PLAINTIFF'S EXHIBIT

CT-524

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-234	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7719

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp.

STREET ADDRESS: 600 St. Lyn. Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Hand unloading type CCC asbestos from trailer

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open face, AA, 0.8 μ

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 14 min @ 2 lpm = 28 l. BP (mm) T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED: Asbestos fibers count longer than 5 μm in fibers/cc. = 2x8

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] Johns, during handling of bags. 1355 TO 1412 hrs. Respirator used, Mulsol 7165 ea BM 218-129.

Pump 003-371; Calib. 10-72; Rotom 6.0 = 2 lpm.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017691

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 234

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7 719	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{47.3 \text{ Fibers/field} \times 147}{28 \text{ liters air}} = 248 \text{ fibers/cc}$$

If this area is resampled take about 5 liter air volume.

8. DISPOSITION OF SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Neville	Willard Dixon	1/11/73

Form LSB 005 5

CTD017692

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-236	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7721

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp.

STREET ADDRESS: 600 St. Clyr. Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Hand unloading Type CCC Asbestos from trailer

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open face, AA, 0.8μ

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 7 min @ 2 lpm = 14 l — BP (mm) — T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED: Asbestos fibers count longer than 5 μm in fibers/cc. = 390

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] Laborer from 1412 to 1419 hrs, during handling of bags. Respirator used.

Pump 003-371; R = 6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017693

DEPT OF LABOR
OF LABOR STANDARDS
Occupational Safety

ANALYST WORKSHEET

236

[X] INTACT

7721 | [ ] BROKEN | [ ] NONE | 1-4-73

3. REGION

VII

DESCRIPTION OF SAMPLE

Filter

SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and graticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{371 \text{ Fibers/Field} \times 147}{14 \text{ liters air}} = 390. \text{ fibers/cc}$$

If this area is resampled, take about 3 liter air volume. (Note! a slide showing greater than 20 fibers/field can't be counted accurately.)

DISPOSITION OF SAMPLE

Used in analysis

10. DATE	ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Naville	Willard Dixon	1/11/73

Form [illegible]

CTD017694

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SE 238

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
S-7723	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
N. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{27.0 \text{ Fibers/field} \times 147}{12 \text{ liters air}} = 330. \text{ fibers/cc}$$

If resampled, we suggest an air volume of about 4 liters of air for this area.

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Perille	Willard Dixon	1/11/73

Form LSE 00S 5

CTD017695

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-52-238	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7723

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr. Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Road unloading type CCC asbestos from trailer.

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open face, AA, 0.8 μ

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 6 min @ 2 l/m = 12 l — BP (mm) — T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 μm in fibers/cc. = 330

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted], Laborer, from 1419 to 1425 hrs. Handling bags in trailer. Resp. used.

003-371; R=6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017696

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-233	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Sorrick	X-7718

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Unloading Asbestos Bags from Trailer

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER Open Face AA, 0.8u

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

14 min @ 2 l/m = 28 l. BP (mm) T (C)

10. POSSIBLE INTERFERENCES

~~Portland Cement & Silicon~~

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 198

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sample on [redacted] laborer, from 1357 to 1411 hrs during handling 2' bags of CCC asbestos from load to pallet. Respirator used B.M. 21B-129, Wilst Mk. 7165.

Pump 003-224; Calib 10-72; Rotometer @ 3.6 = 2 l/m.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017697

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 233

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
V-7718	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. SENT FROM	5. REGION
J. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{37.7 \text{ Fibers/Field} \times 147}{28 \text{ liters air}} = 198. \text{ fibers/cc}$$

This area is so high that an accurate count is difficult with the vol. of air taken. I suggest about 5 liters if you resample at this location. The filter also contained visible loose fiber which may have been lost

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Yeville	11 Jan '73

Form LSB 005 5

CTD017698

Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-52-235	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Sprid	X-7720

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp.

STREET ADDRESS: 600 St Clyr. Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Hand unloading bags of CCC asbestos

8. SAMPLING TECHNIQUE

IMPING R ____ BUBBLER ____ ESP ____ FILTER PAPER Open face AA. 0.8 u

MATERIAL ____ BAGS ____ SETTLED DUST ____ ~~Op~~ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET) 7.5 min. @ 2 l/m = 15 l. BP (mm) T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED

Asbestos fibers count longer than 5 µm in fibers/cc : 393

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] laborer, 1x11 and 4x8.5 hrs during transfer of bags from trailer to pallet. Respirator used.

Pump 003-224, R = 0.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017699

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 235

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7720	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{40.1 \text{ Fibers/field} \times 147}{15 \text{ liters air}} = 393. \text{ fibers/cc}$$

If this area is resampled, take about 3 liter air volume.

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Neville	Willard Dixon	1/11/73

Form LSB-005 5

CTD017700

Occupational Safety and Health Administration

1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-52-237	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7722

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp.

STREET ADDRESS: 600 St. Clyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St Louis	Mo.

7. OPERATION

Hand unloading bags of CCC asbestos from trailer.

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open face, AA, 0.8μ

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

5 min @ 2 l/m = 11 l. BP (mm) T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED

Asbestos fiber count, longer than 5 μm in fibers/cc = 341

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sample on [redacted] laborer, from 1418.5 to 1424 hrs. Handling bags in trailer. SP respirator used.

Pump 003-224; F=5.6.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017701

DEPT. OF LABOR
OFFICE OF LABOR STANDARDS
Division of Occupational Safety

ANALYST WORKSHEET

T-S- 237

1. SLIDE NUMBER	2. SEALS	3. DATE RECEIVED
722	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. SUBMITTED FROM	5. REGION
S) [illegible] D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{25.5 \text{ Fibers/field} \times 147}{\text{// liters air}} = 34/\text{.} \quad \text{fibers/cc}$$

If this area is resampled, take about 2-3 liters air volume.

8. RETAINED SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Neville	Willard Dixon	1/11/73

Form LSB 008 5

CTD017702

H-7968, Rpt. No. 19, FY73

No 1 Coupling Sand — Certain-teed

Sample Evaluation - Asbestos Fibers

Sa. No	1972 Date	Oper. Init.	Hour	Dur (Min)	Conc. f/cc	Activity
7-52-180	12/19	P.P.	08:48 am.	37	17.5	No test point time Sanding
-182	"	PP	09:25	27	15.5	Sanding Rep Man
-184	"	PP	09:57	42	8.0	sanding sanding Incl. 10 min brk.
-188	"	P.P.	10:39	26	17.5	sanding
-192	"	P.P.	11:05	32	19.-	sanding
-198	"	P.P.	11:40	9	32.-	Checking dust collector
-202	"	P.P.	1:20 pm	21	10.-	sanding
-208	"	P.P.	1:41 to 2:22	44	6.8	sanding

Total Sa. Time 238 min

TWA at operation = 13.7 f/cc >5μ

Σ 8 hr TWA

440 min @ 13.7

40 min @ ~0

480 → 6028 → 12.6 f/cc >5μ

Respirator used.

Sample evaluation sheet one 3

3@×2, 3@×2, 4@×3, 1@×7 ; 8 hr TWA = ✓

No 1 Coupling Sand

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-190	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7667

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Coupling Saw Operator

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Lot # 505985

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 37 min. X 2.0 l/m = 74 l BP (mm) ≈ STP T (C)

10. POSSIBLE INTERFERENCES: Portland Cement & Silica ≈ 90%

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 17.5

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G. Pump D03-377/NIOSH Calibrated 10-72
Sample Period: 848-925 Hrs.
Actual Rotameter Readings @ 848 & 925 = 2.0 l/m
6" 150 Pressure Pipe

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017704

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
Office of Occupational Safety

ANALYST WORKSHEET

7-S[illegible] 180

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7667	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{8.8 \text{ Fibers/field} \times 147}{74 \text{ liters air}} = 17.5 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	[redacted]	11 Jan '73

Form LSB 005 5

CTD017705

Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-182	12-14-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7669

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Belfontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Couplings Saw Operator

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8μ Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 27 Min. x 2 l/m = 54 l — BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica ~ 90%

11. ANALYSIS REQUIRED

Asbestos Fiber count longer than 5μm in Fibers/cc = 15.5

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D05-377
Sample Period: 925-957 Hrs.
Actual Rotameter Readings @ 925 & 957 Hrs = 2.0 l/m
6" 150 Pressure Pipe
Wore disposable respirator.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017706

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 182

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7669	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{5.68 \text{ Fibers/field} \times 147}{54 \text{ liters air}} = 15.5 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Wirtle	11 Jan '73

Form LSB 008 5

CTD017707

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 104	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7671

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Couplings Saw Operator

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 42 Min. x 2.0 l/m = 84 l

BP (mm) ~ STP T (C)

. POSSIBLE INTERFERENCES: Portland cement & silica ~ 90%

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 8.0

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump [illegible]
Sample Period: 957 - 1039 Hrs.
Actual Rotameter Readings @ 957 & 1039 = 2.0 l/m
Went on 10 min. break @ 1000 Hrs. in # 3 Plant lunch area.
Wore respirator while cutting 6" 150 Pressure Pipe

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017708

U. S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
Office of Occupational Safety

ANALYST WORKSHEET

7-St 184

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7671	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{4.6}{84} \frac{\text{Fibers/field} \times 147}{\text{liters air}} = 8.0 \text{ fibers/cc}$$

RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Neville	11 Jan '73

Form LSB 005 5

CTD017709

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 188	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7675

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Coupling Saw Operator

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 26 Min. X 2.0 l/m = 52 l

BP (mm) ~STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~ 90%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 17.5

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D05-511
Sample Period: 1039 - 1105 Hrs.
Actual Rotameter Readings @ 1039 & 1105 Hrs = 2.0 l/m
Cutting 6" 150 Pressure Pipe wearing disposable respirator.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017710

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

T-SL 188

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
-7675	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
T. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{6.2 \text{ Fibers/field} \times 147}{52 \text{ liters air}} = 17.5 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Neville	11 Jan '73

Form LSB 005 5

CTD017711

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-192	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7679

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Coupling Saw Operator

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 32 Min. x 2.0 l/m = 64 l

BP (mm) STP T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & silica ~ 90%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc < 19.

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period: 1105 - 1137 Hrs.
Actual Rotameter Readings @ 1105 & 1137 Hrs = 2.0 l/m
Cutting 6" 150 Pressure Pipe wearing disposable respirator.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017712

BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 192

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7679	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
T. Stein & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.47 \text{ Fibers/field} \times 147}{64 \text{ liters air}} = 19. \text{ fibers/cc}$$

8. RESERVE SAMPLE:

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
Jan 73	K. Burke	Willard Dixon	1/11/73

Form LSB 008 5

CTD017713

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 198	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7685

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Coupling Saw Operator

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 9 Min. X 2.0 l/m = 18 l Very High Relative Humidity BP (mm) ____ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ≥ 90%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 32.

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump DOS-577
Sample Period: 1140 - 1149 Hrs.
Actual Rotameter Readings @ 1140 & 1149 Hrs. = 2.0 l/m
Emptying dust collector adjacent to W. Side of #3 Plant.
Does not normally lean inside bag area. Elevator was broken down.
Dumped "collection" from hopper into dumpster.
Very light drizzle outside.
Wore disposable respirator.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017714

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 198

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7685	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
M. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{3.90 \text{ Fibers/Field} \times 147}{13 \text{ liters air}} = 32. \text{ fibers/cc}$$

8. OBSERVATIONS

Used in analysis

9. DATE	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan. 73	M. Zavala	Willard Dixon	1/11/73

Form LSH 005 5

CTD017715

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 202	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	Y-7689

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Coupling Saw Operater

8. SAMPLING TECHNIQUE

IMPING R ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 21 Min. @ 2.0 l/m = 42 l

BP (mm) ~ STP T (C)

POSSIBLE INTERFERENCES

Portland cement & silica ~ 90%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 10.

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period: 1320-1341 Hrs.
Actual Rotameter Readings @ 1320 & ~~1400~~ 1341 Hrs. = 2.0 l/m
Sawing 6" 150 Pressure Pipe.
Wore disposable respirator.

Form OSHA-23
Dec. 1971

ORIGINAL

CTD017716

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 202

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7689	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
V. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.9 \text{ Fibers/Field} \times 147}{42 \text{ liters air}} = 10. \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE ANALYZED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/5/73	W. Jewell	Mulford Dixon	1/11/73

Form LSD 605 5

CTD017717

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-208	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7695

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Coupling Saw operator

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 58408

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 44 Min. x 2.0 l/m = 88 l

BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~ 90 %

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 6.8

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period: 1341 - 1425 Hrs.
Actual Rotameter Readings @ 1341 Hrs = 2.0 l/m & @ 1425 Hrs. = 1.9 l/m
Sawing 6" 150 Pressure Pipe - wore disposable respirator.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017718

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 208

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7695	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
K. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{408 \text{ Fibers/field} \times 147}{98 \text{ liters air}} = 6.8 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W Fields	Millard Dixon	1/11/73

Form LSH 908 5

CTD017719

H-7988, Rpt. No. 019, [illegible]3
Centain-teed (515)

Recovery Area - Saw Operator
Sample Evaluation - Asbestos Fibers

Smp. No.	Date	Hours	Duration (Min)	Conc f/cc ± 5%	Activity
7-54					
-217	12/19/72	08:12-09:02	50	7.5 ✓ LB	Sawing & 18 min Arrang
-215	"	09:05-09:48	43	4.9 ✓ LB	Normal oper. Saw + Crusher
-205	"	09:51-10:28	37	5.5 ✓ LB	" " "
-195	"	11:29-11:59	30	4.1 ✓ LB	" "
-197	"	12:00-12:51	51	4.0 ✓ LB	" (incl. 30 min Lch.)
-189	"	13:15-13:31	16	6.8 ✓ LB	Saw + Crusher
-191	"	13:32-13:39	7	7.1 ✓ LB	Area Support
			234 min sa. time		

TWA for 234 min = 5.4 f/cc

Σ 8 hr TWA: 460 × 5.4 / (Breathzone only) 20 × 0.6 → 2496; 2496/480 = 5.2 f/cc > 5μ

Recovery Area - Saw Operator Helper

Smp. No.	Date	Hour	Dur. Min	f/cc ± 5%	Activity
7-52					
-209	12-19-72	08:17-07:07	50	3.1 ✓	Normal
-211	"	09:09-09:54	45	4.1 ✓	"
-193	"	09:55-10:25	30	6.6 ✓	"
-201	"	11:34-12:04	30	1.8 ✓	"
-213	"	12:05-12:55	50	2.1 ✓	Norm (incl 30 min Lch.)
			205 min sa. time		

TWA for 205 min = 3.4 f/cc

Σ 8 hr TWA: 460 × 3.4 / 20 × 0.6 → 1576; 1576/480 = 3.3 f/cc > 5μ

Recovery Area
Saw Oper - 7 sa, rg 4.0 to 7.5; 8 hr Avg = 5.2 ✓ f/cc
Helper - 5 sa, rg 1.8 to 6.6; 8 hr Avg = 3.3 ✓ f/cc
12 sa

5 sa > 5 & < 10

Sample evaluation sheet no. 5

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-217	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7704

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Recovery Room

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

50 min @ 2 l/m = 100 l BP (mm) @ STP (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica - ~ 30 %

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc 2.5

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sample on [redacted] crusher area, from 08:27 to 10:17 hrs. Includes normal sanding & moving of pipe, plus 18 cmen away from pot. Air purifying respirator worn (BM 218-129)

Pump 003-2-K; Calib 10-72, 2 l/m ± 5. Instantaneous

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017721

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SE 217

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7704	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM: J. Smith & D. Holt

5. REGION: VII

DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{5.10 \text{ Fibers/field} \times 147}{100 \text{ liters air}} = 7.5 \text{ fibers/cc}$$

8. DISPOSITION OF SAMPLE: Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Faville	Willard Dixon	1/11/73

Form LSB 005 5

CTD017722

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-215	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7702

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Recovery Room

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

43 min. @ 2 l/min = 86 l. BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~ 30%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 4.9

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sample on [redacted] in crusher area from 0905 to 0948 hrs. Normal work schedule. Respirator worn

Comp 003-224, R=5.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017723

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 215

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
A-7 702	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM: James D. Hole

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.86 \text{ Fibers/field} \times 147}{96 \text{ liters air}} = 4.9 \text{ fibers/cc}$$

8. RESERVE SAMPLE: Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Neville	Willard Dixon	1/11/73

Form LSB 005 5

CTD017724

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-205	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D Holt	X-7692

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Recovery Saw

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

37 min @ 2 l/m = 74 l. BP (mm) ~ STD (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~ 30%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 5.5

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sample on [redacted] in trailer area from 0935 to 1028 hrs. Normal work. Respirator worn

Pump 003-22X; R = 5.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017725

U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 205

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7692	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
J. Klein & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.76 \text{ Fibers/field} \times 147}{74 \text{ liters air}} = 5.5 \text{ fibers/cc}$$

8. REMARKS SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/20/73	W. Ferdelle	Willard Dixon	1/11/73

Form LSB 005 5

CTD017726

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-195	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D Holt	X-7682

6. WHERE TAKEN	NAME OF ESTABLISHMENT		
	Certain-Teed Products Corp.		
	STREET ADDRESS		
	600 St. Cyr Road		
	CITY	COUNTY	STATE
	Bellefontaine Neighbors	St. Louis	Missouri

7. OPERATION
Recovery Room

8. SAMPLING TECHNIQUE				
	IMPING # ____	BUBBLER ____	ESP ____	FILTER PAPER ____ Open Face AA, 0.8u
	MATERIAL ____	BAGS ____	SETTLED DUST ____	GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)
30 min @ 2 l/m = 60 l BP (mm) ~ STP T (C)

J. POSSIBLE INTERFERENCES
Portland cement & silica ~ 90%

11. ANALYSIS REQUIRED
Asbestos fiber count longer than 5 um in fibers/cc : 4.1

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] in smoker area from 1129 to 1159 hrs. 15 min. at smoker, 8 min on dock, 7 min. supporting duties.

Coms 003-224; R = 5.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017727

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 195

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
K-7687	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.68 \text{ Fibers/field} \times 147}{60 \text{ liters air}} = 4.1 \text{ fibers/cc}$$

8. DISPOSAL SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Spindle	Willard Dixon	1/11/73

Form LSB 005 5

CTD017728

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-197	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7684

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Missouri

7. OPERATION

Recovery Dust Area

8. SAMPLING TECHNIQUE

IMPING R ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

5 l/min @ 2 hrs = 102 l. BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~ 30%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc : 4.0

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sample on [redacted], from 1200 to 1257 hrs including 30 min lunchbreak.

Pump 003-224; R = 5.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017729

U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 197

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7684	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. S[illegible] & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.80 \text{ Fibers/field} \times 147}{102 \text{ liters air}} = 4.0 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
10 Jan 73	W. Neville	William Dixon	1/11/73

Form LSB 005 5

CTD017730

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-199	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Hoff	X-7676

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Missouri

7. OPERATION

Recovery dust / crusher area

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

16 min @ 2 lpm = 32 l. BP (mm) ~ST T(C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~90%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 6.8

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Personal sa. on [redacted]
from 1315 TO 1331 hrs.
- 8 min. sawing, (Respirator Worn)
5 min. handling pipe
5 min operating crusher.

Note: one flexible vent line become disconnected.
Pump 003-224; PF = 5.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017731

...PARTMENT OF LABOR
...ADMINISTRATION
... of Occupational Safety

ANALYST WORKSHEET

7-SL 189

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7676	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.47 \text{ Fibers/field} \times 147}{32 \text{ liters air}} = 6.8 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Fairchild	11 Jan '73

Form LSB 008 5

CTD017732

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-191	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D Holt	X-7678

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Missouri

7. OPERATION

Recovery Saw Area

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

Pump @ 2 l/m = 14 l. BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica ~ 90 %

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc : 7.1

12. DATE REPORTED FROM LAB	13. CHEMISTS
	[redacted]

14. REMARKS

Personal sa. on [redacted] from 13:3[illegible] to 1337 hrs. Moving around area.

Pump 003-224, R = 5.6

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017733

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
Office of Occupational Safety

ANALYST WORKSHEET

T-S- 191

1. SAMPLE NUMBER	2. SEALS	4. DATE RECEIVED
X-7678	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

6. RECEIVED FROM	5. REGION
C. Smith & D. Holt	VII

7. DESCRIPTION OF SAMPLE

Filter

8. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.68 \text{ Fibers/field} \times 147}{14 \text{ liters air}} = 7.1 \text{ fibers/cc}$$

9. OBSERVED SAMPLE

Used in analysis

10. DATE RECEIVED BY ANALYST		11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Rockford Dixon	W. Neville	11 Jan '73

Form LSH 005 5

CTD017734

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-203	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7690

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Pipe crusher

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 50 min @ 2 l/m = 100 l BP (mm) ____ x STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica ~90%

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 3.1

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] from 0817 to 0907 hrs. Includes pipe handling with fork lift, operating crusher and 10-min break.

Pump DO3-371; Calib. 10-72, 2 l/m = 6.0 at 0m.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017735

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 203

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
[illegible]-7690	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.14 \text{ Fibers/Field} \times 147}{100 \text{ liters air}} = 3.1 \text{ fibers/cc}$$

8. REMARKS ON SAMPLE: Used in analysis

9. DATE REPORTED TO ANALYST	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Spain	Willard Dixon	1/11/73

Form LSH 005 a

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-203	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7690

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Pipe crusher

8. SAMPLING TECHNIQUE

IMPING R ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 50 min @ 2 l/m = 100 l BP (mm) ____ STP ____ T (C) ____

10. POSSIBLE INTERFERENCES: Portland cement & silica ~90%

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 3.1

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] from 0817 to 0907 hrs. Includes pipe handling with fork lift, operating crusher and 10-min. break.

Pump 003-371; Calib. 10-72; 2 l/m = 6.0 at 3 in.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017735

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 203

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
M-7690	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
M. Speir & D. Holt	VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.14 \text{ Fibers/Field} \times 147}{100 \text{ liters air}} = 3.1 \text{ fibers/cc}$$

8. DISPOSITION OF SAMPLE: Used in analysis

9. DATE REPORT OF ANALYST		10. CALCULATIONS CHECKED BY	11. DATE CHECKED
11 Jan 73	W. Fairbanks	Willard Dixon	1/11/73

Form LSH 005 5

CTD017736

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-473

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-211	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7698

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

OPERATION: Dipol crusher

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 45 min @ 2 l/m = 90 l. BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica ~ 3 0 %

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc : 4.1

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] from 0903 to 0957 hrs.

Pump 007-371 ; R = 6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017737

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
Office of Occupational Safety

ANALYST WORKSHEET

7-S 211

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
V-7698	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. SUBMITTED FROM	5. REGION
I. Stein & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.53 \text{ Fibers/field} \times 147}{90 \text{ liters air}} = 4.1 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Greville	Willard Dixon	1/11/73

Form LSB 005 5

CTD017738

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-193	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Kalt	X-7680

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Pipe Crusher

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 30 min @ 2 lpm = 60 l. BP (mm) ~STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica ~90%.

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 6.6

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] from 0955 To 1025 hrs ... smoking pipe.

Pump 003-371; R=6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017739

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 193

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7680	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.675 \text{ Fibers/field} \times 147}{60 \text{ liters air}} = 6.6 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Yeville	Willard Dixon	1/11/73

Form LSB 005 5

CTD017740

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-201	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7688

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

OPERATION: Rock crusher

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 30 min @ 2 lpm = 60 l. BP (mm) T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica ~ 90%

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 1 8

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] from 1134 to 1204 hrs. Sandblasting [redacted] repair.

Pump 003-371; R = 6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017741

Office of Occupational Safety

ANALYST WORKSHEET

7-SL 201

1. SAMPLE NUMBER: X-7688

2. SEALS: ☒ INTACT ☐ BROKEN ☐ NONE

3. DATE RECEIVED: 1-4-73

4. RECEIVED FROM: W. Spain & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.73 \text{ Fibers/Field} \times 147}{60 \text{ liters air}} = 1.8 \text{ fibers/cc}$$

RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1 Feb 73	W Parrish	Mallard Dixon	1/11/73

Form LSB OCS 5

CTD017742

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-213	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
	X-7700

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: Pipe coating

8. SAMPLING TECHNIQUE

IMPING ✗ ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 50 min @ 2 lpm = 100 L. BP (mm) ~STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica ~ 30%

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc : 2.1

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS: Personal sample on [redacted] from 1205 to 1255 hrs. Includes 30 min in lunchroom.

Pump 003-371. F-60.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017743

...TH ... OR
... Occupational Safety

ANALYST WORKSHEET

7-St. 213

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
S-7700	☐ BROKEN ☒ INTACT ☐ NONE	1-4-73

4. RECEIVED FROM: W. S[illegible] & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.75 \text{ Fibers/field} \times 147}{100 \text{ liters air}} = 2.1 \text{ fibers/cc}$$

8. OBSERVED SAMPLE: Used in analysis

9. DATE REPORT SENT TO ANALYST	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Revelle	Willard Dixon	1/11/73

Form LSB 005 5

No. 1 Pipe Machine — H-7968, Rpt. No. 19, FY 73
Fiber Mix Area — Certain-Teed

Sample Evaluation - Asbestos Fibers

Sa. No.	1972 Date	Hours	Duration (Min.)	Conc f/cc ±SE	Activity-Rep	
7-54						
-138	12/15	10:08-10:42 30"	34.5	7.4	(O.S.) Fiber feed	±
-148	12/18	11:53-12:26	33	8.2	(G.C.) " "	+
-152	"	12:26-12:52	26	5.3	(G.C.) Inval. 16 min Brk* plus...	+
-156	"	12:52-13:08	16	17.	(G.C.) Full-time Fiber dump.	+
-158	"	13:08-13:58	50	7.3	(G.C.) + Fork Truck Again	+
-169	"	13:58-14:17	19	5.8	(G.C.) Feed-Fiber Fines	±
-164	"	14:38-15:20	42	11.	(O.S.) TE veh door open Fiber Area	±
-168	"	15:20-15:36	16	9.2	(O.S.) Fiber Feed	+
-170	"	15:36-16:15	39	14.0	(O.S.) Fiber feed	+

Sa. Time 275 min Total

TWA = 9.3 f/cc ; Rg. 5.3 to 17 f/cc

Shift 6:30 to 2:30 p.m.

Σ 8 hr TWA = 440 min @ 9.3 (one lch & 16 brk pd) 80 min @ 0.6 = 520 ; 4116 / 480 = 8.6 f/cc

Sample Evaluation Sheet No. 4

#1 P.M. Fiber Feed

Sa. Rg 5.3 to 17
6 sa 5:10 ; 2 sa 10-15 ; 1 sa 15-20. 8 hr TWA = 8.6

CTD017745

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

VII

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-138	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7627

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine Fiber Man

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER Open Face AA, 0.8u

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 34.5 Min. x 2 l/m = 69 l

BP (mm) ~STP T (C)

POSSIBLE INTERFERENCES: Portland Cement & Silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = >.4

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employees Sampled: [redacted]

MSA Model G Pump D03-373 / NIOSH Calibrated 10-72
Filter Lot # 50585
Sample Period 1008 – 1042.5 Hrs.
Actual Rotameter Readings @ 1008, 1032, & 1042.5 Hrs = 2.0 l/m
Used respirator part of time while feeding fiber, usually only while dumping bag of fiber: RESPIRATOR – WELSH MANUF. CO.
U.S. Bur. of Min. App. No. 21B-114
Model 7100 – For Dusts & Mists
9 Magnolia St., Providence, R.I. 02909
Static Wool Filter

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017746

...NT OF LABOR
...ADMINISTRATION
Office of Occupational Safety

ANALYST WORKSHEET

7-58 138

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-627	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{3.46 \text{ Fibers/field} \times 147}{69 \text{ liters air}} = 7.4 \text{ fibers/cc}$$

...REMARKS

Used in analysis

9. DATE REPORT	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W Gardner	1/[illegible]/73

Form LSB 005 5

CTD017747

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-146	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
N. Spain	X-7637

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine FiberMat

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 33 Min. x 2.0 l/m = 66 l

BP (mm) STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 8.2

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D05-377 / NIOSH Calibrated 10-72
Sample Period 1153-1226 Hrs.
Actual Rotameter Readings @ 1153, & 1226 Hrs. = 2.0 l/m
Observed dumping asbestos during most of sample period. Wore respirator while actually dumping.
WELSH Model 7165
Single Use - Disposable
Bur. of Mines App. 21B-129

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017748

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 148

1. SAMPLE NUMBER	2. SEALS		3. DATE RECEIVED
X-7637	[X] INTACT [ ] BROKEN	[ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
Sonin & D. Holt	VII

DESCRIPTION OF SAMPLE

Filter

SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{3.47 \text{ Fibers/field} \times 147}{66 \text{ liters air}} = 7.2 \text{ fibers/cc}$$

RESERVE SAMPLE

Used in analysis

DATE REPORT / ANALYST	11. CALCULATIONS CHECKED BY	DATE CHECKED
11 Jan 73 / [signature]	Willard Dixon	1/11/73

Form LSB-005 5

CTD017749

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-152	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
N. Spain	X-7641

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine Fiber Man

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 26 min. x 2.0 l/m = 52 l

BP (mm) 2 STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 5.3

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G. Pump D03-377
Sample Period: 1226 - 1252 Hrs.
Actual Rotameter Readings @ 1226 & 1252 Hrs. = 2.0 l/m
Employee on break from 1231 until 1247 Hrs.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017750

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

152

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
S-7641	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73
4. SAMPLED BY	5. REGION	
M. Sevin & D. Holt	VII	

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and Walton reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.97 \text{ Fibers/field} \times 147}{52 \text{ liters air}} = 5.5 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. REPORTED BY ANALYST	10. CALCULATIONS CHECKED BY	11. DATE CHECKED
11 Jan '73 W. Ward	Wickland Dixon	1/11/73

Form LSB 005 5

CTD017751

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-4-73

SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 156	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7644

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine Fiber Man

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u Filter Lot # 50565

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 16 Min. x 2 l/m = 32 l

BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 17

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period 1252-1308 Hrs.
Actual Rotameter Readings @ 1252 & 1308 Hrs = 2.0 l/m
Entire time @ fiber dumping station.
Used respirator (WELSH Model 7165) While dumping.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017752

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-ST 156

1. SAMPLE NUMBER: X-7644

2. SEALS: [X] INTACT [ ] BROKEN [ ] NONE

3. DATE RECEIVED: 1-4-73

4. RECEIVED FROM: [illegible] & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{3.77 \text{ Fibers/field} \times 147}{32 \text{ liters air}} = 17. \text{ fibers/cc}$$

8. DISPOSAL OF SAMPLE: Used in analysis

9. DATE REPORTED: [illegible] 73 10. ANALYST: W. [illegible]

11. CALCULATIONS CHECKED BY: Willard Dixon 12. DATE CHECKED: 1/11/73

Form LSH 005 5

CTD017753

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-158	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7646

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine Fiber Man

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 50 Min. x 2.0 l/m = 100 l

BP (mm) = STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 7.3

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period 1308-1358 Hrs.
Actual Rotameter Readings @ 1308 & 1358 Hrs = 2.0 l/m
Used respirator while dumping fiber.
Observed moving asbestos with fork truck @ 1348 Hrs.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017754

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SF 158

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
K-7646	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
M. Stein & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{4.96 \text{ Fibers/field} \times 147}{100 \text{ liters air}} = 7.3 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Rolland Dixon	W. Revell	11 Jan '73

Form LSB 055 b

CTD017755

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-169	12-16-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7657

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine, Fiber Mon

8. SAMPLING TECHNIQUE

IMPING R ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)
19 Min. X 2.0 l/m = 38 l

BP (mm) -2 STP T (C)

10. POSSIBLE INTERFERENCES
Portland cement & silica

11. ANALYSIS REQUIRED
Asbestos fiber count longer than 5 um in fibers/cc < 5.8

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS
Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period 1358-1417 Hrs.
Actual Rotameter Readings @ 1358 & 1417 Hrs = 2.0 l/m
Observed dumping batch of asbestos fines @ 1407 Hrs.
Observed @ Fiber dumping station @ 1415 Hrs.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017756

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-3[illegible] 169

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7657	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.51 \text{ Fibers/field} \times 147}{38 \text{ liters air}} = 5.8 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
4 Jan 73	W. Kaebli	W. Allen Dixon	1/11/73

Form LSB 605 5

CTD017757

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 164	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7652

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine Fiber Man

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u Lot # 50565

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 42 Min. x 2.0 l/m = 84 l

BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES: Portland Cement & Silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc = 11.

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period: 1438 - 1520 Hrs.
Actual Rotameter Readings @ 1438 & 1520 Hrs. = 2.0 l/m
Observed in Fiber Feed area most of time.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017758

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

T-SL 164

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
T-7652	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
T. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.05 \text{ fibers/field} \times 147}{74 \text{ liters air}} = 1/1 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE ANALYZED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W Darville	W McCord Dixon	1/11/73

Form LSB 005 5

CTD017759

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 168	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7656

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine - Fiber Man

8. SAMPLING TECHNIQUE

IMPING R ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u Lot # 50585 ~~50585~~

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

16 Min. X 2.0 l/m = 32 l

BP (mm) ~ STP T (C)

. POSSIBLE INTERFERENCES

Portland Cement & Silica

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 9.2

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period: 1520 - 1536 Hrs.
Actual Rotameter Readings @ 1520 & 1536 Hrs. = 2.0 l/m
Had coat over sample for ~ 5 min. previous to detection @ 1535 Hrs. Removed Coat. Had been outside.
Feeding asbestos wearing respirator @ Initial Sample Time.
Dumped Fines @ 1525 Hrs. - wore respirator.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017760

BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SE 168

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7656	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.00 \text{ Fibers/Field} \times 147}{32 \text{ Liters air}} = 7.2 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan '73	W. Neville	Willard Dixon	1/11/73

Form LSB 008 5

CTD017761

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 170	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7658

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: #1 Pipe Machine - Fiber Main

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER: Open Face AA, 0.8u Lot # 50585

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 39 Min. X 2.0 l/m = 78 l

BP (mm) 2 STP T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 14.

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled: [redacted]
MSA Model G Pump D03-377
Sample Period: 1536 - 1615 Hrs.
Actual Rotameter Readings: @ 1536 = 2.0 l/m & @ 1615 Hrs. = 1.9 l/m
Observed: Feeding asbestos @ 1545 - wearing respirator
Dumping fines @ 1601 - wearing respirator

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017762

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-56 170

1. WORK NUMBER	2. SEALS	3. DATE RECEIVED
X-7658	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM: W. Smith & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{7.20 \text{ fibers/field} \times 147}{78 \text{ liters air}} = 14 \text{ fibers/cc}$$

8. RESERVE SAMPLE: Used in analysis

9. DATA REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	A. Revelle	Willard Dixon	1/11/73

Form LSB 005 3

CTD017763

H-7968, No. 19, 73
Certain-teed
No. 2 Pipe Machine, Fiber Mix Area

Component A — Sample Evaluation — Asbestos Fibers

Sa No 73-	Date	Hour	Conc. f/cc (>5μ)	Activity
-153	12-15-72	09:55-10:44=49min / 10:44-11:11=27min	2.9 ✓	(L.S.) 17 bags dumped
Lunch* -147	"	11:11-11:41=30	3.3 ✓	(L.S.) " " " "
-149	"	11:42-12:27=40	2.0 ✓	(L.S.) Control Board
-145	"	12:27-12:47=20	8.2 ✓	(L.S.) 17 bags dumped.
Break*		13:13-13:26=[13]		
[-161	"	13:13-13:26=[13]	6.4 ✓	(M.B.) Control]
-146	"	13:33-13:49=16	3.1 ✓	(L.S.) 17 bags dumped
-165	"	13:37-14:20=23	3.5 ✓	(L.S.) Control Board

Sa Time, 178 min on L.S. m. Tloy
Total Sa Time 191 min in area; TWA = 3.6 f/cc during work period. Range = 2.0 to 8.2.
8 hr TWA: 6:30 a.m. to 2:30 p.m., 50 min Lch + Brk.

$$\Sigma \begin{matrix} 3.6 \times 430 \\ 0.6 \times 50 \end{matrix} \downarrow \quad \frac{}{480} = 3.3 \text{ fibers/cc (>5μ)}$$

* Lunchroom (+ break area)

-139	12-15-73	12:08-12:26	0.6	(M.B) Lunchroom Area

Component B — Sample Evaluation — Fiber 5.0x — No 2 Fiber Mix

			Total Particulate weight	Quartz
73-SL-230	12-20-72 (M.C)	11:03-12:48 pm = 105 min a.m.	0.93 mg/M³	10%
73-SL-154	12-18-73 (M.C)	12:07-1609 pm = 242 min	0.62 "	10%

347 min; TWA = 0.72 mg/M³, including 40 min. of break time, therefore result is taken as representative of 8 hr TWA including break periods.

TLV) as Limit/Table G-3 = $\frac{10}{10+2}$ = .83 mg/M³

Cumulative Exposure for Components A + B above:

$$\frac{5.0x}{.72} \quad \frac{\text{Asbestos}}{.83} + \frac{3.3}{5} = .87 + .66 = 1.5 \times \text{Limit for Mixture.}$$

Sample evaluation sheet no. 6

Sum 8 50 TG 0.6 TO 8.2, 8 hr TWA = 3.6 ✓
2 Sa > 5 + < 10
No 2 Pipe Mach Fiber Mix Main

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-56-153	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7642

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certainteed Products Corp.

STREET ADDRESS: 600 St. Cyr Rd.

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Central station and fiber dump for one 2 pipe machine

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER Open face AA, 0.8u

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

2 l/m for 47 min. = 98 liters BP (mm) STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement and silica ~ 20%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 2.9

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 9:55 am to 10:44 am / 7 bags of "Cemsil" asbestos dumped using Welsh 7165 respirator (B.M. 218-129). No respirator used during slitting bags and packing waste bags.

Plant is 30 min. lunch at 10:44.

Pump 003-275, Calib 12-72; 2 l/m = 6 x rotom.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017765

U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

Form 153

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
S-7642	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73
4. ANALYST'S NAME	5. REGION	
W. Stein & D. Holt	VII	

6. DESCRIPTION OF SAMPLE

Filter

7. ANALYTICAL REMARKS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.95 \text{ Fibers/field} \times 147}{95 \text{ liters air}} = 3.9 \text{ fibers/cc}$$

8. DISPOSITION OF SAMPLE

Used in analysis

9. DATE ANALYZED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1-5-73	W. Stein	Wilbur Elgar	1/11/73

Form ESH 305.3

CTD017766

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
2-54-147	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7636

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Rt. 2 Road

CITY	COUNTY	STATE
Bellefontaine Heights	St. Louis	Mo.

7. OPERATION

Control station and fiber dump for No. 2 paper machine

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER open face AA, 0.8 μ

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

30 min @ 2 l/m = 60 l. BP (mm) ~ ST P T (C)

10. POSSIBLE INTERFERENCES

Portland cement and silica ~ 15%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 μm

in fibers/cc.: = 3.3

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 11:11 TO 11:41 a.m. 17,100 lb. bags of asbestos were dumped; resp. used.

Pump 007-225, calib 10-72, 2 l/m = 6.7 station.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017767

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-36 147

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7636	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.3^{3} \text{ Fibers/Field} \times 147}{60 \text{ liters air}} = 3.3 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE OF ANALYSIS	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Revelle	11 Jan '73

Form LSB 005 5

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-52-149	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D Hall	X-7638

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp.

STREET ADDRESS: 600 St. Cyr. Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Control sta. (mix) and use of fork truck to bring 2 loads from shed (asbestos) -- fiber man #2 working

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER open face AA, 0.8 μ

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

40 min @ 2 l/m = 80 l. BP (mm) S-TP T (C)

10. POSSIBLE INTERFERENCES

portland cement and silica ~ 80%

11. ANALYSIS REQUIRED

asbestos fiber count < 5 μm in fibs/c.c.

= 2.0

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 11:47 to 12:27 pm. Control-work primarily.

Pump # 003-275, Calib. 10-72, 2 l/m = 6.4 rotam.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017769

DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 149

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7638	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
J. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.61 \text{ Fibers/field} \times 147}{80 \text{ liters air}} = 3.0 \text{ fibers/cc}$$

REMARKS

Used in analysis

9. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
[illegible]	Willard Dixon	1/11/73

Form LSH 0005

CTD017770

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-145	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7634

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Control station (mix) and fiber dump for 2 pipe machines

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

20 min @ 2 l/m = 40 l. BP (mm) 5?-TP T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica [~ 5%]

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 8.2

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 12:27 to 12:47 p.m. opened + dumped 12,-100 lb bags of asbestos. Respirator used only at dump hood

Mix ratio was 6.24 silica, 9.36 cement, 2.40 fiber.

Pump 007-275; Calib 10-72; 2 l/m = 6.4 rotom

Form OSHA-23
Dec. 1971

ORIGINAL

CTD017771

DEPARTMENT OF LABOR
LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

T-SL 145

1. CASE NUMBER	2. SEALS	3. DATE RECEIVED
-7634	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM: W. Spain & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{2.22 \text{ Fibers/field} \times 147}{40 \text{ liters air}} = 8.2 \text{ fibers/cc}$$

8. REMARKS: Used in analysis

9. DATE REPORTED / ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73 Willard Dixon	W. Neville	11 Jan '73

Form LSB 005 5

CTD017772

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 161	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Kelt + Wm. Spain	X-7649

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

No. 2 pipe machine - Dust control

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

15 min @ 2 lpm = 26 l BP (mm) ~ 5-TO T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica ~ 50%

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 6.4

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 1313 TO 1326 hrs at fiber-man position.

Pump 003-237. RF=6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017773

...LABOR STANDARDS
...of Occupational Safety

ANALYST WORKSHEET

7-[illegible] 161

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7649	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
T. S[illegible] & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and [illegible] reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.13 \text{ Fibers/field} \times 147}{26 \text{ liters air}} = 6.4 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE [illegible]	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Saville	11 Jan 73

Form LSB 005 5

CTD017774

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 146	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D Kelt	X-7635

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Centrifugal wet (mix) and fiber dump for pipe machine.

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

16 min. @ 2 l/m = 32 l. BP (mm) S-T P. T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica [— 5%]

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc : 3.1

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 1733 to 1749 hrs. 1700 lbs. of fiber was dumped from 100 lb. bags, respirator used part-time.

Pump 003-275, Calib. 10-72; 2 l/m = 6.4 revs

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017775

U.S. D[illegible] OF LABOR
[illegible] STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-XI 146

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7635	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73
4. RECEIVED FROM	5. REGION	
M. Sain & D. Foit	VII	

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.65 \text{ Fibers/Field} \times 147}{32 \text{ fibers air}} = 3.1 \text{ fibers/cc}$$

RETURN SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Yencich	17 Jan '73

Form LSB 033 5

CTD017776

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 165	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Raitt	X-7653

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Centerless Grind for no. 2 pipe machine - - - fiberglass.

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER Open Face AA, 0.8u

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

23 min @ 2 l/m = 46 l BP (mm) ~ S-TP T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica [~ 90%]

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers /cc = 3.5

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 1357 to 1420 hrs. (shift ended @ 1430).

Pump D03-275, Calib 10-72, 2 l/m = 6.4 rotam.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017777

DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 165

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7653	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
J. Smith & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{1.03 \text{ Fibers/Field} \times 147}{44 \text{ liters air}} = 3.5 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
11 Jan 73	W. Jewell	William Dixon	1/11/73

Form LSB 005 5

CTD017778

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 139	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D Holt	X-7628

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

N.C. pipe machine & lunchroom.

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

2 hrs @ 2 lpm = 240 l BP (mm) ~ 5-TP T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica ~ 95 %

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc = 0.6

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Personal sample on [redacted] from 1204 to 1226 hrs representing lunchroom area.

Lumo 003-287. Ratio = 6.0

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017779

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

T-SL 139

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7628	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
T. Spahn & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.18 \text{ Fibers/field} \times 147}{44 \text{ liters air}} = 0.6 \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Fenske	1/[illegible]/73

Form LSB 005 5

CTD017780

8191

☆ U. S. GOVERNMENT PRINTING OFFICE: 1972—456-590

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL) 7-52-230	2. DATE TAKEN 12-20-72	3. DATE SUBMITTED TO LAB
4. BY WHOM TAKEN W. Spain		5. LABORATORY NUMBER

6. WHERE TAKEN
- NAME OF ESTABLISHMENT: Certainteed Products Corp
- STREET ADDRESS: 600 St. Cyr Road
- CITY: Bellefontaine Neighbors
- COUNTY: St. Louis
- STATE: Mo.

7. OPERATION: No. 2 Pipe Machine mix operation

8. SAMPLING TECHNIQUE
IMPINGER ___ BUBBLER ___ ESP ___ FILTER PAPER ___ 10 mm cyclone [illegible] VM-1, 5 u
MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 1.8 lpm for 105 min = 0.190 M³ BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED
Weight → .97 mg/M³
Gross = 15.586 mg
Tare = 15.402
.184 mg
(See pg. 45 [illegible] sample WT. log Book #1)

12. DATE REPORTED FROM LAB

13. CHEMISTS: D. Holt

14. REMARKS
[redacted], personal sample from 1103 to 1245 hrs.
Machine shut down @ 11:45 a.m.

CTD017781

Pump 003-275, Calib 10-72, 1.8 lpm = 6.1 setting

Form OSHA-23
Dec. 1971

ORIGINAL

12-20-72

#2 MACHINE FIBER FEED MAIN

Mike Cusick

230-V106 MSA Model G. D03 275

I. Time 1103 Hrs. Indicated Rot. 6.1 ℓ/m = 1.8 ℓ/m (actual)

12" 200 Pressure Pipe

Shut down both #1 & #2 machines @ ~ 1145 due to low H_2O pressure caused by broken H_2O main on Riverview Dr.

F. Time 1248 Hrs. F.R. 6.1 ℓ/m = 1.8 ℓ/m (actual)

Observed on top of #2 machine @ F.T.

231- BLANK exposed and sealed immediately @ 1310 Hrs. (107V) Filter

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 12-4-72

SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-52-154	12-18-72	

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7729

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp.

STREET ADDRESS: 600 St Cyr Rd

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo

7. OPERATION: No. 2 Pipe Machine Mix Operation

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER 10 mm cyclone w/ VM-1, 5 lpm

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): 472 Liters = .472 M^3 BP (mm) STP T (C)

10. POSSIBLE INTERFERENCES

Area contains asbestos fibers, cement and silica sand

11. ANALYSIS REQUIRED

Percent Free SiO_2 / Particle weight on filter = 0.300 mg.

.03 mg ± .02 mg. → 0.62 mg/M^3

12. DATE REPORTED FROM LAB	13. CHEMISTS
1-11-73	M. D.

14. REMARKS NOTE: Low sample might be realized; however, please analyze and report any limitations on sample result.

Refer to blank sample NOS. 7-52-174 & 7-52-231

Personal sample on [redacted]

Pump 003-257; Calibrated 10-72; 1.5 lpm = 5.6 setting.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017783

...NT OF LABOR
...N STANDARDS
...ational Safety

ANALYST WORKSHEET

154
...ER

...
[X] INTACT
...

29
...

1-4-73
...

...OM

3. REGION
VII

...OF SAMPLE
Filter

...OF ANALYSIS

...2 was determined colorimetrically by the methods of Talvitie given in "...," 23, 623 and "A.I.H.A.J.," 19, 54.

dust = 0.300 mg

SiO_2 = 0.03 mg ± 0.02 mg

$$\frac{(0.03 \pm 0.02) \times 100}{0.300} = 10\% \pm 5.0\% \ SiO_2$$

...AVE SAMPLE

Used in analysis

...TED ... ANALYST
1-11-73 Myrnie Dyke

11. CALCULATIONS CHECKED BY ... DATE CH...
Willard C Dixon 1/11/73

Form ...

CTD017784

12-18-72

MACHINE #2 FIBER MAN

[redacted]

Same Union

Employee Smokes Lucky Strikes Non-filtered

154 MSA Model G Pump D03-257

I. Time 1207 Hrs. Filter Lot # 50585

I.R. 5.6 ~~l/m~~ indicated = 1.8 l/m actual

VMI Filter 101 V

Checked rotameter (adjusted up ~.2) 1223 Hrs. - using fork truck to move pallet of asbestos.

1234 Hrs. Checked rotameter - observed standing @ Silica station on #2 Pipe Machine

Vehicle door in E. Wall at S.E. corner of Bldg open during sample period.

On break @ ~1315 Hrs.

Adjusted rotameter up .2 at 1323 when Mr Cusick returned from break.

Observed dumping fiber @ ~~1315~~ 1401 Hrs - wearing respirator - adjusted rotameter up .2 l/m

In fiber feed area @ 1430 Hrs. rotameter okay.

Observed @ feed control panel @ 1445 rotameter okay.

Foreman stated he was on break @ 1454.

Observed returning from break @ 1502 - adjusted rotameter up .1 l/m

Assisted in bottom felt removal on #2 machine with fork truck

Finished felt @ 1607 Hrs.

F. Time ~~1409 Hrs.~~ 1609 Hrs. F.R. 5.8 ~~l/m~~ = 1.95 l/m

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL- 231

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7728	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
Spain	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

SiO_2 was determined colorimetrically by the methods of Talvitie given in "Anal. Chem.," 23, 623 and "A.I.H.A.J.," 19, 54.

SiO_2 = 0.01 mg

all results have been blank corrected

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1-11-73	Myrna Dyke	Willard Dixon	1/11/73

Form LSB 00S 5

CTD017786

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-St-231	12-20-72	

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Sosin	X-7728

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp

STREET ADDRESS: 600 St. Clair Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo

7. OPERATION: Blank

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER VM-1, 5 in

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): None — BP (mm) — T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED: Blank for fee Si O2 anal

12. DATE REPORTED FROM LAB	13. CHEMISTS
1-__-73	M. S.

14. REMARKS: Ref. sa. no. 7-St-154.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017787

ROUTING AND TRANSMITTAL SLIP		ACTION
1 TO (Name, office symbol or location) Dr. Russel Hendricks NIOSH Salt Lake City, Utah	INITIALS	CIRCULATE
	DATE	COORDINATION
2	INITIALS	FILE
	DATE	INFORMATION
3	INITIALS	NOTE AND RETURN
	DATE	PER CONVERSATION
4	INITIALS	SEE ME
	DATE	SIGNATURE

REMARKS

RE: Certain-teed Products Corporation - Silica

Please send results of enclosed samples to:

A. F. Castranova, AD
USDL - OSHA
210 North 12th Blvd., Room 554
St. Louis, Missouri 63101

Samples are numbered: 7-SL-154, 174, 231.

Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions.

FROM (Name, office symbol or location)	DATE
A. F. Castranova, AD	1-2-73
	PHONE 314-622-5461

OPTIONAL FORM 41 GPO 642—16—81118-1 419-015 5041-101
AUGUST 1967
GSA FPMR (41CFR) 100-11.206

CTD017788

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PHS, HSMHA
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
WESTERN AREA OCCUPATIONAL HEALTH LABORATORY
P. O BOX 8137
SALT LAKE CITY, UTAH 84108

January 12, 1973

A. F. Castranova, AD
USDOL - OSHA
210 North 12th Blvd., Room 554
St. Louis, Missouri 63101

Dear Mr. Castranova:

Enclosed are copies of the Analyst Worksheet and Sample Identification Sheet for samples No. X-7627 through X-7727 (Field Sample Nos. 7-SL-138 through 242).

Sincerely yours,

Russel H. Hendricks, Chief
Coord. Lab & Criteria Dev.

Enclosures

Dr. Russel Hendricks
NIOSH
Salt Lake City, Utah

RE: Certain-teed Products Corporation - Asbestos

As discussed in our telecon of 12-26-72, on any samples that appear to be overloaded in terms of maximum counting efficiency, please count, but show that the result may be low, i.e. equal to or greater than the number given.

Please note that the mixture for the manufacturing process is 11% asbestos fiber.

Please send results to: A. F. Castranova, AD
USDL - OSHA
210 North 12th Blvd., Room 554
St. Louis, Missouri 63101

Samples are numbered: 7-SL-138 thru 153,
7-SL-155 thru 173,
7-SL-175 thru 229,
7-SL-232 thru 242.

1-2-72

A. F. Castranova, AD

341-622-5461 Certified Mail
RRR No. 920646

JAN 1 1973

CTD017790

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PHS, HSMHA
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
WESTERN AREA OCCUPATIONAL HEALTH LABORATORY
P. O. BOX 8137
SALT LAKE CITY, UTAH 84108

January 11, 1973

A. F. Castranova, AD
USDOL - OSHA
210 North 12th Blvd., Rm. 554
St. Louis, Missouri 63101

Dear Mr. Castranova:

Enclosed are copies of the Analyst Worksheet and Sample Identification Sheet for samples No. X-7728 through X-7730 (Field Sample Nos. 7-SL-231, 154, and 174).

Sincerely yours,

Russel H. Hendricks, Chief
Coord. Lab & Criteria Dev.

Enclosures

Occupational Safety and Health Administration

RECEIVED 1-4-73

SAMPLE IDENTIFICATION SHEET

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-52-174	12-15-72	

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7730

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-teed Products Corp

STREET ADDRESS: 600 St. Clyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

Blank

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER ___ VM-1, 5 m

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET) None BP (mm) T (C)

10. POSSIBLE INTERFERENCES

11. ANALYSIS REQUIRED

Blank ~~for~~ for free SiO_2 and.

12. DATE REPORTED FROM LAB	13. CHEMISTS
1-11-73	M.D.

14. REMARKS

Ref. Sa. No. 7-52-154

VM-1, No. 105 taken @ 1623 hrs.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017792

...OR STANDARDS
... Occupational Safety

ANALYST WORKSHEET

-SL- 174

1. NUMBER	2. SEALS	3. DATE RECEIVED
-730	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. ... FROM

Salem

5. REGION

VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

SiO_2 was determined colorimetrically by the methods of Talvitie given in "Anal. Chem.," 23, 623 and "A.I.H.A.J.," 19, 54.

$SiO_2 = 0.01 mg$

8. ... SAMPLE

Used in analysis

9. ...	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE ...
1-11-73	Maurice Dyke	Willard Dixon	1/11/73

Form LSB 00S 5

CTD017793

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE
ACCOUNTABILITY RECORD

1. SAMPLE NUMBER	2. NAME OF ESTABLISHMENT
7-54-154, 174, 231	Certain-Teed Products Corp.

3. ADDRESS OF ESTABLISHMENT
600 St. Cyr Road
Bellefontaine Neighbors, Mo.

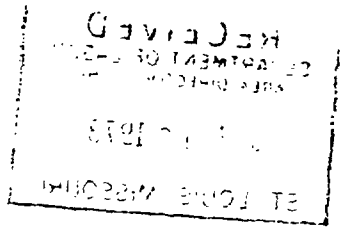
4. DATE SAMPLE RECEIVED	5. BY WHOM RECEIVED	6. DATE RECORDS RECEIVED
1-4-73	RLO	1-4-73

7. METHOD OF SHIPMENT	A. PERSONALLY FROM	C. SHIPPED FROM
		210 N. 12th Blvd. St. Louis, Mo. 63101
	B. VIA: ☑ PP ☐ REA ☐ FREIGHT ☑ AIR	D. B/L NUMBER

8. DESCRIPTION OF SHIPMENT		NUMBER	TYPE / SIZE AND TYPE	CONDITION
	A. SHIPPING CONTAINERS	1	Cardboard	
	B. SAMPLE PACKAGES	3	2 pc. Cassettes	
	C. SEAL INSCRIPTION	COPY IN FULL	W. N. Spain	CONDITION

9. SAMPLE DELIVERED				10. SAMPLE RETURNED			
DATE	AMOUNT	FROM	TO	DATE	AMOUNT	TO	FROM

11. SAMPLE DISPOSITION



ORIGINAL

Form OSHA-22
Dec. 1971

CTD017794

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE
ACCOUNTABILITY RECORD

1. SAMPLE NUMBER	2. NAME OF ESTABLISHMENT
7SL-130 through 153 7-SL-155 through 173 7-SL-175 through 229 &	CERTAIN-TEED PRODUCTS CORP. 7-SL-232 through 242

3. ADDRESS OF ESTABLISHMENT
600 St. Cyr Road
Bellefontaine Neighbors, Mo.

4. DATE SAMPLE RECEIVED	5. BY WHOM RECEIVED	6. DATE RECORDS RECEIVED
1-4-73	Donna Osburn	1-4-73

7. METHOD OF SHIPMENT	A. PERSONALLY FROM	C. SHIPPED FROM
		210 N. 12th Blvd. St. Louis, Mo. 63101
	B. VIA ☐ PP ☐ REA ☐ FREIGHT ☑ AIR	D. B/L NUMBER

8. DESCRIPTION OF SHIPMENT		NUMBER	TYPE / SIZE AND TYPE	CONDITION
	A. SHIPPING CONTAINERS	1	Cardboard	
	B. SAMPLE PACKAGES	101	3 pc. cassettes	
	C. SEAL INSCRIPTION	COPY IN FULL	W. H. Spain D. L. Holt (wks), D. Holt	

9. SAMPLE DELIVERED				10. SAMPLE RETURNED			
DATE	AMOUNT	FROM	TO	DATE	AMOUNT	TO	FROM

11. SAMPLE DISPOSITION

ORIGINAL

Form OSHA-22
Dec. 1971

CTD017795

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 232	12-20-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7717

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: BLANK

8. SAMPLING TECHNIQUE

IMPING ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u Filter Lot # 58408

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): BLANK BP (mm) STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Employee Sampled:
MSA Model G Pump
Sample Period:
Actual Rotameter Readings

BLANK opened & sealed immediately @ 1312 Hrs.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017796

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-ST 232

1. SAMPLE NUMBER	2. SEALS			3. DATE RECEIVED
X-7717	☐ BROKEN	☒ INTACT	☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Stein & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{.01 \text{ Fibers/field} \times 147}{\text{liters air}} = \text{——} \quad \text{fibers/cc}$$

RESERVE SAMPLE

Used in analysis

8. DATE REPORTED	9. ANALYST	10. CALCULATIONS CHECKED BY	11. DATE CHECKED
1/11/73	Willard Dixon	W. Key Wilcox	11 Jan 73

Form LSB 005 5

CTD017797

National Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-214 BLANK	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7701

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: BLANK

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 58408

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET) BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

~~Employee Sampled:~~
~~MSA Model G Pump~~
Sample Period:
Actual Rotameter Readings

BLANK exposed in #3 Plant @ 1420 Hrs. & sealed immediately.

Form OSHA-23
Dec. 1971

ORIGINAL

CTD017798

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 214 Blank

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
7-7701	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM: J. Spahr & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{.03 \text{ Fibers/field} \times 147}{\text{liters air}} = \text{——} \text{ fibers/cc}$$

8. REMARKS: Used in analysis

9. DATE SAMPLE ANALYZED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Yerkes	11 Jan '73

Form LSB-005 5

CTD017799

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 199	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7686

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

(Recovery Samples) Blank

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER Open Face AA, 0.8u

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

None BP (mm) T (C)

10. POSSIBLE INTERFERENCES

Portland cement and silica

11. ANALYSIS REQUIRED

(Asbestos fiber count longer than 5 um in fibers/cc) Blank

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Blank. (Millipore Lot 5D408)

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017800

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 199

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7686	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{102 \text{ Fibers/field} \times 147}{\text{liters air}} = \text{\_\_\_\_\_} \text{ fibers/cc}$$

8. RESERVE SAMPLE: Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Neville	11 Jan '73

Form LSD 1005 5

CTD017801

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 196 BLANK	12-19-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7683

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: BLANK -

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50585

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): BLANK BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES: Portland cement & silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

~~Employee Sampled:~~
MSA Model G Pump
~~Sample Period:~~
~~Actual Rotameter Readings~~

BLANK opened and exposed in #3 Plant and immediately sealed @ 1130 Hrs.

Form OSHA-23
Dec. 1971

ORIGINAL

CTD017802

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 196 Blank

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7683	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM: W. Spain & D. Holt

5. REGION: VII

6. DESCRIPTION OF SAMPLE: Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.01 \text{ Fibers/field} \times 147}{\text{liters air}} = - \text{ fibers/cc}$$

8. RESERVE SAMPLE: Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Marcello	11 Jan '73

Form LSH-008 S

CTD017803

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-176 (BLANK)	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
W. Spain	X-7663

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION: BLANK

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Lot # 50585

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET): BLANK

BP (mm) STP T (C)

10. POSSIBLE INTERFERENCES: Portland Cement & Silica

11. ANALYSIS REQUIRED: Asbestos fiber count longer than 5 um in fibers/cc

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

Exposed & sealed @ 1628 Hrs. as a BLANK.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017804

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 176 Blank

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7663	[X] INTACT [ ] BROKEN [ ] NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{\text{(C) Fibers/field} \times 147}{\text{liters air}} = \text{\_\_\_\_} \text{ fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Neville	11 Jan '73

Form LSE 005 5

CTD017805

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL-171 (BLANK)	12-18-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
N. Spain	X-7659

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION

8. SAMPLING TECHNIQUE

IMPING # ____ BUBBLER ____ ESP ____ FILTER PAPER: Open Face AA, 0.8u Filter Lot # 50565

MATERIAL ____ BAGS ____ SETTLED DUST ____ GRAB SAMPLE ____

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET)

BLANK

BP (mm) ~ STP T (C)

10. POSSIBLE INTERFERENCES

Portland cement & silica

11. ANALYSIS REQUIRED

Asbestos fiber count longer than 5 um in fibers/cc

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS

opened & Sealed @ 1428 Hrs. as BLANK

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017806

U.S. DEPARTMENT OF LABOR
BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

7-SL 171 Blank

1. W[illegible] NUMBER	2. SEALS	3. DATE RECEIVED
X-7669	☐ BROKEN ☒ INTACT ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{0.04 \text{ Fibers/field} \times 147}{\text{liters air}} = \text{fibers/cc}$$

8. DISPOSITION OF SAMPLE

Used in analysis

9. DATE REPORTED	10. ANALYST	11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Marcille	11 Jan '73

Form LSB 005 5

CTD017807

Occupational Safety and Health Administration

SAMPLE IDENTIFICATION SHEET

RECEIVED 1-4-73

1. SAMPLE NUMBER (REGIONAL)	2. DATE TAKEN	3. DATE SUBMITTED TO LAB
7-SL- 167	12-15-72	1-2-73

4. BY WHOM TAKEN	5. LABORATORY NUMBER
D. Holt	X-7655

6. WHERE TAKEN

NAME OF ESTABLISHMENT: Certain-Teed Products Corp.

STREET ADDRESS: 600 St. Cyr Road

CITY	COUNTY	STATE
Bellefontaine Neighbors	St. Louis	Mo.

7. OPERATION Blank

8. SAMPLING TECHNIQUE

IMPING ___ BUBBLER ___ ESP ___ FILTER PAPER Open Face AA, 0.8u

MATERIAL ___ BAGS ___ SETTLED DUST ___ GRAB SAMPLE ___

9. AIR VOLUME SAMPLED (IN LITERS AND CUBIC FEET) BP (mm) T (C)

10. POSSIBLE INTERFERENCES

Portland Cement & Silica

11. ANALYSIS REQUIRED

(Asbestos fiber count longer than 5 um in fibers/cc) Blank

12. DATE REPORTED FROM LAB	13. CHEMISTS

14. REMARKS Cigar smoking area - Taken @ 2:10 p.m.

ORIGINAL

Form OSHA-23
Dec. 1971

CTD017808

BUREAU OF LABOR STANDARDS
Office of Occupational Safety

ANALYST WORKSHEET

T-SL 167

1. SAMPLE NUMBER	2. SEALS	3. DATE RECEIVED
X-7655	☒ INTACT ☐ BROKEN ☐ NONE	1-4-73

4. RECEIVED FROM	5. REGION
W. Spain & D. Holt	VII

6. DESCRIPTION OF SAMPLE

Filter

7. SUMMARY OF ANALYSIS

Fibers greater than five microns in length were counted with a Zeiss phase contrast microscope having a 40X objective and a 10X eyepiece with a Patterson globe and circle reticle in the eyepiece. A minimum of 100 fields or 100 fibers were counted and the average number of fibers per field was determined.

$$\frac{103 \text{ Fibers/field} \times 147}{\text{—} \text{ liters air}} = \text{—} \quad \text{fibers/cc}$$

8. RESERVE SAMPLE

Used in analysis

9. DATE REPORTED TO ANALYST		11. CALCULATIONS CHECKED BY	12. DATE CHECKED
1/11/73	Willard Dixon	W. Reville	17 Jan '73

Form LSB 00S 5

CTD017809

CERTAIN-TEED PRODUCTS CORPORATION 600 St. Cyr Road, St. Louis, Missouri 63137 314/UN7-6567

CERTAINTEED

PIPING AND
PLASTICS INDUSTRIES

Pipe Plant
Pipe & Plastics Group

Corp.

Certain
Valley Forge, Pa
19481

CTD017810