

Asbestos Report – Cargill’s



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Asbestos Building Inspection Report

Cargill Corporation
Springfield Facility
1525 East Phillips Street
Springfield, IL 62702-4128

Prepared for:

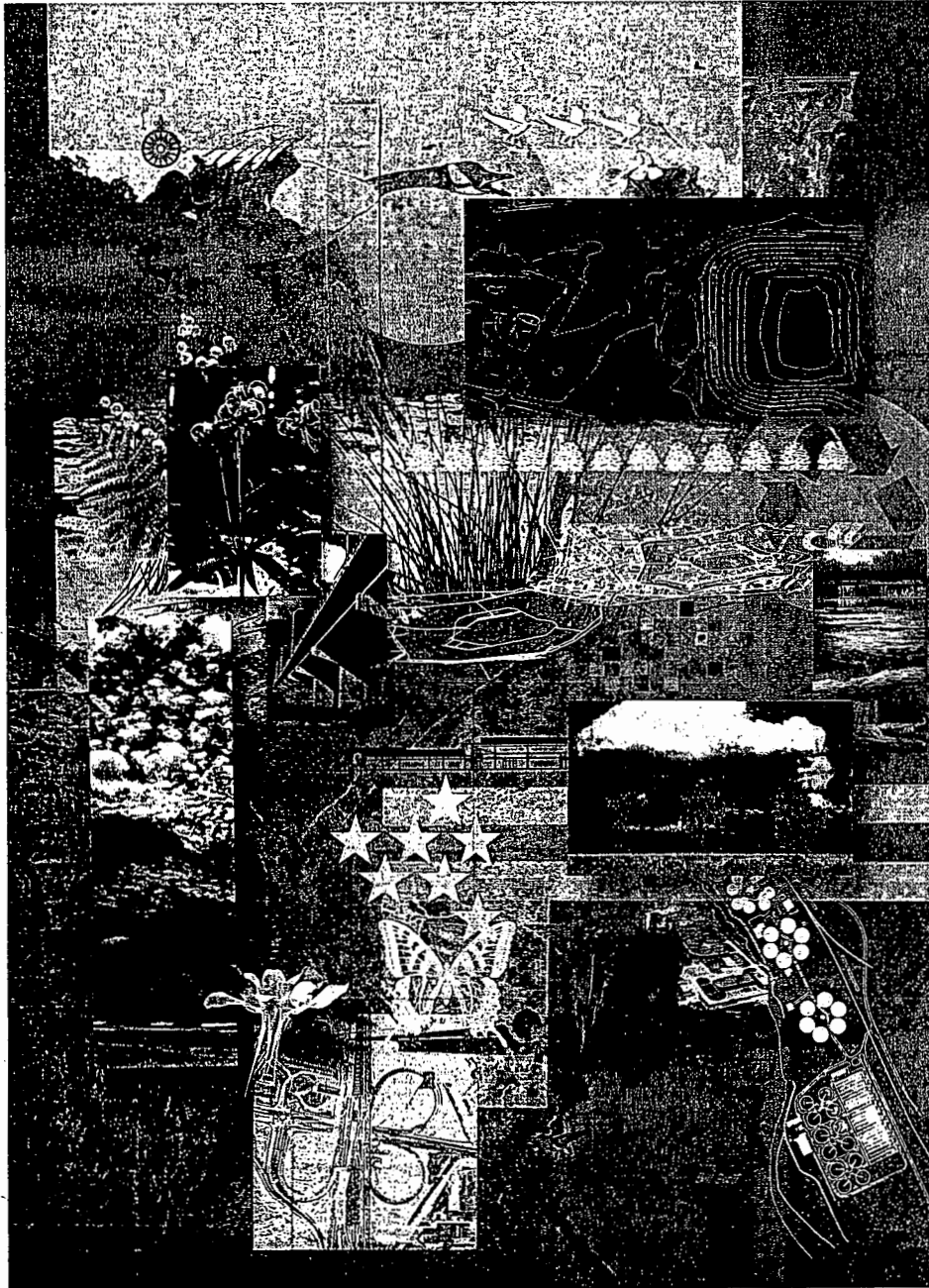
Mr. Joe Ross
Cargill Corporation
1525 East Phillips Street
Springfield, IL 62702-4128

Prepared by:

Rust Environment & Infrastructure
11785 Highway Drive, Suite 100
Cincinnati, OH 45241
Project No. 43776.100

December 1996

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*Quality through
teamwork*

December 1996

**Asbestos Building Inspection Report
Cargill Corporation
Springfield Dry Milling Facility**

Prepared for:

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Cargill Corporation
Springfield Dry Milling Facility**

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RUST Rust Environment & Infrastructure Inc.

A Rust International Company
3033 Campus Drive North
Suite 175
Minneapolis, MN 55441

Phone 612.551.1001
Fax 612.551.2499

December 9, 1996

Mr. Joe Ross
Plant Superintendent
Cargill Corporation
1525 East Phillips Street
Springfield, IL 62702-4128

Re: Asbestos Building Inspection Report
Springfield Dry Milling Facility, 1525 East Phillips Street, Springfield, Illinois
Rust Environment & Infrastructure Project No. 43776.100

Dear Mr. Ross:

This letter and the attached information document the results of the facility inspection for asbestos-containing materials conducted by Rust Environment & Infrastructure (Rust) at the Cargill Springfield Dry Milling facility located at 1525 East Phillips Street in Springfield, Illinois.

EXECUTIVE SUMMARY

On November 13, 14, and 15, 1996 Rust conducted an asbestos inspection of the Cargill Incorporated facility located in Springfield, Illinois. Friable asbestos-containing materials were determined to be present in eight of the facility's forty-eight homogeneous areas. The friable materials include pipe insulation, fitting insulation, tank insulation and dryer insulation. Non-friable asbestos-containing materials were determined to be present in twelve of the homogeneous areas. The materials consisted of cementitious (Transite) board, ceiling tile and floor tile and/or its associated mastic.

Some of the friable materials were observe to be in damaged condition. The majority of damaged materials were present in vacant buildings or infrequently used areas. The recommended response actions for these damaged materials is to remove/repair the damaged materials, as practical and consistent with planned future use of the buildings. Removal and repair is recommended for damaged friable materials in actively used areas. Remaining friable materials in good condition that are left in place can be managed on a long term basis by inclusion in a facility guided operation and maintenance program. Most of the non-friable asbestos-containing materials were observed to be in good

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condition and do not require removal or repair response action at this time; however, some areas of heavily damaged floor tile were observed. The areas of damaged floor tile were not in actively used areas and recommended response action includes removal of these materials, as practical. The undamaged non-friable materials can be managed on a long term basis by inclusion in a facility guided operation and maintenance program.

SCOPE OF SERVICES

Rust was retained by Cargill Corporation to conduct an inspection of the above-referenced facility to determine the presence of asbestos-containing materials. The scope of services performed included the following:

- a. Rust conducted a survey of accessible interior facility building materials.
- b. Rust identified homogeneous materials suspected to contain asbestos.
- c. Rust collected representative samples from suspected asbestos-containing homogeneous materials.
- d. Rust collected and submitted samples for analysis by polarized light microscopy (PLM) according to the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," Appendix E to Subpart E, Code of Federal Regulations, Title 40, Part 763, July 1, 1995, pages 541-546.

INSPECTION RESULTS

On November 13, 14 and 15, 1996, Ms. Karen Hendrickson of Rust conducted a facility inspection according to the scope of services summarized above. Ms. Hendrickson is accredited to perform inspections for asbestos-containing materials per the "Asbestos Model Accreditation Plan," Appendix C to Subpart E, Part 3, Code of Federal Regulations, Title 40, Part 763, July 1, 1995, pages 527-528. (See "Certificates of Accreditation" Attachment 1)

Suspect Asbestos-Containing Materials

A total of forty-eight homogeneous areas of suspect building materials were identified during the inspection. All accessible rooms and building areas were inspected for suspect asbestos-containing materials and a sampling scheme was developed based on the homogeneous areas. This resulted in the collection of one hundred samples to confirm or deny the presence of asbestos in the forty-eight homogeneous building material areas. Sample location descriptions of suspect materials which resulted in non-asbestos content are identified in the laboratory report located in Attachment 3.

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Conversations with Cargill personnel indicated that some remediation of asbestos-containing materials has occurred in the facility. With the exception of a small amount of pipe insulation in the basement of the bulk plant and some insulation in the basement hallway of the mill near the maintenance area, asbestos-containing materials were removed from the A&B Mill and the Bulk plant. A steam line running between the Boiler Room and the Bulk Plant was also reportedly remediated by removal of asbestos-containing pipe insulation. One of the two natural gas dryers insulated with suspect materials was removed from the 8180 building in the early 1990s and the main office area was renovated in the late 1980s. Remediation was also planned for the Bulk Plant basement and Warehouse No. 1 pipe insulation, which may have occurred by the time of this report publication.

An asbestos inspection was conducted previously in the facility around 1990. The inspection report was not available to Rust for review; however, some areas where asbestos-containing materials were identified previously were labeled. Some areas in the facility where replacement materials were used and known to be asbestos free were labeled as such. Some of the pipe insulation that was labeled as "Asbestos Free" had the same or similar appearance to pipe insulation that was labeled as "Contains Asbestos" or was unlabeled. For the purpose of this inspection, Rust included all materials labeled as asbestos-containing and unlabeled suspect materials in the quantity estimates. Materials that were labeled as "Asbestos Free" or those individual pipe runs with samples exhibiting no asbestos detection were excluded from the quantity estimates. To verify the presence of asbestos in pipe insulation in the facility, each portion of pipe run insulation would need to be sampled separately since appearance could not be relied upon to determine homogenous areas. In some areas, suspect pipe insulation was found beneath a layer of fibrous glass insulation. In these areas, the pipe insulation runs were included in the quantity estimates for the area.

Summary of Asbestos-Containing Materials

A listing of rooms and/or areas which were determined to have asbestos-containing materials is provided in Attachment 2, Table 1 "Summary of Asbestos-Containing Materials". Of the forty-eight suspect homogeneous areas twenty were positively identified or are assumed to have asbestos-containing materials. The twenty homogeneous areas are:

<i>Area</i>	<i>Material Description</i>	<i>Location</i>
1	Boiler Gasket	Boiler Room
2	Interior hard boiler insulation	Boiler Room
3	Pipe insulation	Boiler room, bulk plant basement, Warehouse No. 1

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4	Pipe insulation	Mill basement, Office, Bakery Mix, Grocery Mix, Warehouse No. 4, Warehouse No. 7, Warehouse No. 8, Warehouse No. 9, C Mill, 8180, Storage Annex, Forklift Shop
5	Tank Insulation	Bakery Mix
6	Tank Insulation	Grocery Mix
7	Dryer Insulation	8180
8	Dryer Gasket	8180
9	Dryer Insulation	Elevator area
10	Fitting Insulation	Throughout facility with pipe insulation
11	Floor Tile - Gray 12" x 12"	Pipe shop, A&B Mill
12	Floor Tile - Brown, and mastic	Grocery Mix - 5th Floor office
13	Floor Tile - Beige and mastic	Grocery Mix - 4th Floor Test Lab
14	Floor Tile - White 9" x 9" and mastic	Office area: storage room and copy room
15	Floor Tile - Beige 12" x 12"	Office hallway
16	Floor Tile - Red and White 9" x 9" and mastic	Warehouse No. 8 Lunch Room and hallway
17	Black mastic on red floor tile	Warehouse No. 8 Locker Room and Warehouse No. 9
18	Ceiling tile	Grocery Mix - 4th Floor Test Lab
19	Cement board in hood	Office Laboratory
20	Cement board (transite) panels	Warehouse No. 9

Sample S-1 represents the boiler gasket material that lines the boilers and sample S-4 represents the hard interior boiler insulation. Sample S-12 represents the pipe insulation in the boiler room, the Bulk Plant Basement and Warehouse No. 1. Sample S-33 represents the pipe insulation found throughout most of the facility and the assumptions used to identify pipe insulation for this evaluation were

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discussed previously. The tanks in Bakery Mix and Grocery were labeled as asbestos-containing and were assumed to be such. Sample S-86 represents the dryer insulation and S-88 represents the dryer gasket insulation in the 8180 Building. This dryer is covered with a metal shell and is five stories high. Cargill personnel report that only the top portion of the dryer, visible on the 8th floor, is insulated. The quantity of the gasket material was difficult to determine with the metal jacket in place. Sample S-99 represents the dryer insulation in the elevator area. Due to health and safety concerns, Rust was not permitted to access the top portion of the dryer; however, this unit was estimated to be approximately five stories high. Fitting insulation is represented by sample S-91. Total fittings were not counted as part of this investigation; however, a rough quantity estimate is given in Attachment 2. Sample S-27 represents the floor tile located in the pipe shop of A&B Mill. Sample S-36 represents the floor tile located in the Grocery Mix 5th Floor office. Sample S-38 represents the floor tile in the Grocery Mix 4th Floor test lab. Sample S-44 represents the white portion and Sample S-45 represents the green portion of the green and white checkerboard floor tile located in the office store room and copy room. Sample S-64 represents the floor tile in the office hallway. Sample S-74 represents the floor tile located in the Warehouse No. Lunch Room and the hallway. Sample S-76 represents the floor tile mastic on the red tile in Warehouse No. 8 locker room and Warehouse No. 9. Sample S-40 represents the ceiling tile in the Grocery Mix 4th Floor test lab. The cement board in the laboratory hood in the office area was not sampled to avoid damage and was assumed to be asbestos-containing. Sample S-85 represents the cement board panels located in Warehouse No. 9.

Facility personnel requested more detailed sampling and description of an area of damaged fitting insulation in the C Mill Basement. Samples were collected near the northwest corner of the building along the west wall. The samples were collected from insulation on water pipes near an area that had recently been repaired. Three samples were taken of fitting insulation and all of these samples contained 2% Chrysotile asbestos and less than 1% amosite asbestos. The pipe insulation was a paper-type insulation with 2% chrysotile asbestos in the tan paper and 50% chrysotile asbestos in the gray paper; this pipe insulation did not appear to be damaged at the time of the inspection. The pipe immediately adjacent to the repair area was insulated with foam material and a small amount of fibrous glass.

A laboratory report of sample analysis, including sample material identification, sample collection location, and percentage asbestos content has been provided by Steve Moody Micro Services, 1510 Randolph, Suite 602, Carrollton, Texas. A copy of this report can be found in Attachment 3. Steve Moody Micro Services is accredited by the National Institute of Standards and Technology (NIST) as participants in the National Voluntary Laboratory Accreditation Program (NVLAP) to perform PLM analysis, Laboratory No. 2056.

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Sample collection locations for all positive sample results are demarcated on facility-specific simple drawings which are located in Attachment 4.

DISCUSSION

Both friable and non-friable asbestos-containing materials, as categorized by the federal and state regulatory agencies, were identified in the facility. The condition of these materials ranged from good to significantly damaged. The majority of damaged materials were present in vacant buildings or infrequently used areas. The recommended response actions for these damaged materials is to remove/repair the damaged materials, as practical and consistent with planned future use of the buildings. Removal and repair is recommended for damaged friable materials in actively used areas. Remaining friable materials in good condition that are left in place can be managed on a long term basis by inclusion in a facility guided operation and maintenance program. Most of the non-friable asbestos-containing materials were observed to be in good condition and do not require removal or repair response action at this time; however, some areas of heavily damaged floor tile were observed. The areas of damaged floor tile were not in actively used areas and recommended response action includes removal of these materials, as practical. The undamaged non-friable materials can be managed on a long term basis by inclusion in a facility guided operation and maintenance program.

Non-friable asbestos-containing materials should not cause concern during routine building utilization. However, these materials should not be subjected to maintenance/renovation activities which requires drilling, cutting, sawing, grinding or sanding. Maintenance personnel and outside contractors should be notified of the material's presence and location prior to conducting work activities that may disturb or damage the identified asbestos-containing materials.

At the time of this report over 2,200 asbestos-containing products were commercially available. Some of these products are typically excluded from inspection requirements. For this inspection, and unless otherwise reported, the asbestos inspectors either excluded from the list, or assumed the following materials to be asbestos-containing materials, in Table 1:

-laboratory counter tops	-terrazzo	-caulks
-core insulations for fire doors	-brick	-concrete/cement
-mortars	-glues	-roofing tars/felts
-tapes	-electrical panel insulation	-electrical wire insulation

These nonfriable materials require excessive destructive sampling methods which would cause more fiber release than would normally be expected during its normal life usage. Electrical wires and related devices are not normally sampled due to health and safety issues. In general, these types of

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materials were either inaccessible for inspection or were observed by Rust to be in generally good condition.

Additional asbestos-containing materials may also be present in areas currently inaccessible for inspection (i.e., above fixed ceilings, inside block walls, etc.). The presence of these materials should not affect routine building utilization. Additional inspections may be necessary before and/or during times of renovation / demolition when such areas become accessible.

If you have any questions or concerns regarding the information reported, please contact Rust at your convenience.

Sincerely,

Karen S. Hendrickson
Assistant Project Manager
(513) 483-5345

Paul J. Gerstner
Project Manager
(612) 551-2423

Attachments: As Noted.



ATTACHMENT 1

Certificates of Accreditation



State of Illinois
Department of Public Health

A059860

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

JOHN R. LUMPKIN, M.D.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE 05/15/97	CATEGORY 5319	ID NUMBER 100-7486
KAREN HENDRICKSON		
INSPECTOR		

BUSINESS ADDRESS

KAREN HENDRICKSON
3883 FULTON GROVE ROAD
CINCINNATI OH 45245

THIS LICENSE IS NOT VALID IF YOUR IDPH
REFRESHER COURSE CERTIFICATE IS NOT CURRENT

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ATTACHMENT 2

**Table 1:
Summary of Asbestos-Containing Materials**

TABLE 1
SUMMARY OF ASBESTOS-CONTAINING MATERIALS

CARGILL CORPORATION
Springfield Dry Milling Facility
1525 East Phillips Street, Springfield, Illinois
Rust Environment & Infrastructure Project No. 43776.100
December, 1996

Room/Area Location	Asbestos-Containing Material Description	Sample, Homogeneous Area	Estimated Amount	Unit of Measurement	Assessment Category	Estimated Removal Expense	Recommended Response Action
Boiler House							
Boiler Room	Boiler Gasket	S-1 and S-2 HA#1	30	Linear Feet	NA, Non-friable Material	\$500.00	Operations and Maintenance
Boiler Room	Boiler interior hard insulation	S-4, S-5 and S-6, HA#2	40	Square Feet	NA, Non-friable Material	\$500.00	Operations and Maintenance
#1 Boiler Room (large diameter pipe above incinerator)	Pipe Insulation	S-12 HA#3	400	Linear Feet	1	\$8,000.00	Approximately 25% damaged - repair/remove damaged materials, then O&M
Mill/Bulk Plant							
Pipe Shop	Floor Tile - Gray 12" x 12"	S-27 and S-28 HA#11	400	Square Feet	NA, Non-friable Material	\$1,000.00	Operations and Maintenance
#2 Basement near maintenance area	Pipe Insulation	Assumed and/or labeled HA#4	400	Linear Feet	1	\$8,000.00	Approximately 2 to 3% damaged - repair/remove damaged materials, then O&M
#3 Bulk Plant Basement - near stairwell	Pipe insulation	S-23 HA#3	110	Linear Feet	1	\$2,200.00	Approximately 5% damaged - repair/remove damaged materials, then O&M
Main Office and Bakery Mix							
Office Storage Room and Copy Room	Floor Tile - Green and White 9" x 9" Checkerboard and black mastic	S-44, S-45, S-46 and S-47 HA#14	200	Square Feet	NA, Non-friable Material	\$500.00	Operations and Maintenance
Office Hallway	Floor Tile - Beige 12" x 12"	S-64, S-65 and S-66 HA#15	1,250	Square Feet	NA, Non-friable Material	\$3,200.00	Operations and Maintenance
Laboratory	Cement Board inside hood	Assumed HA#19	20	Square Feet	NA, Non-friable Material	\$500.00	Operations and Maintenance
#4 Bakery Mix - 16 Elevation, Small room off hallway	Pipe insulation (throughout office and elevation 16)	S-67 and HA#4	200	Linear feet	1	\$4,000.00	Approximately 20% damaged - repair/remove damaged materials
Runway between Bakery Mix and Grocery Mix buildings	Pipe Insulation	Assumed and/or labeled HA#4	320	Linear Feet	5	\$1,600.00	Repair minor damage then O&M
Bakery Mix - 98 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	8	Linear Feet	1	\$200.00	Remove damaged riser insulation
#5 Bakery Mix - 85 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	50	Linear Feet	1	\$1,000.00	Approximately 30% damaged - repair/remove damaged materials, as practical
#6 Bakery Mix - 58 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	175	Linear Feet	1	\$3,500.00	Approximately 30% damaged - repair/remove damaged materials, as practical
#7 Bakery Mix - 44 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	1,200	Linear Feet	1	\$6,000.00	Approximately 15% damaged - repair/remove damaged materials, as practical

TABLE 1

SUMMARY OF ASBESTOS-CONTAINING MATERIALS

CARGILL CORPORATION
 Springfield Dry Milling Facility
 1525 East Phillips Street, Springfield, Illinois
 Rust Environment & Infrastructure Project No. 43776.100
 December, 1996

Room/Area Location	Asbestos-Containing Material Description	Sample, Homogeneous Area	Estimated Amount	Unit of Measurement	Assessment Category	Estimated Removal Expense	Recommended Response Action
#8 Bakery Mix - 44 Elevation	Tank Insulation	Labeled HA#5	950	Square Feet	1 - (Tank E) 5 - (Tanks B, C-D, and F)	\$14,250.00	Approximately 15% damage on Tank E - repair/remove damaged materials as practical; O&M for remaining tanks
#9 Bakery Mix - 36 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	250	Linear Feet	1	\$5,000.00	Approximately 15% damaged - repair/remove damaged materials, as practical
#10 Bakery Mix - 30 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	1,100	Linear Feet	1	\$22,000.00	Approximately 10% damaged - repair/remove damaged materials, as practical
#11 Bakery Mix - 26 Elevation	Pipe Insulation	Assumed and/or labeled HA#4	100	Linear Feet	1	\$2,000.00	Approximately 10% damaged - repair/remove damaged materials, as practical
#12 Bakery Mix - Zero Elevation	Pipe Insulation	Assumed and/or labeled HA#4	2,700	Linear Feet	1	\$54,000.00	Approximately 10% damaged - repair/remove damaged materials, as practical
Grocery Mix Building							
#13 Penthouse	Pipe Insulation	Assumed and/or labeled HA#4	400	Linear Feet	1	\$8,000.00	Approximately 20% damaged - repair/remove damaged materials, as practical
#14 5th Floor	Pipe Insulation	S-33 HA#4	800	Linear Feet	1	\$16,000.00	Approximately 15% damaged - repair/remove damaged materials, as practical
#15 5th Floor - Office	Floor Tile - Brown and Mastic - Black	S-36 HA#12	120	Square Feet	NA, Non-friable Material	\$500.00	Operations and Maintenance
#16 4th Floor	Pipe Insulation	S-42 and S-43 HA#4	300	Linear Feet	1	\$6,000.00	Approximately 15% damaged - repair/remove damaged materials, as practical
#17 4th Floor - Test Lab	Floor Tile - Beige and Mastic - Black	S-38 and S-39 HA#13	1,360	Square Feet	NA, Non-friable Material	\$6,800.00	Operations and Maintenance
#18 4th Floor - Test Lab	Ceiling Tile 2' x 2' hard white	S-40 and S-41 HA#18	1,360	Square Feet	NA, Non-friable Material	\$10,200.00	Operations and Maintenance
#19 3rd Floor	Pipe Insulation	Assumed and/or labeled HA#4	100	Linear Feet	1	\$2,000.00	Approximately 5% damaged - repair/remove damaged materials, as practical
#20 2nd Floor	Pipe Insulation	Assumed and/or labeled HA#4	1,000	Linear Feet	1	\$20,000.00	Approximately 5% damaged - repair/remove damaged materials, as practical
#21 1st Floor (Includes Warehouse 3)	Pipe Insulation	Assumed and/or labeled HA#4	1,100	Linear Feet	1	\$22,000.00	Approximately 10% damaged - repair/remove damaged materials, as practical

TABLE 1

SUMMARY OF ASBESTOS-CONTAINING MATERIALS

CARGILL CORPORATION
 Springfield Dry Milling Facility
 1525 East Phillips Street, Springfield, Illinois
 Rust Environment & Infrastructure Project No. 43776.100
 December, 1996

Room/Area Location	Asbestos-Containing Material Description	Sample, Homogeneous Area	Estimated Amount	Unit of Measurement	Assessment Category	Estimated Removal Expense	Recommended Response Action
#22 Basement	Pipe Insulation	Assumed and/or labeled HA#4	2,600	Linear Feet	1	\$52,000.00	Approximately 5 - 10% damaged - repair/remove damaged materials, as practical
#23 Basement	Tank Insulation	Labeled HA#6	1,300	Square Feet	5	\$19,500.00	Operations and Maintenance
Warehouse No. 1							
#24 1st Floor	Pipe insulation	Assumed and/or labeled HA#3	260	Linear Feet	1	\$5,260.00	Repair/remove damaged materials
#25 2nd Floor	Pipe insulation	Assumed and/or labeled HA#3	3	Linear Feet	1	(Included above)	Repair/remove damaged materials
Warehouse No. 4							
#26 1st Floor	Pipe insulation	Assumed and/or labeled HA#4	1,900	Linear Feet	1	\$38,000.00	Approximately 15% damaged - repair/remove damaged materials, then O&M
#27 2nd Floor	Pipe insulation	Assumed and/or labeled HA#4	1,900	Linear Feet	1	\$28,000.00	Approximately 10% damaged - repair/remove damaged materials, then O&M
Warehouse No. 7							
#28 Warehouse and small office	Pipe insulation	Assumed and/or labeled HA#4	60	Linear Feet	5	\$1,200.00	Operations and Maintenance
Warehouse No. 8							
29 1st Floor	Pipe insulation	Assumed and/or labeled HA#4	2,700	Linear Feet	1	\$54,000.00	Approximately 10% damaged - repair/remove damaged materials, then O&M
30 Lunch room and hallway	Floor tile - Red and white 9"x 9" and Mastic - black	S-74 and S-75 HA#16	300	Square Feet	NA, Non-friable Material	\$750.00	Badly damaged - remove, as practical
31 Locker room and office	Black mastic on red floor tile	S-76 and S-77 HA#17	1,200	Square Feet	NA, Non-friable Material	\$3,000.00	Operations and Maintenance
32 Stairwell	Pipe insulation	Assumed and/or labeled HA#4	300	Linear Feet	1	\$6,000.00	Approximately 5% damaged - repair/remove damaged materials, then O&M
33 Basement compressor room	Pipe insulation	S-101/labeled HA#4	150	Linear Feet	1	\$3,000.00	Approximately 50% damaged - remove damaged materials
Warehouse No. 9							
Warehouse area	Cement Board (transite)	S-85 HA#20	1,400	Square Feet	NA, Non-friable Material	\$10,500.00	Operations and Maintenance
34 Warehouse area	Floor Tile - red, with mastic	Assumed HA#17	900	Square Feet	NA, Non-friable Material	\$2,250.00	Damaged - remove, as practical
35 Warehouse area	Pipe insulation	Assumed and/or labeled HA#4	200	Linear Feet	1	\$4,000.00	Approximately 5% damaged - repair/remove damaged materials, then O&M
C Mill							

TABLE 1

SUMMARY OF ASBESTOS-CONTAINING MATERIALS

CARGILL CORPORATION
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 1525 East Phillips Street, Springfield, Illinois
 Rust Environment & Infrastructure Project No. 43776.100
 December, 1996

Room/Area Location	Asbestos-Containing Material Description	Sample, Homogeneous Area	Estimated Amount	Unit of Measurement	Assessment Category	Estimated Removal Expense	Recommended Response Action
1st Floor	Pipe insulation	Assumed and/or labeled HA#4	1,200	Linear Feet	1	\$24,000.00	Approximately 10% damaged - repair/remove damaged materials as practical, then O&M
2nd Floor	Pipe insulation	Assumed and/or labeled HA#4	350	Linear Feet	1	\$7,000.00	Approximately 10% damaged - repair/remove damaged materials as practical, then O&M
3rd Floor	Pipe insulation	Assumed and/or labeled HA#4	500	Linear Feet	1	\$10,000.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
4th Floor	Pipe insulation	Assumed and/or labeled HA#4	120	Linear Feet	1	\$2,400.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
5th Floor	Pipe insulation	Assumed and/or labeled HA#4	150	Linear Feet	1	\$3,000.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
6th Floor	Pipe insulation	Assumed and/or labeled HA#4	35	Linear Feet	1	\$700.00	Approximately 2% damaged - repair/remove damaged materials as practical, then O&M
7th Floor	Pipe insulation	Assumed and/or labeled HA#4	85	Linear Feet	1	\$1,700.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
8th Floor	Pipe insulation	Assumed and/or labeled HA#4	55	Linear Feet	1	\$1,100.00	Approximately 2% damaged - repair/remove damaged materials as practical, then O&M
9th Floor	Pipe insulation	Assumed and/or labeled HA#4	130	Linear Feet	1	\$2,600.00	Approximately 25% damaged - repair/remove damaged materials as practical, then O&M
Basement	Pipe insulation	Assumed and/or labeled HA#4	1,300	Linear Feet	1	\$26,000.00	Approximately 15% damaged - repair/remove damaged materials as practical, then O&M
8180 Building							

TABLE 1
SUMMARY OF ASBESTOS-CONTAINING MATERIALS

CARGILL CORPORATION
Springfield Dry Milling Facility
1525 East Phillips Street, Springfield, Illinois
Rust Environment & Infrastructure Project No. 43776.100
December, 1996

Room/Area Location	Asbestos-Containing Material Description	Sample, Homogeneous Area	Estimated Amount	Unit of Measurement	Assessment Category	Estimated Removal Expense	Recommended Response Action
3rd Floor	Pipe insulation	Assumed and/or labeled HA#4	3,500	Linear Feet	1	\$70,000.00	Approximately 15% damaged - repair/remove damaged materials as practical, then O&M
4th Floor	Pipe insulation	Assumed and/or labeled HA#4	200	Linear Feet	1	\$4,000.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
5th Floor	Pipe insulation	Assumed and/or labeled HA#4	550	Linear Feet	1	\$11,000.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
6th Floor	Pipe insulation	Assumed and/or labeled HA#4	300	Linear Feet	1	\$6,000.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
7th Floor	Pipe insulation	Assumed and/or labeled HA#4	800	Linear Feet	1	\$16,000.00	Approximately 5% damaged - repair/remove damaged materials as practical, then O&M
8th Floor	Pipe insulation	Assumed and/or labeled HA#4	100	Linear Feet	1	\$2,000.00	Approximately 15% damaged - repair/remove damaged materials as practical, then O&M
8th Floor	Dryer insulation	S-86 and S-87 HA#7	230	Square Feet	5	\$3,450.00	Operations and Maintenance
8th Floor	Dryer Gasket	S-88 and S-89 HA#8	50 ?	Linear Feet	5	\$1,000.00	Operations and Maintenance
Storage Annex							
Storage Annex	Pipe insulation	Assumed and/or labeled HA#4	125	Linear Feet	1	\$2,500.00	Approximately 2 - 3% damaged - repair/remove damaged materials as practical, then O&M
Forklift Shop							
Forklift Shop	Pipe insulation	Assumed and/or labeled HA#4	70	Linear Feet	1	\$1,400.00	Approximately 10% damaged - repair/remove damaged materials as practical
Elevator Area							
Elevator (Old Dryer)	Dryer Insulation	S-99 and S-100 HA#9	2,000	Square Feet	1	\$30,000.00	Damage percent unknown, repair/remove as practical
Whole Facility							

TABLE 1
SUMMARY OF ASBESTOS-CONTAINING MATERIALS

CARGILL CORPORATION
Springfield Dry Milling Facility
1525 East Phillips Street, Springfield, Illinois
Rust Environment & Infrastructure Project No. 43776.100
December, 1996

Room/Area Location	Asbestos-Containing Material Description	Sample, Homogeneous Area	Estimated Amount	Unit of Measurement	Assessment Category	Estimated Removal Expense	Recommended Response Action
(See Note 10)	Fittings	S-91, S-92 and S-93 HA#10	5,000 to 8,000	Fittings	1	\$250,000 to \$400,000	Remove/repair as recommended with adjacent pipe insulation, then O&M

NOTES:

- 1) Room/area location, asbestos-containing material description, and estimated amounts are the results of the Rust asbestos inspection conducted on November 13, 14, 15, 1996.
- 2) Estimated removal expenses are provided per material per location assuming the material is removed as an independent project. Economies for combining multiple materials to a single response action project are not represented.
- 3) Estimated removal expenses are based upon 1996 labor and material rates, and do not include air monitoring expenses.
- 4) Estimated removal expenses do not include project design and consulting expenses. Typical project design and consulting expenses range from \$1,200-\$2,500 per project. (These consulting expenses are independent of air monitoring expenses.)
- 5) Asbestos hazard abatement response action expense estimates for "removal" do not account for replacement materials. Add 40-60% to the expense estimate provided if replacement materials are to be included.
- 6) The recommended annual budget for asbestos-related operations and maintenance activities is \$1,000.
- 7) NA signifies non-applicable. EPA requires only friable asbestos-containing materials be categorized.
- 8) HA signifies Homogeneous Area.
- 9) Bakery Mix, Grocery Mix, 8180, C Mill buildings and old dryer area no longer in use. Recommended response actions to be conducted as practical and in accordance with planned future use of the buildings or areas.
- 10) Individual fittings were not counted during inspection. Fitting numbers are estimates only.

ASSESSMENT CATEGORIES:

- 1) Damaged or significantly damaged thermal system insulation asbestos-containing material (ACM).
- 2) Damaged friable surfacing ACM.
- 3) Significantly damaged friable surfacing ACM.
- 4) Damaged or significantly damaged friable miscellaneous ACM.
- 5) Asbestos-containing building material (ACBM) with potential for damage.
- 6) ACBM with potential for significant damage.
- 7) Any remaining friable ACBM or friable suspected ACBM.

Asbestos Inspector: Karen S. Hendrickson

Signed: _____

Certificate of Accreditation: 100-7486

H:\CARGILL\43776.100\SUM\TABLE.WK4

ATTACHMENT 3

Laboratory Results

PLM REPORT

Steve Moody Micro Services, Inc.
1510 Randolph, Suite 602
Carrollton, Texas 75006 (972) 446-9482

NVLAP Lab No. 102056
PAT ID# 19013
TDH License No. 30-0084

Client : RUST Environment & Infrastructure, Inc.

Lab Job No. : 6B-2726

Project : Cargill, Springfield, Illinois

Report Date : 12/10/96

Project # : 43776.100 Sample Date : Not Provided

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A

Page 1 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.

Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-1	Boiler Gasket, Boiler Room, Boiler #3	65% Chrysotile
S-2	Boiler Gasket, Boiler Room, Boiler #3	65% Chrysotile
S-3	Boiler Gasket, Boiler Room, Boiler #3	None Detected
S-4	Boiler Interior Hard Insulation, Boiler Room, Boiler #3	65% Chrysotile
S-5	Boiler Interior Hard Insulation, Boiler Room, Boiler #3	65% Chrysotile
S-6	Boiler Interior Hard Insulation, Boiler Room, Boiler #3	65% Chrysotile
S-7	Boiler Interior Insulation, Boiler Room, Boiler #3	None Detected
S-8	Boiler Interior Insulation, Boiler Room, Boiler #3	None Detected
S-9	Boiler Interior Insulation, Boiler Room, Boiler #3	None Detected
S-10	Pipe Insulation, Boiler Room, North Wall from Water Heater Platform	None Detected
S-11	Pipe Insulation, Boiler Room, Large Pipe above Incinerator	10% Amosite
S-12	Pipe Insulation, Boiler Room, North Side, Boiler #2	None Detected
S-13	2' x 4' Plain White Ceiling Tile, 1st Floor, Locker Room	None Detected
S-14	2' x 4' Plain White Ceiling Tile, 1st Floor, Locker Room	None Detected
S-15	2' x 4' Worm Track Ceiling Tile, 1st Floor, Locker Room	None Detected
S-16	2' x 4' Worm Track Ceiling Tile, 1st Floor, Locker Room	None Detected

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EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A

Page 2 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.
Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-17	Plaster, 1st Floor, Locker Room	None Detected
S-18	Plaster, 1st Floor, Locker Room	None Detected
S-19	Wallboard, Old Lunch Room	None Detected
S-20	Wallboard, Old Lunch Room	None Detected
S-21	2' x 2' Rough White Ceiling Tile, 2nd Floor, Locker Room	None Detected
S-22	2' x 2' Rough White Ceiling Tile, 2nd Floor, Locker Room	None Detected
S-23	Pipe Insulation, Basement Bulk Plant, near Stairwell	10% Amosite
S-24	Pipe Insulation, Warehouse #1, Riser in Metal Jacket	None Detected
S-25	12" x 12" Beige Floor Tile, Warehouse #1, Office	None Detected - Floor Tile No Mastic
S-26	12" x 12" Beige Floor Tile, Warehouse #1, Office	None Detected - Floor Tile No Mastic
S-27	12" x 12" Grey Floor Tile, Mill, Pipe Shop	3% Chrysotile - Floor Tile 2% Chrysotile - Black Mastic
S-28	12" x 12" Grey Floor Tile, Mill, Pipe Shop	3% Chrysotile - Floor Tile 2% Chrysotile - Black Mastic
S-29	Yellow Vinyl Sheet Tile, Mill, Miller's Office	None Detected
S-30	Yellow Vinyl Sheet Tile, Mill, Miller's Office	None Detected

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Lab Job No. : 6B-2726

Project : Cargill, Springfield, Illinois

Report Date : 12/10/96

Project # : 43776.100 Sample Date : Not Provided

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A

Page 3 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.

Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-31	2' x 4' White Ceiling Tile with Pin Holes, Mill, Miller's Office	None Detected
S-32	Plaster, Grocery Penthouse	None Detected
S-33	Pipe Insulation (no Metal Jacket), Grocery, 5th Floor	15% Amosite 5% Chrysotile
S-34	Pipe Insulation (under Metal Jacket), Grocery, 5th Floor	None Detected
S-35	2' x 4' White Ceiling Tile, Grocery, 5th Floor, Small Office	None Detected
S-36	Brown Floor Tile, Grocery, 5th Floor	3% Chrysotile - Floor Tile 3% Chrysotile - Black Mastic
S-37	Rust Floor Tile, Grocery, 5th Floor	None Detected - Floor Tile None Detected - Black Mastic
S-38	9" x 9" Beige Floor Tile, Grocery, 4th Floor, Test Lab	3% Chrysotile - Floor Tile
S-39	9" x 9" Beige Floor Tile, Grocery, 4th Floor, Test Lab	3% Chrysotile - Floor Tile 3% Chrysotile - Black Mastic
S-40	2' x 2' Hard White Ceiling Tile, Grocery, 4th Floor, Test Lab	35% Chrysotile
S-41	2' x 2' Hard White Ceiling Tile, Grocery, 4th Floor, Test Lab	35% Chrysotile
S-42	Pipe Insulation (Canvas Jacket), Grocery, 4th Floor	15% Amosite 5% Chrysotile
S-43	Pipe Insulation (Metal Jacket), Grocery, 4th Floor	15% Chrysotile

PLM REPORT

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1510 Randolph, Suite 602
Carrollton, Texas 75006 (972) 446-9482

NVLAP Lab No. 102056
PAT ID# 19013
TDH License No. 30-0084

Client : RUST Environment & Infrastructure, Inc. Lab Job No. : 6B-2726
Project : Cargill, Springfield, Illinois Report Date : 12/10/96
Project # : 43776.100 Sample Date : Not Provided
Identification : Asbestos, Bulk Sample Analysis
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A Page 4 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.
Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-44	9" x 9" White Floor Tile, Main Office	15% Chrysotile - Floor Tile 3% Chrysotile - Black Mastic
S-45	9" x 9" Green Floor Tile, Main Office	15% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
S-46	9" x 9" Green Floor Tile, Main Office	15% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
S-47	9" x 9" Green Floor Tile, Main Office	15% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
S-48	Vinyl Sheet Tile, Main Office	None Detected - Sheet Flooring None Detected - Fiber Backing
S-49	Vinyl Sheet Tile, Main Office	None Detected - Sheet Flooring None Detected - Fiber Backing
S-50	Vinyl Sheet Tile, Main Office	None Detected - Sheet Flooring None Detected - Fiber Backing
S-51	2' x 2' Newer White Ceiling Tile, Main Office	None Detected
S-52	2' x 2' Newer White Ceiling Tile, Main Office	None Detected
S-53	2' x 2' Newer White Ceiling Tile, Main Office	None Detected
S-54	2' x 2' Older White Ceiling Tile with Holes, Main Office	None Detected
S-55	2' x 2' Older White Ceiling Tile with Holes, Main Office	None Detected

PLM REPORT

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Client : RUST Environment & Infrastructure, Inc.

Lab Job No. : 6B-2726

Project : Cargill, Springfield, Illinois

Report Date : 12/10/96

Project # : 43776.100 Sample Date : Not Provided

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A

Page 5 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.

Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-56	Grey Vinyl Sheet Floor Tile, Main Office	None Detected - Sheet Flooring None Detected - Fiber Backing
S-57	Grey Vinyl Sheet Floor Tile, Main Office	None Detected - Sheet Flooring None Detected - Fiber Backing
S-58	Grey Vinyl Sheet Floor Tile, Main Office	None Detected - Sheet Flooring None Detected - Fiber Backing None Detected - Yellow Mastic
S-59	2' x 2' White Ceiling Tile with Pin Holes, Main Office	None Detected
S-60	2' x 2' White Ceiling Tile with Pin Holes, Main Office	None Detected
S-61	2' x 2' White Ceiling Tile with Pin Holes, Main Office	None Detected
S-62	12" x 12" Grey Floor Tile, Main Office	None Detected - Floor Tile None Detected - Black Mastic
S-63	12" x 12" Grey Floor Tile, Main Office	None Detected - Floor Tile None Detected - Black Mastic
S-64	12" x 12" Grey/Beige Floor Tile, Main Office	3% Chrysotile - Floor Tile None Detected - Black Mastic
S-65	12" x 12" Grey/Beige Floor Tile, Main Office	3% Chrysotile - Floor Tile None Detected - Black Mastic
S-66	12" x 12" Grey/Beige Floor Tile, Main Office	3% Chrysotile - Floor Tile None Detected - Black Mastic

PLM REPORT

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Lab Job No. : 6B-2726

Project : Cargill, Springfield, Illinois

Report Date : 12/10/96

Project # : 43776.100 Sample Date : Not Provided

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A

Page 6 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.
Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-67	Pipe Insulation (in Metal Jacket), Bakery Mix 16 Elevation, Room off Hallway	15% Amosite 5% Chrysotile
S-68	2' x 2' New Rough White Ceiling Tile, Main Office	None Detected
S-69	2' x 2' New Rough White Ceiling Tile, Main Office	None Detected
S-70	9" x 9" Green & White Floor Tile, Main Office	None Detected - Floor Tile No Mastic
S-71	9" x 9" Green & White Floor Tile, Main Office	None Detected - Floor Tile No Mastic
S-72	Tank Insulation, Bakery Mix, Zero Elevation, Bottom of Water Tank	None Detected
S-73	Tank Insulation, Bakery Mix, Zero Elevation, Bottom of Water Tank	None Detected
S-74	9" x 9" Red & White Floor Tile, Warehouse #8	15% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
S-75	9" x 9" Red & White Floor Tile, Warehouse #8	15% Chrysotile - Floor Tile None Detected - Black Mastic
S-76	9" x 9" Red Floor Tile, Warehouse #8	None Detected - Floor Tile 5% Chrysotile - Black Mastic
S-77	9" x 9" Red Floor Tile, Warehouse #8	None Detected - Floor Tile 5% Chrysotile - Black Mastic
S-78	Material inside Metal Walls, Warehouse #8	None Detected

PLM REPORT

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Client : RUST Environment & Infrastructure, Inc.

Lab Job No. : 6B-2726

Project : Cargill, Springfield, Illinois

Report Date : 12/10/96

Project # : 43776.100 Sample Date : Not Provided

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Page 7 of 8

On 11/22/96, one hundred (100) bulk material samples were submitted by Karen Hendrickson of RUST Environment & Infrastructure, Inc. for asbestos analysis by PLM/DS.

Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
S-79	Vinyl Sheet Floor Tile, Warehouse #4	None Detected - Sheet Flooring None Detected - Fiber Backing
S-80	Vinyl Sheet Floor Tile, Warehouse #4	None Detected
S-81	2' x 2' Ceiling Tile, Warehouse #4, Lunch Room	None Detected
S-82	2' x 2' Ceiling Tile, Warehouse #4, Lunch Room	None Detected
S-83	Pipe Insulation, Riser Pipe, C Mill, 1st Floor	None Detected
S-84	Pipe Insulation, East Wall Riser, C Mill, 4th Floor	None Detected
S-85	Board (Transite), Warehouse #9	35% Chrysotile
S-86	Dryer Insulation, 8180, 8th Floor	20% Amosite - White Insulation 2% Chrysotile - White Insulation 80% Chrysotile - Grey Insulation
S-87	Dryer Insulation, 8180, 8th Floor	20% Amosite 5% Chrysotile
S-88	Dryer Gasket, 8180, 8th Floor	90% Chrysotile
S-89	Dryer Gasket, 8180, 8th Floor	90% Chrysotile
S-90	Fitting Insulation, C Mill, Basement, Northwest Corner	2% Chrysotile - Tan Paper 50% Chrysotile - Grey Paper
S-91	Fitting Insulation, C Mill, Basement, Northwest Corner	2% Chrysotile <1% Amosite

PLM REPORT

Steve Moody Micro Services, Inc.
1510 Randolph, Suite 602
Carrollton, Texas 75006 (972) 446-9482

NVLAP Lab No. 102056
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Client : RUST Environment & Infrastructure, Inc.

Lab Job No. : 6B-2726

Project : Cargill, Springfield, Illinois

Report Date : 12/10/96

Project # : 43776.100 Sample Date : Not Provided

Identification : Asbestos, Bulk Sample Analysis

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EPA Method 40 CFR, Ch. 1, Pt. 763, Subpt. F, App. A

Page 8 of 8

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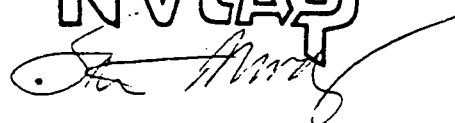
Sample Number	Client Sample Description / Location	Asbestos Content
S-92	Fitting Insulation, C Mill, Basement, Northwest Corner	2% Chrysotile <1% Amosite
S-93	Fitting Insulation, C Mill, Basement, Northwest Corner	2% Chrysotile <1% Amosite
S-94	Fitting Insulation, C Mill, Basement, Northwest Corner	2% Chrysotile - Paper
S-96	Wallboard, C Mill, Basement	None Detected
S-97	Black Pipe Insulation, Mill Basement	None Detected
S-98	T-20 Insulation, Mill, 3rd Floor	None Detected
S-99	Dryer Insulation, Elevator	80% Chrysotile
S-100	Dryer Insulation, Elevator	15% Amosite 10% Chrysotile
S-101	Pipe Insulation, Warehouse #8, Basement Compressor Room	20% Amosite 15% Chrysotile

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated when relevant. These asbestos contents should be considered when establishing policy regarding these bulk materials. Quantification, unless otherwise noted, is performed by calibrated visual estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government.

Analyst : Dwayne Morin, Jr., Richard Whitaker

Lab Director : Steve Moody

Approved Signatory :

NVLAP


Thank you for choosing Steve Moody Micro Services

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

65% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-1

Client Sample Description : Boiler Gasket, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Gasket

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Fibrous/hard	YES	65	65	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	65	15	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 65% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-1

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

65% Chrysotile

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-2

Client Sample Description : Boiler Gasket, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Gasket

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Fibrous/hard	YES	65	65	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	65	15	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 65% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-2

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-3

Client Sample Description : Boiler Gasket, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Gasket

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Fibrous/hard	YES	65	65	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glass Wool Fibers	85		Rods				0		
Resin Binders	15		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-3

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

65% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-5

Client Sample Description : Boiler Interior Hard Insulation, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	60	60	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	65	15	silky / wavy	None	1.556	1.548	low	0	+
Mineral Wool Fibers	5		Rods				0		
Cellulose Fibers	<1		ribbons				high		
Binders / Fillers	30		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 65% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-5

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

65% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-6

Client Sample Description : Boiler Interior Hard Insulation, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	60	60	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	65	15	silky / wavy	None	1.556	1.548	low	0	+
Mineral Wool Fibers	5		Rods				0		
Cellulose Fibers	<1		ribbons				high		
Binders / Fillers	30		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 65% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-6

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-7

Client Sample Description : Boiler Interior Insulation, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	YES	100	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	85		Rods				0		
Wollastonite Fibers	10		Laths						+/-
Resin Binders	5		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-7

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-8

Client Sample Description : Boiler Interior Insulation, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	YES	100	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	85		Rods				0		
Wollastonite Fibers	10		Laths						+/-
Resin Binders	5		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-8

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-9

Client Sample Description : Boiler Interior Insulation, Boiler Room, Boiler #3

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	YES	100	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	85		Rods				0		
Wollastonite Fibers	10		Laths						+/-
Resin Binders	5		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-9

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-10

Client Sample Description : Pipe Insulation, Boiler Room, North Wall from
Water Heater Platform

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	5	ND	100

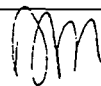
PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Synthetic Fibers	5		Monofilaments						
Calcite / Binders	95		Non-fibrous				high		

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.
Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-10

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-10

Client Sample Description : Pipe Insulation, Boiler Room, North Wall from
Water Heater Platform

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	5	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Synthetic Fibers	5		Monofilaments						
Calcite / Binders	95		Non-fibrous				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-10

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

10% Amosite

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-11

Client Sample Description : Pipe Insulation, Boiler Room, Large Pipe above Incinerator

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	15	15	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	10	3	straight	None	1.697	1.681	mod	0	+
Binders / Fillers	90		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 10% Amosite

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-11

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-12

Client Sample Description : Pipe Insulation, Boiler Room, North Side, Boiler #2

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	5	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Synthetic Fibers	5		Monofilaments						
Calcite / Binders	95		Non-fibrous				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-12

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-13

Client Sample Description : 2' x 4' Plain White Ceiling Tile, 1st Floor, Locker Room

Page 1 of 1

Layer 1 Cover

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Rubbery	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Vinyl Binders	100		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	100	ND	15

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 3 Drywall Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	2	ND	85

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	2		ribbons				high		
Glass Wool Fibers	2		Rods				0		
Vermiculite	3		Platelets / Books	Yellow / Brown					
Gypsum Binders	93		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-13

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-14

Client Sample Description : 2' x 4' Plain White Ceiling Tile, 1st Floor, Locker Room

Page 1 of 1

Layer 1 Cover

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Rubbery	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Vinyl Binders	100		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	100	ND	15

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 3 Drywall Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	2	ND	85

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	2		ribbons				high		
Glass Wool Fibers	2		Rods				0		
Vermiculite	3		Platelets / Books	Yellow / Brown					
Gypsum Binders	93		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-14

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-15

Client Sample Description : 2' x 4' Worm Track Ceiling Tile, 1st Floor, Locker Room

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	90	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	80		Rods				0		
Perlite	10		Glass Foam				0		
Binders / Fillers	10		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-15

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-16

Client Sample Description : 2' x 4' Worm Track Ceiling Tile, 1st Floor, Locker Room

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	90	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	80		Rods				0		
Perlite	10		Glass Foam				0		
Binders / Fillers	10		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-16

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-17

Client Sample Description : Plaster, 1st Floor, Locker Room

Page 1 of 1

Layer 1 Plaster

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glass Wool Fibers	5		Rods				0		
Glue Binders	95		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-17

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-18

Client Sample Description : Plaster, 1st Floor, Locker Room

Page 1 of 1

Layer 1 Plaster

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Binders / Fillers	100		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-18

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-19

Client Sample Description : Wallboard, Old Lunch Room

Page 1 of 1

Layer 1 Drywall Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	3	ND	100

PLM Examination

Components	% +/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	<1	ribbons				high		
Gypsum Binders	100	Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-19

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-20

Client Sample Description : Wallboard, Old Lunch Room

Page 1 of 1

Layer 1 Drywall Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	3	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	<1		ribbons				high		
Gypsum Binders	100		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-20

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-21

Client Sample Description : 2' x 2' Rough White Ceiling Tile, 2nd Floor, Locker Room

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	45		Rods				0		
Cellulose Fibers	35		ribbons				high		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-21

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-22

Client Sample Description : 2' x 2' Rough White Ceiling Tile, 2nd Floor, Locker Room

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	45		Rods				0		
Cellulose Fibers	35		ribbons				high		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-22

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
10% Amosite

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-23

Client Sample Description : Pipe Insulation, Basement Bulk Plant, near Stairwell

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	15	15	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	10	3	straight	None	1.697	1.681	mod	0	+
Binders / Fillers	90		Non-fibrous						

Prep/treatment : mechanical seperation

Asbestos Content : 10% Amosite

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-23

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-24

Client Sample Description : Pipe Insulation, Warehouse #1, Riser in Metal Jacket

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	5	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Synthetic Fibers	5		Monofilaments						
Mica	2		Platelets / Books						
Calcite / Binders	93		Non-fibrous				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.
Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-24

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected - Floor Tile
No Mastic

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-25

Client Sample Description : 12" x 12" Beige Floor Tile, Warehouse #1, Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment: heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-25

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

None Detected - Floor Tile
No Mastic

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-26

Client Sample Description : 12" x 12" Beige Floor Tile, Warehouse #1, Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-26

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-27

Client Sample Description : 12" x 12" Grey Floor Tile, Mill, Pipe Shop

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	98		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 2% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-27

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-28

Client Sample Description : 12" x 12" Grey Floor Tile, Mill, Pipe Shop

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	98		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 2% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-28

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-29

Client Sample Description : Yellow Vinyl Sheet Tile, Mill, Miller's Office

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-29

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-30

Client Sample Description : Yellow Vinyl Sheet Tile, Mill, Miller's Office

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-30

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-31

Client Sample Description : 2' x 4' White Ceiling Tile with Pin Holes, Mill, Miller's Office

Page 1 of 1

Layer 1 Plaster

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	YES	ND	ND	15

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Binders / Fillers	100		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 2 DW Paper Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	100	ND	15

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 3 Plaster

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	YES	ND	ND	40

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	65		Non-fibrous						
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 4 Drywall Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	3	ND	30

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	10		ribbons				high		
Gypsum Binders	90		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-31

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-32

Client Sample Description : Plaster, Grocery Penthouse

Page 1 of 1

Layer 1 Plaster

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard / Blocky	YES	ND	ND	40

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	65		Non-fibrous						
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 2 Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	100	ND	15

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 3 Drywall Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	3	ND	45

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	5		ribbons				high		
Gypsum Binders	95		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-32

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

15% Amosite

5% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-33

Client Sample Description : Pipe Insulation (no Metal Jacket), Grocery, 5th Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	20	20	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	15	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	5	2	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	80		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 15% Amosite
5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-33

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-34

Client Sample Description : Pipe Insulation (under Metal Jacket), Grocery, 5th Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	20	ND	50

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	25		Rods				0		
Cellulose Fibers	<1		ribbons				high		
Binders / Fillers	75		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Layer 2 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	YES	5	ND	50

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Binders	100		Non-fibrous				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-34

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-35

Client Sample Description : 2' x 4' White Ceiling Tile, Grocery, 5th Floor, Small Office

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	45		ribbons				high		
Mineral Wool Fibers	35		Rods				0		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-35

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-36

Client Sample Description : Brown Floor Tile, Grocery, 5th Floor

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	97		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/22/96

Lab Job# : 6B-2726 Sample # : S-36

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-37

Client Sample Description : Rust Floor Tile, Grocery, 5th Floor

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	98

PLM Examination

Components	% +/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100	Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	2

PLM Examination

Components	% +/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Tar Binders	100	Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr. *DM*

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-37

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-38

Client Sample Description : 9" x 9" Beige Floor Tile, Grocery, 4th Floor, Test Lab

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	97		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-38

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-39

Client Sample Description : 9" x 9" Beige Floor Tile, Grocery, 4th Floor, Test Lab

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard	YES	ND	ND	98

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	2

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	97		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-39

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

35% Chrysotile

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-40

Client Sample Description : 2' x 2' Hard White Ceiling Tile, Grocery, 4th Floor, Test Lab

Page 1 of 1

Layer 1 Cement Asbestos Board

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard / Fibrous	YES	35	35	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	35	10	silky / wavy	None	1.556	1.548	low	0	+
Cement Binders	65		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 35% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 ; Sample # : S-40

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

35% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-41

Client Sample Description : 2' x 2' Hard White Ceiling Tile, Grocery, 4th Floor, Test Lab

Page 1 of 1

Layer 1 Cement Asbestos Board

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard / Fibrous	YES	35	35	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	35	10	silky / wavy	None	1.556	1.548	low	0	+
Cement Binders	65		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 35% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-41

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

15% Amosite

5% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-42

Client Sample Description : Pipe Insulation (Canvas Jacket), Grocery, 4th Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	20	20	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	15	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	5	2	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	80		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 15% Amosite
5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr. 

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-42

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

15% Chrysotile

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-43

Client Sample Description : Pipe Insulation (Metal Jacket), Grocery, 4th Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	20	20	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	85		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 15% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-43

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-44

Client Sample Description : 9" x 9" White Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	85		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 15% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	97		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-44

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-45

Client Sample Description : 9" x 9" Green Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	85		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 15% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	5	2	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-45

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-46

Client Sample Description : 9" x 9" Green Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	85		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 15% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	5	2	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-46

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-47

Client Sample Description : 9" x 9" Green Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	85		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 15% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	5	2	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.
Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-47

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-48

Client Sample Description : Vinyl Sheet Tile, Main Office

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard	YES	ND	ND	55

PLM Examination

Components	% +/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100	Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	45

PLM Examination

Components	% +/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55	ribbons				high		
Synthetic Fibers	5	Monofilaments						
Glass Wool Fibers	5	Rods				0		
Binders / Fillers	35	Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-48

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-49

Client Sample Description : Vinyl Sheet Tile, Main Office

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard	YES	ND	ND	55

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	45

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-49

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-50

Client Sample Description : Vinyl Sheet Tile, Main Office

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Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard	YES	ND	ND	55

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	45

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-50

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-51

Client Sample Description : 2' x 2' Newer White Ceiling Tile, Main Office

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Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	45		Rods				0		
Cellulose Fibers	35		ribbons				high		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-51

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-52

Client Sample Description : 2' x 2' Newer White Ceiling Tile, Main Office

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Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	45		Rods				0		
Cellulose Fibers	35		ribbons				high		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-52

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-53

Client Sample Description : 2' x 2' Newer White Ceiling Tile, Main Office

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	45		Rods				0		
Cellulose Fibers	35		ribbons				high		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-53

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-54

Client Sample Description : 2' x 2' Older White Ceiling Tile with Holes, Main Office

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	45		ribbons				high		
Mineral Wool Fibers	35		Rods				0		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-54

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-55

Client Sample Description : 2' x 2' Older White Ceiling Tile with Holes, Main Office

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	45		Rods				0		
Cellulose Fibers	35		ribbons				high		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-55

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-56

Client Sample Description : Grey Vinyl Sheet Floor Tile, Main Office

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	55

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	45

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-56

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-57

Client Sample Description : Grey Vinyl Sheet Floor Tile, Main Office

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	55

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	45

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-57

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-58

Client Sample Description : Grey Vinyl Sheet Floor Tile, Main Office

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Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	55

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	45

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Layer 3 Yellow Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow	Rubbery	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-58

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-59

Client Sample Description : 2' x 2' White Ceiling Tile with Pin Holes, Main Office

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Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	45		ribbons				high		
Mineral Wool Fibers	35		Rods				0		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-59

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-60

Client Sample Description : 2' x 2' White Ceiling Tile with Pin Holes, Main Office

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	45		ribbons				high		
Mineral Wool Fibers	35		Rods				0		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-60

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-61

Client Sample Description : 2' x 2' White Ceiling Tile with Pin Holes, Main Office

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	80	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	45		ribbons				high		
Mineral Wool Fibers	35		Rods				0		
Perlite	20		Glass Foam				0		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-61

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-62

Client Sample Description : 12" x 12" Grey Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Tar Binders	100		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-62

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-63

Client Sample Description : 12" x 12" Grey Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Tar Binders	100		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-63

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-64

Client Sample Description : 12" x 12" Grey/Beige Floor Tile, Main Office

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Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.553	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Polyethylene Fibers	5		melts				high		
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-64

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-65

Client Sample Description : 12" x 12" Grey/Beige Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Polyethylene Fibers	5		melts				high		
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample : S-65

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-66

Client Sample Description : 12" x 12" Grey/Beige Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	3	1	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	97		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 3% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Polyethylene Fibers	5		melts				high		
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-66

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

15% Amosite

5% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-67

Client Sample Description : Pipe Insulation (in Metal Jacket), Bakery Mix 16 Elevation,
Room off Hallway

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	20	20	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	15	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	5	2	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	80		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 15% Amosite
5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-67

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-69

Client Sample Description : 2' x 2' New Rough White Ceiling Tile, Main Office

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Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	90	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	90		Rods				0		
Binders / Fillers	10		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-69

Client: RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project: Cargill, Springfield, Illinois

None Detected - Floor Tile
No Mastic

Project #: 43776.100

Lab Job#: 6B-2726

Sample #: S-70

Client Sample Description: 9" x 9" Green & White Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment: heat / melt

Asbestos Content: None Detected

Comments:

Analyst: Dwayne Morin, Jr.

Date: 11/25/96

Lab Job#: 6B-2726 Sample #: S-70

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

None Detected - Floor Tile

No Mastic

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-71

Client Sample Description : 9" x 9" Green & White Floor Tile, Main Office

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-71

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-73

Client Sample Description : Tank Insulation, Bakery Mix, Zero Elevation,
Bottom of Water Tank

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	20	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	25		Rods				0		
Cellulose Fibers	<1		ribbons				high		
Binders / Fillers	75		Non-fibrous						

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-73

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-74

Client Sample Description : 9" x 9" Red & White Floor Tile, Warehouse #8

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Red	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	85		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 15% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	5	2	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-74

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-75

Client Sample Description : 9" x 9" Red & White Floor Tile, Warehouse #8

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Red	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	15	5	silky / wavy	None	1.563	1.555	low	0	+
Calcite / Vinyl Binders	85		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : 15% Chrysotile

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Tar Binders	100		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-75

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-76

Client Sample Description : 9" x 9" Red Floor Tile, Warehouse #8

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Red	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	5	2	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-76

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-77

Client Sample Description : 9" x 9" Red Floor Tile, Warehouse #8

Page 1 of 1

Layer 1 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Red	Hard	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Asphaltic	YES	ND	ND	<1

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	5	2	silky / wavy	None	1.560	1.552	low	0	+
Tar Binders	95		Non-fibrous						

Prep/treatment : heat / melt

Asbestos Content : 5% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-77

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-79

Client Sample Description : Vinyl Sheet Floor Tile, Warehouse #4

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	65

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	35

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-79

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-80

Client Sample Description : Vinyl Sheet Floor Tile, Warehouse #4

Page 1 of 1

Layer 1 Sheet Flooring

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard	YES	ND	ND	80

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	100		Non-fibrous				high		

Prep/treatment : heat / melt

Asbestos Content : None Detected

Layer 2 Fiber Backing

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	60	ND	20

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Binders / Fillers	35		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-80

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-81

Client Sample Description : 2' x 2' Ceiling Tile, Warehouse #4, Lunch Room

Page 1 of 1

Layer 1 Ceiling Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	90	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Mineral Wool Fibers	90		Rods				0		
Binders / Fillers	10		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-81

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-83

Client Sample Description : Pipe Insulation, Riser Pipe, C Mill, 1st Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous/Powdery	YES	15	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	25		ribbons				high		
Calcite / Binders	75		Non-fibrous				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-83

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

None Detected

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-84

Client Sample Description : Pipe Insulation, East Wall Riser, C Mill, 4th Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous/Powdery	YES	25	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Synthetic Fibers	25		Monofilaments						
Glass Wool Fibers	5		Rods				0		
Calcite / Binders	70		Non-fibrous				high		

Prep/treatment : mechanical seperation

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-84

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent
35% Chrysotile

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-85

Client Sample Description : Board (Transite), Warehouse #9

Page 1 of 1

Layer 1 Cement Asbestos Board

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Hard / Fibrous	YES	35	35	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	35	10	silky / wavy	None	1.556	1.548	low	0	+
Cement Binders	65		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 35% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-85

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-86

Client Sample Description : Dryer Insulation, 8180, 8th Floor

Page 1 of 1

Layer 1 White Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	15	15	75

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	20	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	2	1	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	78		Non-fibrous						

Prep/treatment : mechanical seperation

Asbestos Content : 20% Amosite
2% Chrysotile

Layer 2 Grey Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Fibrous	YES	80	80	25

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	80	15	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	20		Non-fibrous						

Prep/treatment : mechanical seperation

Asbestos Content : 80% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-86

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

20% Amosite

5% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-87

Client Sample Description : Dryer Insulation, 8180, 8th Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	15	15	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	20	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	5	2	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	75		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 20% Amosite
5% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-87

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

90% Chrysotile

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-88

Client Sample Description : Dryer Gasket, 8180, 8th Floor

Page 1 of 1

Layer 1 Gasket

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	90	65	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	90	15	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	10		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 90% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-88

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

90% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-89

Client Sample Description : Dryer Gasket, 8180, 8th Floor

Page 1 of 1

Layer 1 Gasket

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	90	65	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	90	15	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	10		Non-fibrous						

Prep/treatment : mechanical seperation

Asbestos Content : 90% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-89

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-90

Client Sample Description : Fitting Insulation, C Mill, Basement, Northwest Corner

Page 1 of 1

Layer 1 Tan Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	100	2	90

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.556	1.548	low	0	+
Cellulose Fibers	98		ribbons				high		

Prep/treatment : mechanical separation

Asbestos Content : 2% Chrysotile

Layer 2 Grey Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	100	55	10

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	50	15	silky / wavy	None	1.556	1.548	low	0	+
Cellulose Fibers	45		ribbons				high		
Binders / Fillers	5		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 50% Chrysotile

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/18/96

Lab Job# : 6B-2726 Sample # : S-90

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

2% Chrysotile

<1% Amosite

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-91

Client Sample Description : Fitting Insulation, C Mill, Basement, Northwest Corner

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	35	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.556	1.548	low	0	+
Amosite	<1		straight	None	1.697	1.681	mod	0	+
Mineral Wool Fibers	35		Rods				0		
Cellulose Fibers	2		ribbons				high		
Binders / Fillers	61		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 2% Chrysotile
<1% Amosite

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/18/96

Lab Job# : 6B-2726 Sample # : S-91

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

2% Chrysotile

<1% Amosite

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-92

Client Sample Description : Fitting Insulation, C Mill, Basement, Northwest Corner

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	35	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.556	1.548	low	0	+
Amosite	<1		straight	None	1.697	1.681	mod	0	+
Mineral Wool Fibers	35		Rods				0		
Cellulose Fibers	2		ribbons				high		
Binders / Fillers	61		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 2% Chrysotile
<1% Amosite

Comments :

Analyst : Dwayne Morin, Jr.
Date : 11/18/96

Lab Job# : 6B-2726 Sample # : S-92

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

2% Chrysotile

<1% Amosite

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-93

Client Sample Description : Fitting Insulation, C Mill, Basement, Northwest Corner

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Light Grey	Fibrous	YES	35	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.556	1.548	low	0	+
Amosite	<1		straight	None	1.697	1.681	mod	0	+
Mineral Wool Fibers	35		Rods				0		
Cellulose Fibers	2		ribbons				high		
Binders / Fillers	61		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 2% Chrysotile
<1% Amosite

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/18/96

Lab Job# : 6B-2726 Sample # : S-93

Client : RUST Environment & Infrastructure, Inc.

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-94

Client Sample Description : Fitting Insulation, C Mill, Basement, Northwest Corner

Page 1 of 1

Layer 1 Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	YES	100	2	65

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	2	1	silky / wavy	None	1.556	1.548	low	0	+
Cellulose Fibers	98		ribbons				high		

Prep/treatment : mechanical separation

Asbestos Content : 2% Chrysotile

Layer 2 Felt / Tar Paper

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	YES	70	ND	35

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	70		ribbons				high		
Tar Binders	30		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Dwayne Morin, Jr.

Date : 11/18/96

Lab Job# : 6B-2726 Sample # : S-94

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

No Sample

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-95

Client Sample Description : Pipe Insulation, C Mill, Basement, Northwest Corner

Page 1 of 1

Layer 1 No Sample

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
		NO			

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
No Sample									

Prep/treatment :

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-95

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-96

Client Sample Description : Wallboard, C Mill, Basement

Page 1 of 1

Layer 1 Fiber Board

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	YES	100	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	95		ribbons				high		
Binders / Fillers	5		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-96

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-97

Client Sample Description : Black Pipe Insulation, Mill Basement

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous	% Fibrous	% Asbestos	% of Sample
Brown	Rubbery	NO	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cork	100		Closed Cells				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-97

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

None Detected

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-98

Client Sample Description : T-20 Insulation, Mill, 3rd Floor

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Powder	YES	ND	ND	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	10		ribbons				high		
Calcite / Binders	90		Non-fibrous				high		

Prep/treatment : mechanical separation

Asbestos Content : None Detected

Comments :

Very Small Sample

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-98

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

80% Chrysotile

Project : Cargill, Springfield, Illinois

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-99

Client Sample Description : Dryer Insulation, Elevator

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	Fibrous	YES	80	80	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	80	15	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	20		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 80% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-99

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

15% Amosite

10% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-100

Client Sample Description : Dryer Insulation, Elevator

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Fibrous	YES	20	20	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	15	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	10	3	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	75		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 15% Amosite
10% Chrysotile

Comments :

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-100

Client : RUST Environment & Infrastructure, Inc.

Overall Asbestos Percent

Project : Cargill, Springfield, Illinois

20% Amosite

15% Chrysotile

Project # : 43776.100

Lab Job# : 6B-2726

Sample # : S-101

Client Sample Description : Pipe Insulation, Warehouse #8, Basement Compressor Room

Page 1 of 1

Layer 1 Thermal Insulation

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
tan	Fibrous	YES	20	20	100

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Amosite	20	5	straight	None	1.697	1.681	mod	0	+
Chrysotile	15	5	silky / wavy	None	1.556	1.548	low	0	+
Binders / Fillers	65		Non-fibrous						

Prep/treatment : mechanical separation

Asbestos Content : 20% Amosite
15% Chrysotile

Comments :

Very Small Sample

Analyst : Richard Whitaker

Date : 11/25/96

Lab Job# : 6B-2726 Sample # : S-101

SAMPLE SUBMITTAL FORM

Laboratory: Steve Moody Micro Services, Inc.
 1510 Randolph, Suite 602
 Carrollton, TX 75006
 Phone: (972) 446-9482 / Facsimile: (972) 446-9870

Client Name: Karen Hendrickson
RUST Environment & Infrastructure Inc.
11705 Highway Dr Suite 100
Cincinnati, OH 45241
 Phone: (513) 483-5345 / Facsimile: (513) 733-8213

Project No.: 43776.100

Sample Date: _____

Submission Date: _____

Project Name: Cargill - Springfield, IL

Fax Results by: _____

Instructions: Determine percentage asbestos content by polarized light microscopy (PLM) in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," Appendix E to Subpart E of 40 CFR Part 763.

SAMPLING DATA

Sample No.	Material Description	Sample Location
S-1	Boiler Gasket	Boiler Room - Boiler #3
S-2	"	"
S-3	"	"
S-4	Boiler Interior Hard Insulation	"
S-5	"	"
S-6	"	"
S-7	Boiler Interior Insulation	"
S-8	"	"
S-9	"	"
S-10	Pipe Insulation	" N. Wall for water heater Platform
S-11	"	" Large Pipe above Insulation
S-12	"	" N. side Boiler No. 2
S-13	2'x4' Ceiling Tile Plain white	1st Floor Locker Room
S-14	"	"
S-15	2'x4' Ceiling Tile <u>Worn</u>	"

Relinquished by: [Signature] 11/21/96

Received by: Guy H. Gray 11/22/96

Comments/Requests:

GB-2726 9am

SAMPLE SUBMITTAL FORM

Laboratory: Steve Moody Micro Services, Inc.
 1510 Randolph, Suite 602
 Carrollton, TX 75006
 Phone: (972) 446-9482 / Facsimile: (972) 446-9870

Client Name: Karen Hendrickson
RUST Environment & Infrastructure Inc.
11705 Highway Dr Suite 100
Cincinnati, OH 45241
 Phone: (513) 483-5345 / Facsimile: (513) 733-8213

Project No.: 43776.100

Sample Date: _____

Submission Date: _____

Project Name: Cargill - Springfield, IL

Fax Results by: _____

Instructions: Determine percentage asbestos content by polarized light microscopy (PLM) in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," Appendix E to Subpart E of 40 CFR Part 763.

SAMPLING DATA

Sample No.	Material Description	Sample Location
S-16	2'x4' Ceiling Tile ^{Warm} Track	1 st Floor Locker Room
S-17	Plaster	"
S-18	"	"
S-19	Wall board	Old lunch Room
S-20	"	Old lunch Room
S-21	2'x2' Rough white Ceiling Tile	2 nd Floor ~~Locker~~ Locker Room
S-22	"	"
S-23	Pipe Insulation	Basement Bulk Plant - ^{near} stairwell
S-24	"	Warehouse #1 - Riser in metal jacket
S-25	12"x12" Beige Floor Tile	Warehouse #1 - office
S-26	"	"
S-27	12"x12" Gray Floor Tile	~~Mill~~ Mill - Pipe Shop
S-28	"	"
S-29	Yellow vinyl sheet tile	Mill - Miller's office
S-30	"	"

Relinquished by: Jim S. Hendrickson 11-21-96 Received by: Guy H. Day 11/22/96

Comments/Requests:

613-2726

9am

SAMPLE SUBMITTAL FORM

Laboratory: Steve Moody Micro Services, Inc.
 1510 Randolph, Suite 602
 Carrollton, TX 75006
 Phone: (972) 446-9482 / Facsimile: (972) 446-9870

Client Name: Karen Hendrickson
RUST Environment & Infrastructure Inc.
11705 Highway Dr Suite 100
Cincinnati, OH 45241
 Phone: (513) 483-5345 / Facsimile: (513) 733-8213

Project No.: 43776.100

Sample Date: _____

Submission Date: _____

Project Name: Cargill - Springfield, IL

Fax Results by: _____

Instructions: Determine percentage asbestos content by polarized light microscopy (PLM) in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," Appendix E to Subpart E of 40 CFR Part 763.

SAMPLING DATA

Sample No.	Material Description	Sample Location
S-31	2' x 4' white Pin Hole Ceiling Tile	Mill - Miller's office
S-32	Plaster	Grocery Penthouse
S-33	Pipe Insulation - no metal jacket	Grocery - 5th Floor
S-34	Pipe Insulation - under metal jacket	"
S-35	2' x 4' white Ceiling Tile	" small office
S-36	Brown Floor Tile	"
S-37	Rust Floor Tile	"
S-38	Beige 9"x9" Floor Tile	Grocery - 4th Floor Test Lab
S-39	"	"
S-40	2' x 2' Hard white Ceiling Tile	"
S-41	"	"
S-42	Pipe Insulation - canvas jacket	Grocery - 4th Floor
S-43	Pipe Insulation - metal jacket	Grocery - 4th Floor
S-44	White 9"x9" Floor Tile	Main office
S-45	Green, 9"x9" Floor Tile	"

Relinquished by: [Signature] 11-21-96 Received by: Guy H. Sley 11/22/96

Comments/Requests:

6B-2726

40m

SAMPLE SUBMITTAL FORM

Laboratory: Steve Moody Micro Services, Inc.
1510 Randolph, Suite 602
Carrollton, TX 75006
Phone: (972) 446-9482 / Facsimile: (972) 446-9870

Client Name: Karen Hendrickson
RUST Environment & Infrastructure Inc.
11705 Highway Dr Suite 100
Cincinnati, OH 45241
Phone: (513) 483-5345 / Facsimile: (513) 733-8213

Project No.: 43776.100

Sample Date: _____

Submission Date: _____

Project Name: Cargill - Springfield, IL

Fax Results by: _____

Instructions: Determine percentage asbestos content by polarized light microscopy (PLM) in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," Appendix E to Subpart E of 40 CFR Part 763.

SAMPLING DATA

Sample No.	Material Description	Sample Location
S-66	Gray Beige 12"x12" Floor Tile	Main Office
S-67	Pipe Insulation in metal Jacket	Bakery Mix 16 Elevation Room off Hallway
S-68	New Rough 2'x2' White Ceiling Tile	Main Office
S-69	"	"
S-70	9"x9" Green & White Floor Tile	"
S-71	"	"
S-72	Tank Insulation	Bakery Mix - Zero Elevation Bottom Hot Tank
S-73	"	" Top Hot Tank
S-74	9"x9" Red & White Floor Tile	Warehouse #E
S-75	"	"
S-76	9"x9" Red Floor Tile	"
S-77	"	"
S-78	Material inside metal walls	"
S-79	Vinyl Sheet Floor Tile	Warehouse 4
S-80	"	"

Relinquished by: L.S. [Signature] 11-21-96 Received by: G.H. [Signature] 11/22/96 Q.H.

Comments/Requests:

SAMPLE SUBMITTAL FORM

Laboratory: Steve Moody Micro Services, Inc.
 1510 Randolph, Suite 602
 Carrollton, TX 75006
 Phone: (972) 446-9482 / Facsimile: (972) 446-9870

Client Name: Karen Hendrickson
RUST Environment & Infrastructure Inc.
11705 Highway Dr Suite 100
Cincinnati OH 45241
 Phone: (513) 483-5345 / Facsimile: (513) 733-8213

Project No.: 43776.100

Sample Date: _____

Submission Date: _____

Project Name: Cargill - Springfield, IL

Fax Results by: _____

Instructions: Determine percentage asbestos content by polarized light microscopy (PLM) in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," Appendix E to Subpart E of 40 CFR Part 763.

SAMPLING DATA

Sample No.	Material Description	Sample Location
S-81	Ceiling Tile 2'x2'	Warehouse 4 Lunch Room
S-82	"	"
S-83	Pipe Insulation - River Pipe	C Mill 1 st Floor
S-84	Pipe Insulation - E Well River	C Mill 4 th Floor
S-85	Board (Transite)	Warehouse 9
S-86	Dryer Insulation	B180 8 th Floor
S-87	"	"
S-88	Dryer Gasket	"
S-89	"	"
S-96	Well board	C Mill Basement
S-97	Black Pipe Insulation	Mill Basement
S-98	T-20 Insulation	B Mill - 3 rd Floor
S-99	Dryer Insulation	Elevator
S-100	"	"
S-101	Pipe Insulation	Warehouse 8 - Basement Compressor Room

Relinquished by: Shirley H. H. 11-21-96 Received by: Guy H. H. 11/22/96 9am

Comments/Requests:

6B-2726

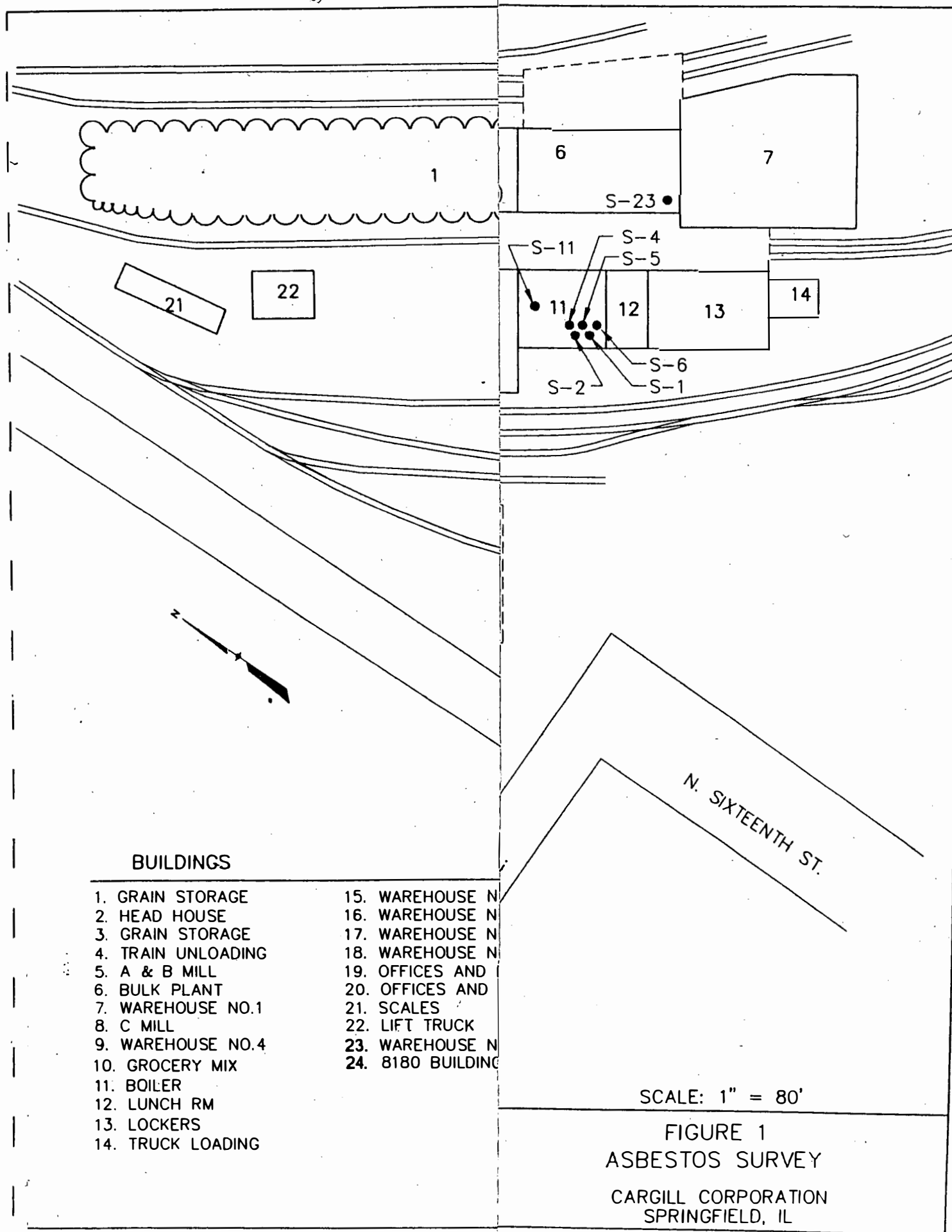
ATTACHMENT 4

Facility Drawings

DATE = 10/17/96

USER PHO

P.N. 43776.100





Notice of Alleged Safety or Health Hazards

Thu May 8, 2008 1:33pm

Complaint Number		206491524	
Establishment Name	Ley Metal Recycling Inc		
Site Address	1525 E Phillips, Springfield, IL 62702		
	Site Phone	Site FAX	
Mailing Address	3000 N Peoria Rd, Springfield, IL 62702		
	Mail Phone	Mail FAX	
Management Official	Jimmy Ley	Telephone	
Type of Business	demo of build for scrap	Ownership	
Primary SIC	1795	Primary NAICS	238910
HAZARD DESCRIPTION/LOCATION. Describe briefly the hazard(s) which you believe exist. Include the approximate number of employees exposed to or threatened by each hazard. Specify the particular building or worksite where the alleged violation exists.			

DESCRIPTION:

1. Employees are exposed to pipe insulating material possibly containing asbestos and Class I procedures are not being followed.
2. Employees are exposed to air contaminants, over head hazards, eye hazards and the employer does not require and/or provide appropriate PPE.
3. Employees are exposed to a fall hazard while working in the roof rafters removing piping and the employer has not provided appropriate fall protection.

LOCATION:

May 15, 2008

Mr. Justin Sternes, Compliance Safety and Health Officer
Occupational Safety and Health Administration
2918 W. Willow Knolls Drive
Peoria, Illinois 61614-8201

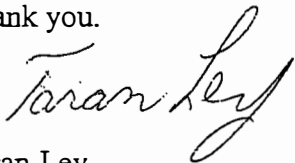
Mr. Sternes:

Per your request of May 14, 2008 I have enclosed our Phase I report for the former Cargill/Pillsbury site in Springfield, Illinois.

Attachment 2 of our report was the old Phase I done by Cargill before they took over Pillsbury. It is considered Confidential and Proprietary under the terms of our purchase agreement; therefore, I do not have the authority to release it without written permission from Cargill. I can request this if you want, but since we were required to do our own assessment I did not think it was relevant. I assumed you only wanted to verify that we had performed our own Phase I.

If you have any questions, please let me know.

Thank you.

A handwritten signature in cursive script that reads "Taran Ley".

Taran Ley
Ley Properties Management Incorporated
8135 Donna Lane
Cantrall, IL 62625
ph: (217) 691-8636

CAPITAL STATION
SPRINGFIELD, Illinois
627064000

1615500606-0099

05/16/2008 (217)753-3543 11:07:58 AM

=====

Sales Receipt			
Product	Sale Unit	Final	
Description	Qty	Price	Price

=====

PEORIA IL 61614 \$5.20

Zone-2 Priority Mail

2 lb. 6.90 oz.

Return Rcpt (Green \$2.20

Card)

Certified \$2.70

Label #: 70052570000205385706

=====

Issue PVI: \$10.10

=====

Total: \$10.10

Paid by:

Cash \$15.00

Change Due: -\$4.90

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Clerk:06

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Total Postage & Fees	\$	\$10.10	

Sent To: SUSTIN STERNES

Street, Apt. No.,
or PO Box No. OSHA

City, State, ZIP+4 PEORIA, IL 61614

PS Form 3800, June 2002 See Reverse for Instructions

7005 2570 0002 0538 5706

Date: July 17, 2008

To: Mr. David Stowers
Parkland Environmental Group
2161 E. Moffat
Springfield, Illinois 62702

From: Taran Ley
Ley Properties Management Inc.
8135 Donna Lane
Cantrall, Illinois 62625

David:

Mr. Justin Sternes at OSHA called me yesterday and told me to send you a copy of Cargill's Asbestos Building Inspection Report (enclosed) which we received from Cargill during our purchase negotiations. Cargill provided this to us under a confidentiality agreement so it cannot be distributed or used without their express permission. It is for your records only. I also informed Mr. Sternes of this.

We have not used the report. Cargill did not attest to the completeness or accuracy of its contents. Both Pillsbury and Cargill had an asbestos abatement program going on so I don't know what portions of the report have been abated since it was published in December, 1996. We have also never assumed that the report would take the place of a complete testing, removal, and monitoring program for any asbestos work that Ley Properties does at the former Cargill site.

Courtice Grason was provided with a copy of the report also, by Cargill, when they did their Phase I study for us. Courtice signed a confidentiality agreement with them in order to obtain a copy. He referenced the report in his Phase I which is how OSHA knows it exists. OSHA had asked for a copy of our Phase I report back in May.

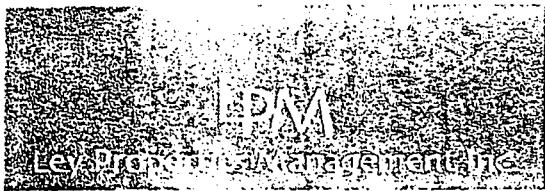
At any rate, since OSHA told me to send it to you I am doing so. I don't know if it would be a "finding" against us if I don't send you a copy so I wanted to comply. Please remember it is not for distribution. I've marked on the front of the report "Do Not Distribute Without Written Permission Of Cargill."

Let me know if you have any questions.

Thanks.


Taran

Enclosure: *Asbestos Building Inspection Report-Cargill Corporation-Springfield Dry Milling Facility*, Prepared for: Mr. Joe Ross, Cargill Corporation, 1525 East Philips Street, Springfield, Illinois 62702-4128, Prepared by: Rust Environment & Infrastructure, 11785 Highway Drive, Suite 100, Cincinnati, Ohio 45241, Project No. 43776.100 (December, 1996).



1515 S. Phillips Street, Springfield, IL 62702
Springfield, Illinois
618-691-8636
217-691-8636
www.leyproperty.com
mail@leyproperty.com

National Salvage & Service Corporation
6755 S. Old State Road 37
Bloomington, IN 47401

Attn: Mr. Curtis Schopp, Vice-President

Dear Curtis:

Thank you again for meeting with us. We are hopeful that we can move forward with a demolition/salvage project.

Per our discussion, I have enclosed the Asbestos Building Inspection Report (December 1996). Let me know if you have any questions. You may contact me at the e-mail address for the corporation (listed on the letterhead) or at (217) 691-8636.

Looking forward to hearing from you!

Taran Ley

Enclosure: Asbestos Building Inspection Report – Cargill Corporation-Springfield Facility-1525 East Phillips Street-Springfield, IL 62702-4128 (December 1996) with Attachments 1 thru 3.



FedEx Office

3432 FREEDOM DR
SPRINGFIELD, IL 62704

Location: SPIK
Device ID: SPIK-POS1
Employee: 1873332
Transaction: 78091533859

STANDARD OVERNIGHT

803469998215 1.35 lb (S) 28.34
Direct Signature

Scheduled Delivery Date 07/26/2013

Shipment subtotal: 28.34

Total Due: 28.34

Check: 28.34
1012

M = Weight entered manually
S = Weight read from scale
I = Taxable item

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1.800.463.3339

July 25, 2013 1:10:34 PM

FedEx *NEW Package*
Express *US Airbill*

FedEx Tracking Number **8034 6999 8215**

1 From Please print and press hard.

Date **7/25/2013** Sender's FedEx Account Number **00000000000000000000**
Sender's Name **Laran Ley** Phone **(217) 691-8636**
Company **Ley Properties Management, Inc.**
Address **8135 Donna Lane** Dept./Room/Suite/Room
City **Cantrall** State **IL** ZIP **62625**

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

3 To
Recipient's Name **Curtis Schopp** Phone **(812) 320-0304**
Company **National Salvage Service Corp.**
Address **6755 S. Old State Road 37** HOLD Weekday
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Room/Suite/Room
Address **Bloomington** HOLD Saturday
Use this line for the HOLD location address or for continuation of your shipping address. State **IL** ZIP **47401**

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

Next Business Day

- ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☒ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.
☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

5 Packaging *Declared value limit \$500

- ☒ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options

- ☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
☐ No Signature Required
Package may be left without obtaining a signature for delivery.
☒ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.
Does this shipment contain dangerous goods?
One box must be checked.
☒ No ☐ Yes
As per attached Shipper's Declaration. ☐ Yes
Shipper's Declaration not required. ☐ Dry Ice
Dry Ice, 9, UN1845 x kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment Bill to:

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☒ Cash/Check
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Total Packages **1** Total Weight **2** lbs. Total Declared Value* **\$ 00**

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644

CONFIDENTIALITY AGREEMENT

This Confidentiality Agreement ("agreement"), effective the July 25, 2013 ("effective date") is made by and between Ley Properties Management Inc., an Illinois corporation with a principal place of business at 1525 E. Phillips Street, Springfield, IL 62702 (hereinafter "Ley Properties") and National Salvage & Service Corporation, an Indiana corporation, with a principal place of business at 6755 S. Old State Road 37, Bloomington, IN 47401 (hereinafter "Company"). Ley Properties and Company are collectively referred to herein as "Parties" in singular and plural usage, as required by context.

1. Purpose of this Agreement

The intent of this agreement is for Ley Properties to disclose Asbestos Building Inspection Report with Attachments 1 thru 3, dated December 1996, to Company for a potential salvage and/or demolition operation and to protect the confidential nature of such discussions. In order to facilitate the discussions contemplated hereunder, Ley Properties may provide to Company certain confidential information, as defined below. This information is proprietary, secret, and confidential, and will be disclosed to Company only on the following conditions.

2. Definition of Confidential Information

"Confidential Information" shall mean any information related to Purpose set forth above and disclosed by Ley Properties to Company, either directly or indirectly. Confidential information may include, by way of example but without limitation, products, reports, specifications, formulae, equipment, business strategies, client and contractors lists, drawings, pricing information, ideas, and other information, or its potential use, that is owned or in possession of Ley Properties. Confidential Information shall not include that which: (a) is in the public domain prior to disclosure by Ley Properties to Company; (b) becomes part of the public domain, by publication or otherwise, through no unauthorized act or omission on the part of Company; or (c) is lawfully in Company's possession prior to disclosure by Ley Properties.

3. Obligations of Protection

Proper and appropriate steps shall be taken and maintained by Company to protect Confidential Information. Dissemination of Confidential Information shall be limited to employees or agents that are directly involved with discussions contemplated by this Agreement, and even then only to such extent as is necessary and essential. Company shall inform their employees and agents of the confidential nature of the information disclosed hereunder and cause all such employees and agents abide by the terms of this Agreement.

4. Obligations of Non-Disclosure

Company shall not disclose Confidential Information to any unauthorized party (including but not limited to contractors and consultants) without prior express consent of Ley Properties or

unless required by law or court order. If Company is required by law or court order to disclose Confidential Information, Company shall provide Ley Properties prompt written notice of such requirements so that an appropriate protective order or other relief may be sought. The obligations imposed by this Agreement, including but not limited to non-disclosure and non-use, however shall endure so long as the Confidential Information does not become part of the public domain.

5. Authorized Use and Ownership of Confidential Information

Confidential Information will be used only in connection with discussions contemplated by this Agreement; no other use of Confidential Information will be made by Company, it being recognized Ley Properties has reserved all rights to Confidential Information not expressly granted herein. All documents containing Confidential Information and provided by Ley Properties shall remain the property of Ley Properties, and all such documents, and copies thereof, shall be returned or destroyed upon the request of Ley Properties. Documents prepared by Ley Properties using Confidential Information, or derived therefrom, shall be destroyed upon request of Ley Properties, confirmation of which shall be provided in writing. Company, however, may keep one copy of any document requested to be returned or destroyed in the files of its legal department or outside counsel for record purposes only.

6. Ownership of Intellectual Property

Any intellectual property conceived or developed during the course of discussions entered into under this Agreement based upon or arising from Confidential Information shall be solely owned by Ley Properties. Except as expressly provided herein, no license or right is granted hereby to the Company, by implication or otherwise, with respect to or under any patent application, patent, claims of patent or proprietary rights of Ley Properties

7. General Provisions

This agreement shall be governed by and construed in accordance with the laws of the State of Illinois, USA (notwithstanding conflict of laws) and the Parties hereby submit to non-exclusive jurisdiction and venue in the state and federal courts of Illinois for purposes of interpretation, validity, and enforcement of the terms of this Agreement.

This Agreement shall not be assigned by Company without the prior written consent of Ley Properties, which consent shall not be unreasonably withheld. This Agreement shall be binding upon and shall inure to the benefit of the Parties and their permitted successors and assigns. Company acknowledges a breach of this Agreement would cause irreparable harm to Ley Properties, which harm could not be adequately compensated for by damages. Accordingly, in the event of such breach, Company acknowledges and agrees that Ley Properties shall be entitled, in its discretion, to injunctive relief.

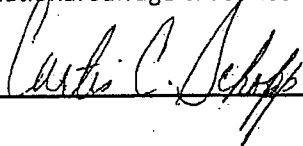
Failure to enforce any provision of this Agreement shall not constitute a waiver of any other terms and conditions hereof.

No amendment, modification, or waiver of the terms of this Agreement shall be binding, unless placed in writing and duly executed by the Parties' authorized representatives.

The Parties, through their authorized representative, hereby agree to the terms and conditions of this Agreement.

Ley Properties Management, Inc.

National Salvage & Service Corporation



- NSSC Corp. - Haykey

7/2 Jason

Curtis Schopp

7/15 Jason out of office - left a message

7/18 Talked to Curtis - set up Mtg for 7/23

7/23 On-site meeting w/ Curtis 8-10:30
Send asbestos report

7/24 Emailed Confidentiality Agreement at 7:00 a.m.