 |
| 9 1/2 5 1/2 8 5 1/2 6 1/2 | | | | |

Asbestos unloading, Bldg #61

DMS7 ~~3333~~

1.9

4-9-81

10 39

Julian

8:35

5-7-81

2 HAS 4m

124 m

Julian
003025

235600

#3

12816

10-39-0 OFF

8-34-45 IN

first car.

Low. 1st term operator

Bad car, load shifted

| | | | | |
|-----|-----|-----|-----|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1/2 | 0 |
| 1/2 | 1 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1/2 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 3 | 0 | 0 | 0 |
| 1 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 |

3 1/2 5 2 1/2 2

.145 x 855

003025 x 235600

0.174

14.5

.145

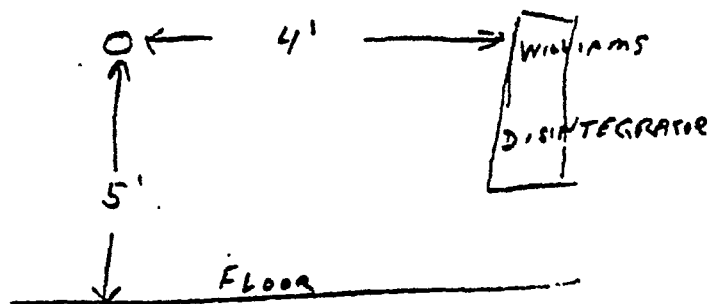
| | | <u>Lib</u>
<u>Mut</u> | <u>Ced.</u> |
|----|--|--------------------------|-------------|
| 1. | 8:34 am F.L.O. | 0.2 | 0.174 |
| 2. | 8:43 am Sl. Mix
op. FL. | 1.6 | 0.269 |
| 3. | 8:52 Latex mixer
2nd level | 0.2 | — |
| 4 | 10:37 FLO (same
as 1)
covered full work
shift | 0.6 | 0.3 |
| 5 | same as 2 | 0.005 | 0.255 |
| 6 | same as No 3 | N.D.. | — |

LAB
 (1) 701 4 P25
 6-2-22
 J. C. Rice
 6-17-22
 J. C. Rice
 003025

1.8
~~11.5~~
 9:56
 19:79 min
 142.500

Report
 G. BRINKMAN
 USING WILLIAMS
 DISINTEGRATOR

STATIONARY SET UP



| | | | | |
|---|-----|-----|-------|-----|
| 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 1 |
| 0 | 1/2 | 1 | 0 | 1/2 |
| 0 | 0 | 1 | 2 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1/2 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 7 | 1/2 | 0 | 2 1/2 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 1/2 | 0 |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 |

7 1/2 3 2 1/2 7 4 1/2

Analysis: 0.49

Total: 24.5

T.S.V.

Avg: 0.245

$$\begin{array}{r}
 0.245 \times 855 \\
 \hline
 0.03025 \times 142200 \\
 430.155
 \end{array}$$

LAB
 (D 725(2) P35
 6-2-82
 J. L. Fries
 6-17-82
 J. L. Fries
 003025

1.8
 11.5

10:20

55m

99000

G BRINKMAN
 RUNNING R. TAP.

| | | | | |
|-------|-------|-------|-------|-----|
| 0 | 0 | 0 | 1/2 | 0 |
| 2 | 2 | 1/2 | 0 | 0 |
| 2 | 2 | 1/2 | 1 | 1/2 |
| 5 | 2 1/2 | 0 | 0 | 1 |
| 1 | 3 | 0 | 1/2 | 0 |
| 1 | 0 | 0 | 0 | 1/2 |
| 0 | 1 | 0 | 0 | 0 |
| 2 | 0 | 2 | 1/2 | 0 |
| 3 | 0 | 3 1/2 | 0 | 2 |
| 0 | 0 | 1 1/2 | 1 1/2 | 0 |
| 0 | 2 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 3 | 0 |
| 0 | 2 | 0 | 0 | 1 |
| 3 1/2 | 2 | 1 | 0 | 1 |
| 2 | 1 | 1 | 0 | 1 |
| 1 | 2 1/2 | 2 | 1 | 0 |
| 0 | 0 | 0 | 1 | 0 |

165 21 13.5 9 9

Analysis: 1.97

Total: 69

T.L.V.:

Net: 0.69

$$\frac{0.69 \times 855}{.003025 \times 99000} = \frac{589.95}{299.475}$$

1.8
10:19
10:11
P. min
10:00

[illegible]

2 142

Total: 3.5

Aug: 0.035

$$\begin{array}{r} 0.035 \times 855 \\ \hline 0.0325 \times 14400 \end{array} \quad \begin{array}{r} 29.925 \\ 468.000 \\ \hline 497.925 \end{array}$$

Run along with MOST test - (They completed 15 mins total time with 7 min of RoTap)

LAB

(1) 701 (3) 725

6-2-82

7-16-82

J. Williams

.003025

1.8

→ 2.1

9:56

1.5 MIN

27000

G. BRINKMAN
USING WILLIAMS
DISINTEGRATOR

RESPIRATOR USED

| | | | | |
|-----|-----|---|-----|-----|
| 0 | 1 | 0 | 0 | 1/2 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 1/2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 1/2 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1/2 | 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 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |

1/2 1/2 3 1/2 1/2

Analyst: 0.63

T.L.V. _____

6

0.06

$$\frac{0.06 \times 855}{.003025 \times 27000} = \frac{51.3}{81.675}$$

Run along with MOSH test.