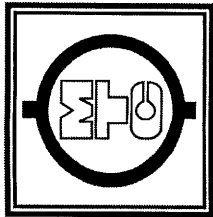


## **SECTION 5.4 – ASBESTOS ANALYSIS RESULTS**



**Materials Testing Consultants, Inc.**  
 693 Plymouth NE • Grand Rapids, MI 49505  
 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 1  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Michigan Mart  
 Date: 16-May-09

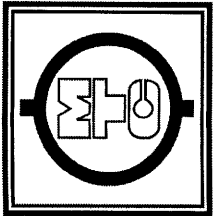
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description               | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|----------------------------------|------------------------|----------------------------|------------------------------|
| 34588<br>101              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 0%<br>None Detected    | 25%<br>Mineral Wool        | Binder/Filler                |
| 34588<br>101              | 12/7/1999<br>12/17/1999        | 2     | Tan, Fibers, Woven               | 0%<br>None Detected    | 75%<br>Cellulose Fiber     | Binder/Filler                |
| 34589<br>102              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 0%<br>None Detected    | 25%<br>Mineral Wool        | Binder/Filler                |
| 34589<br>102              | 12/7/1999<br>12/17/1999        | 2     | Tan, Fibers, Woven               | 0%<br>None Detected    | 75%<br>Cellulose Fiber     | Binder/Filler                |
| 34590<br>103              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 0%<br>None Detected    | 25%<br>Mineral Wool        | Binder/Filler                |
| 34590<br>103              | 12/7/1999<br>12/17/1999        | 2     | Tan, Fibers, Woven               | 0%<br>None Detected    | 75%<br>Cellulose Fiber     | Binder/Filler                |
| 34591<br>201              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fibers, Woven              | 0%<br>None Detected    | 60%<br>Fibrous Glass       | Binder/Filler                |
| 34592<br>301              | 12/7/1999<br>12/17/1999        | 1     | Black, Fiber and Mineral Mixture | 0%<br>None Detected    | 25%<br>Fibrous Glass       | Binder/Filler                |
| 401                       | 4/9/2009<br>4/13/2009          | 1     | Gray/Tan, Fibrous, Homogeneous   | 0%<br>None Detected    | 10%<br>Cellulose           | 90% Non-Fibrous (other)      |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc. **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, Inc.**  
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(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 1  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Michigan Mart  
Date: 16-May-09

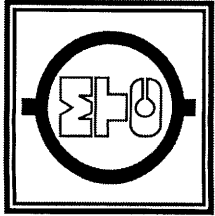
## Polarized Light Microscopy Analysis Report

| Lab Number | Date Received         | Layer | Sample Description         | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material         |
|------------|-----------------------|-------|----------------------------|------------------------|----------------------------|--------------------------------------|
| 402        | 4/9/2009<br>4/13/2009 | 1     | Gray, Fibrous, Homogeneous | 0%                     | None Detected<br>4%        | 96% Non-Fibrous (other)<br>Cellulose |
| 403        | 4/9/2009<br>4/13/2009 | 1     | Gray, Fibrous, Homogeneous | 0%                     | None Detected<br>2%        | 98% Non-Fibrous (other)<br>Cellulose |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc. **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials  
Testing  
Consultants, INC.**

693 Plymouth NE • Grand Rapids, MI 49505  
(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 2  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: West Mall  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|----------------------------|------------------------------|
| 101                       | 4/9/2009<br>4/10/2009          | 1     | Tan/Brown, Fibrous, Heterogeneous  | 0%<br>None Detected    | 10%<br>Cellulose           | 90% Non-Fibrous (other)      |
| 102                       | 4/9/2009<br>4/10/2009          | 1     | Gray/Brown, Fibrous, Heterogeneous | 0%<br>None Detected    | 15%<br>Cellulose           | 85% Non-Fibrous (other)      |
| 103                       | 4/9/2009<br>4/10/2009          | 1     | Gray/Brown, Fibrous, Heterogeneous | 0%<br>None Detected    | 15%<br>Cellulose           | 85% Non-Fibrous (other)      |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

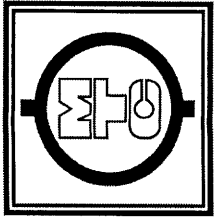
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc.

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, Inc.**  
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Job No.: 081563  
 Building No.: 3  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Agriculture Building  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

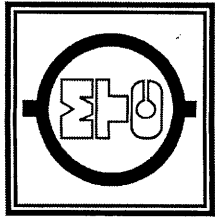
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description               | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|----------------------------------|------------------------|----------------------------|------------------------------|
| 34606<br>101              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 3%<br>Chrysotile       | 0%<br>None Detected        | Binder/Filler                |
| 34607<br>201              | 12/7/1999<br>12/17/1999        | 1     | Black, Fiber and Mineral Mixture | 10%<br>Chrysotile      | 0%<br>None Detected        | Binder/Filler                |
| 34608<br>301              | 12/7/1999<br>12/17/1999        | 1     | Brown, Tar                       | 0%<br>None Detected    | 2%<br>Cellulose Fiber      | Binder/Filler                |
| 34608<br>301              | 12/7/1999<br>12/17/1999        | 2     | Black, Tar                       | 0%<br>None Detected    | 5%<br>Cellulose Fiber      | Binder/Filler                |
| 34609<br>501              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 0%<br>None Detected    | 3%<br>Cellulose Fiber      | Binder/Filler                |
| 34610<br>502              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 0%<br>None Detected    | 3%<br>Cellulose Fiber      | Binder/Filler                |
| 34611<br>503              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture  | 0%<br>None Detected    | 3%<br>Cellulose Fiber      | Binder/Filler                |
| 601                       | 4/9/2009<br>4/13/2009          | 1     | Black, Fibrous, Homogeneous      | 0%<br>None Detected    | <1%<br>Cellulose           | 100% Non-Fibrous (other)     |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc.

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 5  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Coliseum  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

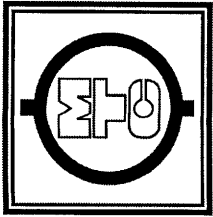
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                   | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------------|------------------------|----------------------------|------------------------------|
| 34901                     | 12/6/1999                      | 1     | Black, Fibers Compressed Into Sheets | 0%                     | None Detected              | Cellulose Fiber              |
| 101                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |
| 34901                     | 12/6/1999                      | 2     | Grey, Rubbery Material               | 0%                     | None Detected              | Cellulose Fiber              |
| 101                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |
| 34902                     | 12/6/1999                      | 1     | Black, Fibers and Tar Mixture        | 0%                     | None Detected              | Cellulose Fiber              |
| 201                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |
| 34903                     | 12/6/1999                      | 1     | Grey, Fiber and Filler Mixture       | 35%                    | Chrysotile                 | Cellulose Fiber              |
| 301                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |
| 34903                     | 12/6/1999                      | 2     | Tan, Fibers, Woven                   | 0%                     | None Detected              | Cellulose Fiber              |
| 301                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |
| 302                       | 12/6/1999                      | 1     | Not Analyzed                         | ----                   | ----                       | ----                         |
| 12/20/1999                |                                |       |                                      |                        |                            | Binder/Filler                |
| 303                       | 12/6/1999                      | 1     | Not Analyzed                         | ----                   | ----                       | ----                         |
| 12/20/1999                |                                |       |                                      |                        |                            | Binder/Filler                |
| 34904                     | 12/6/1999                      | 1     | Grey, Fiber and Filler Mixture       | 35%                    | Chrysotile                 | Mineral Wool                 |
| 401                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |
| 34904                     | 12/6/1999                      | 2     | Tan, Fibers, Woven                   | 0%                     | None Detected              | Cellulose Fiber              |
| 401                       | 12/20/1999                     |       |                                      |                        |                            | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.F.E.



**Materials Testing Consultants, Inc.**  
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 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 5  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Coliseum  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

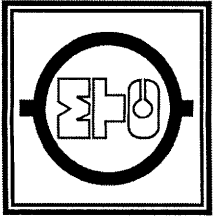
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|----------------------------|------------------------------|
| 402                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                   | -----                  | -----                      | Binder/Filler                |
| 403                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                   | -----                  | -----                      | Binder/Filler                |
| 34905<br>501              | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 40%                    | 0%                         | Binder/Filler                |
| 34905<br>501              | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers, Woven             | 0%                     | 75%                        | Binder/Filler                |
| 502                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                   | -----                  | -----                      | Binder/Filler                |
| 503                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                   | -----                  | -----                      | Binder/Filler                |
| 34906<br>601              | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 35%<br>10%             | 0%                         | Binder/Filler                |
| 34906<br>601              | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers, Woven             | 0%                     | 75%                        | Binder/Filler                |
| 602                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                   | -----                  | -----                      | Binder/Filler                |

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## Polarized Light Microscopy Analysis Report

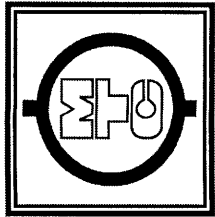
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos                                     | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|--|------------------------------|
| 603                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                       | -----                  | -----  | Binder/Filler                |
| 34907<br>801              | 12/6/1999<br>12/20/1999        | 1     | Tan, Fibers, Woven                 | 0%                     | 75%<br>Cellulose Fiber   | Binder/Filler                |
| 34907<br>801              | 12/6/1999<br>12/20/1999        | 2     | Grey, Fiber and Filler Mixture     | 35%                    | 10%<br>Chrysotile<br>Mineral Wool                              | Binder/Filler                |
| 34907<br>801              | 12/6/1999<br>12/20/1999        | 2     | White, Fiber and Filler Mixture    | 20%<br>5%<br>3%        | 0%<br>Amosite<br>Crocidolite<br>Chrysotile                     | Binder/Filler                |
| 802                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                       | -----                  | -----  | Binder/Filler                |
| 803                       | 12/6/1999<br>12/20/1999        | 1     | Not Analyzed                       | -----                  | -----  | Binder/Filler                |
| 34908<br>1001             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | 10%<br>5%<br>None Detected<br>Fibrous Glass<br>Cellulose Fiber | Binder/Filler                |
| 34908<br>1001             | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | 75%<br>None Detected<br>Cellulose Fiber                        | Binder/Filler                |
| 34909<br>1002             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | 10%<br>5%<br>None Detected<br>Fibrous Glass<br>Cellulose Fiber | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

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 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
 693 Plymouth NE • Grand Rapids, MI 49505  
 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 5  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Coliseum  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

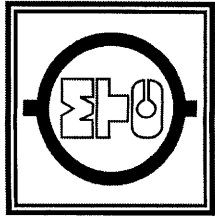
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material                             |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|----------------------------|--|
| 34909<br>1002             | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler                     |
| 34910<br>1003             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 10% Fibrous Glass<br>5% Cellulose Fiber<br>Binder/Filler |
| 34910<br>1003             | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler                     |
| 34911<br>1101             | 12/6/1999<br>12/20/1999        | 1     | Tan, Compressed, Tile              | 3%                     | Chrysotile                 | 0% None Detected<br>Binder/Filler                        |
| 34911<br>1101             | 12/6/1999<br>12/20/1999        | 2     | Yellow, Mastic                     | 0%                     | None Detected              | 2% Cellulose Fiber<br>Binder/Filler                      |
| 34912<br>1201             | 12/6/1999<br>12/20/1999        | 1     | Grey, Compressed, Vinyl Tile       | 0%                     | None Detected              | 0% None Detected<br>Binder/Filler                        |
| 34912<br>1201             | 12/6/1999<br>12/20/1999        | 2     | Black, Compressed, Rubber Backing  | 0%                     | None Detected              | 0% None Detected<br>Binder/Filler                        |
| 34913<br>1301             | 12/6/1999<br>12/20/1999        | 1     | Black, Compressed, Vinyl Tile      | 0%                     | None Detected              | 0% None Detected<br>Binder/Filler                        |
| 34914<br>1401             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture     | 0%                     | None Detected              | 60% Cellulose Fiber<br>Binder/Filler                     |

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 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 5  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Coliseum  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

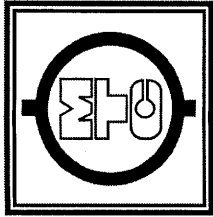
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos  | Type of Non-Fibrous Material                     |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|-----------------------------|--|
| 34915<br>1501             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>35%        | Mineral Wool<br>Binder/Filler                    |
| 34916<br>1502             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>35%        | Mineral Wool<br>Binder/Filler                    |
| 34916<br>1502             | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers, Woven              | 0%                     | None Detected<br>75%        | Cellulose Fiber<br>Binder/Filler                 |
| 34917<br>1503             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>35%        | Mineral Wool<br>Binder/Filler                    |
| 34917<br>1503             | 12/6/1999<br>12/20/1999        | 2     | Tan, Fibers, Woven              | 0%                     | None Detected<br>75%        | Cellulose Fiber<br>Binder/Filler                 |
| 34918<br>1601             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>10%        | Fibrous Glass<br>Binder/Filler                   |
| 34919<br>1701             | 12/6/1999<br>12/20/1999        | 1     | Green, Compressed, Rubber       | 0%                     | None Detected<br>0%         | None Detected<br>Binder/Filler                   |
| 34919<br>1701             | 12/6/1999<br>12/20/1999        | 2     | Black, Compressed, Rubber       | 0%                     | None Detected<br>0%         | None Detected<br>Binder/Filler                   |
| 34920<br>1801             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>35%<br>15% | Cellulose Fiber<br>Mineral Wool<br>Binder/Filler |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

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**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 5  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Coliseum  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

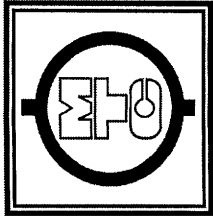
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|----------------------------|------------------------------|
| 34921<br>1901             | 12/6/1999<br>12/20/1999        | 1     | Red, Mineral Mixture           | 0%                     | None Detected              | Binder/Filler                |
| 34922<br>2001             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected              | Binder/Filler                |
| 34923<br>2101             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected              | Binder/Filler                |
| 34924<br>2201             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected              | Binder/Filler                |
| 34925<br>2301             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected              | Binder/Filler                |
| 34926<br>2401             | 12/6/1999<br>12/20/1999        | 1     | White, Mineral Mixture         | 0%                     | None Detected              | Binder/Filler                |
| 34927<br>2402             | 12/6/1999<br>12/20/1999        | 1     | White, Mineral Mixture         | 0%                     | None Detected              | Binder/Filler                |
| 34928<br>2403             | 12/6/1999<br>12/20/1999        | 1     | White, Mineral Mixture         | 0%                     | None Detected              | Binder/Filler                |
| 34929<br>2501             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected              | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
 693 Plymouth NE • Grand Rapids, MI 49505  
 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 5  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Coliseum  
 Date: 16-May-09

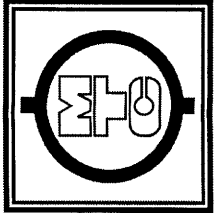
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                   | % and Type of Asbestos | % and Type of Non-Asbestos                               | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------------|------------------------|--|------------------------------|
| 34930<br>2601             | 12/6/1999<br>12/20/1999        | 1     | Grey, Fiber and Filler Mixture       | 0%                     | None Detected<br>35% Mineral Wool<br>20% Cellulose Fiber | Binder/Filler                |
| 34931<br>2701             | 12/6/1999<br>12/20/1999        | 1     | Grey, Compressed, Tile               | 0%                     | None Detected<br>1% Cellulose Fiber                      | Binder/Filler                |
| 34931<br>2701             | 12/6/1999<br>12/20/1999        | 2     | Yellow, Mastic                       | 0%                     | None Detected<br>5% Cellulose Fiber                      | Binder/Filler                |
| 34932<br>2801             | 12/6/1999<br>12/20/1999        | 1     | Black, Fibers, Woven, Rubber Coating | 0%                     | None Detected<br>65% Synthetic Fiber                     | Binder/Filler                |
| 2901                      | 4/9/2009<br>4/14/2009          | 1     | Beige/Black, Fibrous, Homogeneous    | 0%                     | None Detected<br>10% Cellulose                           | 90% Non-Fibrous (other)      |
| 2902                      | 4/9/2009<br>4/14/2009          | 1     | Beige/Black, Fibrous, Homogeneous    | 0%                     | None Detected<br>10% Cellulose                           | 90% Non-Fibrous (other)      |
| 2903                      | 4/9/2009<br>4/14/2009          | 1     | Cream/Black, Fibrous, Heterogeneous  | 0%                     | None Detected<br>5% Cellulose                            | 95% Non-Fibrous (other)      |
| 3001                      | 4/9/2009<br>4/14/2009          | 1     | Green, Fibrous, Homogeneous          | 0%                     | None Detected<br>2% Cellulose                            | 98% Non-Fibrous (other)      |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc. **Reviewed By:** Christopher J. Kestner, C.I.E.



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693 Plymouth NE • Grand Rapids, MI 49505  
(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 6  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Dairy Cattle Building  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

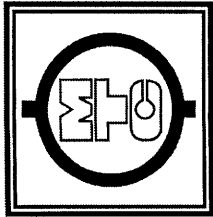
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material         |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|----------------------------|--------------------------------------|
| 34584<br>101              | 12/7/1999<br>12/17/1999        | 1     | Grey, Mineral Mixture              | 0%                     | None Detected              | 2% Cellulose Fiber<br>Binder/Filler  |
| 34585<br>301              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Fibrous Glass<br>Binder/Filler   |
| 34585<br>301              | 12/7/1999<br>12/17/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34586<br>302              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Fibrous Glass<br>Binder/Filler   |
| 34586<br>302              | 12/7/1999<br>12/17/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34587<br>303              | 12/7/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Fibrous Glass<br>Binder/Filler   |
| 34587<br>303              | 12/7/1999<br>12/17/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 9  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Main Horse Barn  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

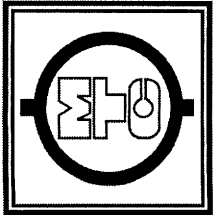
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description         | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|----------------------------|------------------------|----------------------------|------------------------------|
| 34572<br>101              | 12/8/1999<br>12/15/1999        | 1     | Tan, Compressed, Tile      | 0%                     | None Detected              | Binder/Filler                |
| 34576<br>101              | 12/7/1999<br>12/15/1999        | 1     | Grey, Caulking             | 5%                     | Chrysotile                 | Binder/Filler                |
| 34577<br>201              | 12/7/1999<br>12/15/1999        | 1     | Grey, Compressed, Transite | 30%                    | Chrysotile                 | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 11  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Grand Champion Barn  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number | Date Received | Layer | Sample Description           | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|------------|---------------|-------|------------------------------|------------------------|----------------------------|------------------------------|
| 34565      | 12/8/1999     | 1     | Black Fibers and Tar Mixture | 0%                     | None Detected              | Fibrous Glass                |
| 101        | 12/15/1999    |       |                              |                        |                            | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

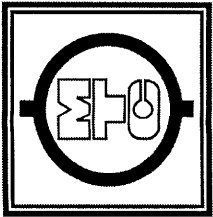
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 12  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Mult-Livestock Barn  
Date: 16-May-09

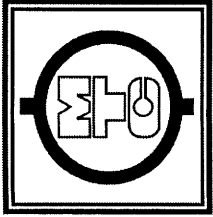
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos                    | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|---|------------------------------|
| 34572<br>101              | 12/8/1999<br>12/15/1999        | 2     | Black, Mastic                  | 0%<br>None Detected    | 0%<br>None Detected                           | Binder/Filler                |
| 34573<br>201              | 12/8/1999<br>12/15/1999        | 1     | Grey, Fiber and Filler Mixture | 0%<br>None Detected    | 35%<br>20%<br>Cellulose Fiber<br>Mineral Wool | Binder/Filler                |
| 34574<br>301              | 12/8/1999<br>12/15/1999        | 1     | Grey, Fiber and Filler Mixture | 0%<br>None Detected    | 35%<br>25%<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34575<br>401              | 12/8/1999<br>12/15/1999        | 1     | Brown, Compressed, Vinyl Tile  | 0%<br>None Detected    | 0%<br>None Detected                           | Binder/Filler                |
| 34575<br>401              | 12/8/1999<br>12/15/1999        | 2     | Yellow, Mastic                 | 0%<br>None Detected    | 0%<br>None Detected                           | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson **Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 13  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Whitehall  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

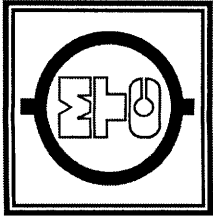
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos       | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|----------------------------------|------------------------------|
| 34601<br>101              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                |
| 34602<br>102              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                |
| 34603<br>103              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                |
| 34604<br>201              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                |
| 34605<br>301              | 12/8/1999<br>12/17/1999        | 1     | Black, Fibers and Tar Mixture   | 10%                    | Chrysotile<br>None Detected      | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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**Job No.:** 081563  
**Building No.:** 14  
**Project:** Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
**Building:** Volunteer Headquarters  
**Date:** 16-May-09

## Polarized Light Microscopy Analysis Report

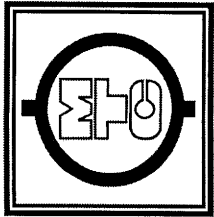
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos       | Type of Non-Fibrous Material     |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|----------------------------------|----------------------------------|
| 34800<br>101              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture | 45%                    | Chrysotile<br>0%                 | None Detected<br>Binder/Filler   |
| 34800<br>101              | 12/13/1999<br>12/20/1999       | 2     | White, Fibers, Woven            | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                    |
| 102                       | 12/13/1999<br>12/20/1999       | 1     | Not ANot Analyzedlyzed          | -----                  | -----                            | Binder/Filler                    |
| 103                       | 12/13/1999<br>12/20/1999       | 1     | Not ANot Analyzedlyzed          | -----                  | -----                            | Binder/Filler                    |
| 34801<br>201              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Filler Mixture  | 40%                    | Chrysotile<br>10%                | Cellulose Fiber<br>Binder/Filler |
| 34801<br>201              | 12/13/1999<br>12/20/1999       | 2     | Tan, Fibers, Woven              | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                    |
| 34802<br>301              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture | 20%                    | Chrysotile<br>0%                 | None Detected<br>Binder/Filler   |
| 34802<br>301              | 12/13/1999<br>12/20/1999       | 2     | Tan, Fibers, Woven              | 0%                     | None Detected<br>Cellulose Fiber | Binder/Filler                    |
| 34803<br>401              | 12/13/1999<br>12/20/1999       | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected<br>Cellulose Fiber | 65%<br>Binder/Filler             |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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693 Plymouth NE • Grand Rapids, MI 49505  
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Job No.: 081563  
Building No.: 14  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Volunteer Headquarters  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|----------------------------|------------------------------|
| 34804                     | 12/13/1999                     | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 402                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34805                     | 12/13/1999                     | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 403                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34806                     | 12/13/1999                     | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 404                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34807                     | 12/13/1999                     | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 405                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34808                     | 12/13/1999                     | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 501                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34809                     | 12/13/1999                     | 1     | Grey, Mineral Mixture           | 0%                     | None Detected              | Cellulose Fiber              |
| 601                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34810                     | 12/13/1999                     | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 602                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34811                     | 12/13/1999                     | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected              | Cellulose Fiber              |
| 603                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |
| 34812                     | 12/13/1999                     | 1     | Grey, Compressed, Tile          | 1%                     | Chrysotile                 | None Detected                |
| 701                       | 12/20/1999                     |       |                                 |                        |                            | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

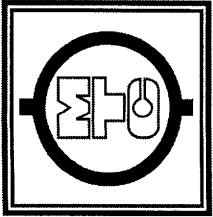
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials  
Testing  
Consultants, INC.**

693 Plymouth NE • Grand Rapids, MI 49505  
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Job No.: 081563  
Building No.: 14  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Volunteer Headquarters  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description         | % and Type of Asbestos | % and Type of Non-Asbestos                  | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|----------------------------|------------------------|---|------------------------------|
| 34812<br>701              | 12/13/1999<br>12/20/1999       | 2     | Black, Mastic              | 2%                     | Chrysotile<br>None Detected                 | Binder/Filler                |
| 34813<br>801              | 12/13/1999<br>12/20/1999       | 1     | Brown, Compressed, Tile    | 0%                     | None Detected                               | Binder/Filler                |
| 1001                      | 5/5/2009<br>5/5/2009           | 1     | Gray, Fibrous, Homogeneous | 0%                     | None Detected<br>20% Cellulose<br>40% Glass | 40% Non-Fibrous (other)      |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

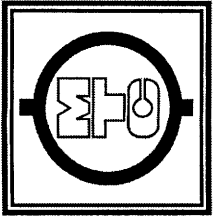
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc.

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 15  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Band Shell  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                    | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------------|------------------------|----------------------------|------------------------------|
| 34858<br>101              | 12/13/1999<br>12/20/1999       | 1     | Black, Compressed, Vinyl Tile         | 0%                     | None Detected              | Binder/Filler                |
| 34859<br>201              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Filler Mixture        | 0%                     | None Detected              | Binder/Filler                |
| 34860<br>301              | 12/13/1999<br>12/20/1999       | 1     | Brown, Compressed, Vinyl Tile         | 0%                     | None Detected              | Binder/Filler                |
| 34860<br>301              | 12/13/1999<br>12/20/1999       | 2     | Yellow, Mastic                        | 0%                     | None Detected              | Binder/Filler                |
| 34861<br>401              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Filler Mixture        | 0%                     | None Detected              | Binder/Filler                |
| 34862<br>501              | 12/13/1999<br>12/20/1999       | 1     | Black, Tar                            | 0%                     | None Detected              | Binder/Filler                |
| 34863<br>601              | 12/13/1999<br>12/20/1999       | 1     | Black, Fibers Compressed Into Sheets  | 0%                     | None Detected              | Binder/Filler                |
| 34864<br>701              | 12/13/1999<br>12/20/1999       | 1     | Black, Fibers Compressed Into Sheets  | 60%                    | Chrysotile                 | Binder/Filler                |
| 34864<br>701              | 12/13/1999<br>12/20/1999       | 2     | Silver, Fibers Compressed Into Sheets | 60%                    | Chrysotile                 | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

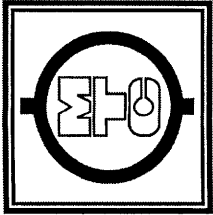
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563

Building No.: 16

Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center

Building: Dodge Pavilion

Date: 16-May-09

## Polarized Light Microscopy Analysis Report

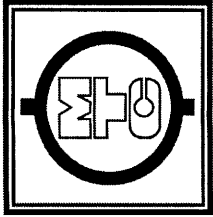
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                   | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material         |
|---------------------------|--------------------------------|-------|--------------------------------------|------------------------|----------------------------|--------------------------------------|
| 34616<br>101              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Filler Mixture       | 0%                     | None Detected              | 35% Mineral Wool<br>Binder/Filler    |
| 34616<br>101              | 12/8/1999<br>12/17/1999        | 2     | Brown, Mastic                        | 3%                     | Chrysotile                 | 0% None Detected<br>Binder/Filler    |
| 102                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                  | -----                      | -----<br>Binder/Filler               |
| 103                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                  | -----                      | -----<br>Binder/Filler               |
| 34617<br>201              | 12/8/1999<br>12/17/1999        | 1     | Tan, Fibers Compressed Into Sheets   | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34617<br>201              | 12/8/1999<br>12/17/1999        | 2     | Tan, Fibers, Woven                   | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler |
| 34618<br>202              | 12/8/1999<br>12/17/1999        | 1     | Tan, Fibers Compressed Into Sheets   | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34618<br>202              | 12/8/1999<br>12/17/1999        | 2     | Black, Fibers Compressed Into Sheets | 40%                    | Chrysotile                 | 30% Cellulose Fiber<br>Binder/Filler |
| 203                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                  | -----                      | -----<br>Binder/Filler               |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials  
Testing  
Consultants, INC.**

693 Plymouth NE • Grand Rapids, MI 49505  
(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 16  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Dodge Pavilion  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

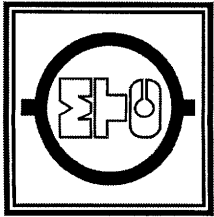
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos |               | % and Type of Non-Asbestos |                 | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|---------------|----------------------------|-----------------|------------------------------|
| 34619<br>301              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 30%                    | Chrysotile    | 5%                         | Fibrous Glass   | Binder/Filler                |
| 34619<br>301              | 12/8/1999<br>12/17/1999        | 2     | Tan, Fibers, Woven                 | 0%                     | None Detected | 70%                        | Cellulose Fiber | Binder/Filler                |
| 302                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                       | -----                  | -----         | -----                      | -----           | Binder/Filler                |
| 303                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                       | -----                  | -----         | -----                      | -----           | Binder/Filler                |
| 34620<br>401              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected | 15%                        | Cellulose Fiber | Binder/Filler                |
| 34620<br>401              | 12/8/1999<br>12/17/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected | 70%                        | Cellulose Fiber | Binder/Filler                |
| 34621<br>402              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected | 15%                        | Cellulose Fiber | Binder/Filler                |
| 34621<br>402              | 12/8/1999<br>12/17/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected | 70%                        | Cellulose Fiber | Binder/Filler                |
| 34622<br>403              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected | 15%                        | Cellulose Fiber | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
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**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 16  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Dodge Pavilion  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                   | % and Type of Asbestos             | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------------|------------------------------------|----------------------------|------------------------------|
| 34622<br>403              | 12/8/1999<br>12/17/1999        | 2     | Tan, Fibers Compressed Into Sheets   | 0%<br>None Detected                | 70%<br>Cellulose Fiber     | Binder/Filler                |
| 34623<br>501              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture      | 35%<br>5%<br>Chrysotile<br>Amosite | 15%<br>Mineral Wool        | Binder/Filler                |
| 502                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                              | -----                      | Binder/Filler                |
| 503                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                              | -----                      | Binder/Filler                |
| 34624<br>601              | 12/8/1999<br>12/17/1999        | 1     | Off-White, Fiber and Mineral Mixture | 40%<br>5%<br>Chrysotile<br>Amosite | 0%<br>None Detected        | Binder/Filler                |
| 602                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                              | -----                      | Binder/Filler                |
| 603                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                              | -----                      | Binder/Filler                |
| 34625<br>701              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture      | 40%<br>Chrysotile                  | 0%<br>None Detected        | Binder/Filler                |
| 702                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                         | -----                              | -----                      | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

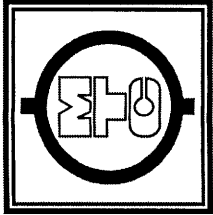
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 16  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Dodge Pavilion  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

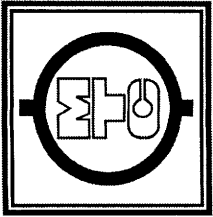
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|----------------------------|------------------------------|
| 703                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                    | -----                  | -----                      | Binder/Filler                |
| 34626<br>801              | 12/8/1999<br>12/17/1999        | 1     | Grey, Fiber and Mineral Mixture | 30%                    | 0%                         | Binder/Filler                |
| 802                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                    | -----                  | -----                      | Binder/Filler                |
| 803                       | 12/8/1999<br>12/17/1999        | 1     | Not Analyzed                    | -----                  | -----                      | Binder/Filler                |
| 34627<br>1001             | 12/8/1999<br>12/17/1999        | 1     | Grey, Fibers                    | 80%                    | 0%                         | Binder/Filler                |
| 34628<br>1101             | 12/8/1999<br>12/17/1999        | 1     | Grey, Compressed, Tile          | 3%                     | 0%                         | Binder/Filler                |
| 34628<br>1101             | 12/8/1999<br>12/17/1999        | 2     | Black, Mastic                   | 0%                     | 0%                         | Binder/Filler                |
| 34629<br>1201             | 12/8/1999<br>12/17/1999        | 1     | Red, Compressed, Tile           | 5%                     | 0%                         | Binder/Filler                |
| 34629<br>1201             | 12/8/1999<br>12/17/1999        | 2     | Black, Mastic                   | 0%                     | 2%                         | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

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**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 17  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Grants House  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

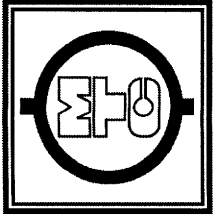
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos                               | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|--|------------------------------|
| 34844<br>101              | 12/13/1999<br>12/20/1999       | 1     | White, Mineral Mixture          | 0%                     | None Detected<br>1% Cellulose Fiber                      | Binder/Filler                |
| 34845<br>102              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>3% Cellulose Fiber                      | Binder/Filler                |
| 34845<br>102              | 12/13/1999<br>12/20/1999       | 2     | White, Mineral Mixture          | 0%                     | None Detected<br>1% Cellulose Fiber                      | Binder/Filler                |
| 34846<br>103              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>3% Cellulose Fiber                      | Binder/Filler                |
| 43847<br>201              | 12/13/1999<br>12/20/1999       | 1     | Grey, Compressed, Tile          | 0%                     | None Detected<br>2% Cellulose Fiber                      | Binder/Filler                |
| 43847<br>201              | 12/13/1999<br>12/20/1999       | 2     | Grey, Mastic                    | 3%                     | Chrysotile<br>0% None Detected                           | Binder/Filler                |
| 34848<br>301              | 12/13/1999<br>12/20/1999       | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>35% Cellulose Fiber<br>20% Mineral Wool | Binder/Filler                |
| 34849<br>401              | 12/13/1999<br>12/20/1999       | 1     | White, Mineral Mixture          | 0%                     | None Detected<br>0% None Detected                        | Binder/Filler                |
| 34850<br>402              | 12/13/1999<br>12/20/1999       | 1     | White, Mineral Mixture          | 0%                     | None Detected<br>0% None Detected                        | Binder/Filler                |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
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 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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693 Plymouth NE • Grand Rapids, MI 49505  
(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 17  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Grants House  
Date: 16-May-09

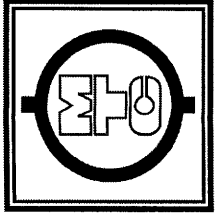
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                  | % and Type of Asbestos | % and Type of Non-Asbestos           | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|-------------------------------------|------------------------|--------------------------------------|------------------------------|
| 34851<br>403              | 12/13/1999<br>12/20/1999       | 1     | White, Fiber and Mineral Mixture    | 0%                     | None Detected<br>15% Cellulose Fiber | Binder/Filler                |
| 34851<br>403              | 12/13/1999<br>12/20/1999       | 2     | Tan, Fibers Compressed Into Sheets  | 0%                     | None Detected<br>70% Cellulose Fiber | Binder/Filler                |
| 501                       | 4/9/2009<br>4/11/2009          | 1     | Blue/Gray, Non-Fibrous, Homogeneous | 0%                     | None Detected<br>0% None Detected    | 100% Non-Fibrous (other)     |
| 601                       | 4/9/2009<br>4/11/2009          | 1     | Gray/Tan, Non-Fibrous, Homogeneous  | 0%                     | None Detected<br>0% None Detected    | 100% Non-Fibrous (other)     |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

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**Microscopist:** EMSL Analytical, Inc. **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials  
Testing  
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693 Plymouth NE • Grand Rapids, MI 49505  
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Job No.: 081563  
Building No.: 18  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Administration Building  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

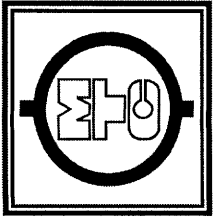
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos                       | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|--|------------------------------|
| 34814<br>101              | 12/12/1999<br>12/20/1999       | 1     | Grey, Fiber and Filler Mixture     | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34815<br>201              | 12/12/1999<br>12/20/1999       | 1     | Grey, Compressed, Tile             | 0%                     | None Detected                                    | Binder/Filler                |
| 34815<br>201              | 12/12/1999<br>12/20/1999       | 2     | Black, Mastic                      | 0%                     | None Detected                                    | Binder/Filler                |
| 34816<br>301              | 12/12/1999<br>12/20/1999       | 1     | Grey, Compressed, Vinyl Tile       | 0%                     | None Detected                                    | Binder/Filler                |
| 34817<br>401              | 12/12/1999<br>12/20/1999       | 1     | Grey, Mineral Mixture              | 0%                     | None Detected                                    | Binder/Filler                |
| 34818<br>402              | 12/12/1999<br>12/20/1999       | 1     | Grey, Mineral Mixture              | 0%                     | None Detected                                    | Binder/Filler                |
| 34819<br>403              | 12/12/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected<br>Cellulose Fiber                 | Binder/Filler                |
| 34819<br>403              | 12/12/1999<br>12/20/1999       | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected<br>Cellulose Fiber                 | Binder/Filler                |
| 34820<br>501              | 12/12/1999<br>12/20/1999       | 1     | Tan, Compressed, Vinyl Tile        | 0%                     | None Detected                                    | Binder/Filler                |

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**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 18  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Administration Building  
 Date: 16-May-09

### Polarized Light Microscopy Analysis Report

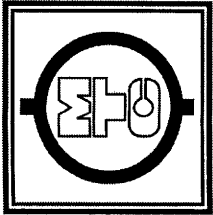
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                   | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material     |
|---------------------------|--------------------------------|-------|--------------------------------------|------------------------|----------------------------|----------------------------------|
| 34821<br>601              | 12/12/1999<br>12/20/1999       | 1     | Off-White, Fiber and Mineral Mixture | 20%                    | Chrysotile<br>10%          | Mineral Wool<br>Binder/Filler    |
| 34821<br>601              | 12/12/1999<br>12/20/1999       | 2     | White, Fibers, Woven                 | 0%                     | None Detected<br>75%       | Cellulose Fiber<br>Binder/Filler |
| 602                       | 12/12/1999<br>12/20/1999       | 1     | Not ANot Analyzedlyzed               | -----                  | -----                      | Binder/Filler                    |
| 603                       | 12/12/1999<br>12/20/1999       | 1     | Not ANot Analyzedlyzed               | -----                  | -----                      | Binder/Filler                    |
| 34822<br>701              | 12/12/1999<br>12/20/1999       | 1     | Black, Compressed, Vinyl Tile        | 0%                     | None Detected<br>0%        | None Detected<br>Binder/Filler   |
| 34823<br>801              | 12/12/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture      | 0%                     | None Detected<br>5%        | Cellulose Fiber<br>Binder/Filler |
| 34823<br>801              | 12/12/1999<br>12/20/1999       | 2     | Tan, Fibers Compressed Into Sheets   | 0%                     | None Detected<br>70%       | Cellulose Fiber<br>Binder/Filler |
| 34824<br>802              | 12/12/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture      | 0%                     | None Detected<br>5%        | Cellulose Fiber<br>Binder/Filler |
| 34824<br>802              | 12/12/1999<br>12/20/1999       | 2     | Tan, Fibers Compressed Into Sheets   | 0%                     | None Detected<br>70%       | Cellulose Fiber<br>Binder/Filler |

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**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 18  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Administration Building  
Date: 16-May-09

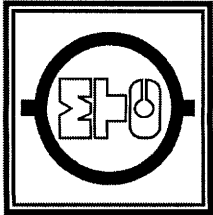
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos                                     | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|--|------------------------------|
| 34825<br>803              | 12/12/1999<br>12/20/1999       | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected<br>Cellulose Fiber<br>5%                         | Binder/Filler                |
| 34825<br>803              | 12/12/1999<br>12/20/1999       | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected<br>Cellulose Fiber<br>70%                        | Binder/Filler                |
| 34826<br>1001             | 12/12/1999<br>12/20/1999       | 1     | Grey, Fiber and Filler Mixture     | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber<br>35%<br>20% | Binder/Filler                |
| 1101                      | 4/9/2009<br>4/13/2009          | 1     | Gray, Fibrous, Homogeneous         | 0%                     | None Detected  | 100% Non-Fibrous (other)     |
| 1201                      | 4/9/2009<br>4/13/2009          | 1     | Black/Tan, Fibrous, Homogeneous    | 0%                     | None Detected<br>Cellulose<br>20%                              | 80% Non-Fibrous (other)      |

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**Microscopist:** EMSL Analytical, Inc. **Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 19  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Community Arts Building  
 Date: 16-May-09

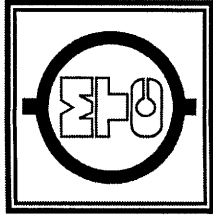
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                  | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material         |
|---------------------------|--------------------------------|-------|-------------------------------------|------------------------|----------------------------|--------------------------------------|
| 34867<br>101              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fibers Compressed Into Sheets | 40%                    | Chrysotile                 | 30% Cellulose Fiber<br>Binder/Filler |
| 34867<br>101              | 12/12/1999<br>12/23/1999       | 2     | White, Fibers, Woven                | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler |
| 102                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                        | -----                  | -----                      | -----<br>Binder/Filler               |
| 103                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                        | -----                  | -----                      | -----<br>Binder/Filler               |
| 34868<br>201              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture     | 10%                    | Chrysotile                 | 30% Mineral Wool<br>Binder/Filler    |
| 34868<br>201              | 12/12/1999<br>12/23/1999       | 2     | White, Fibers, Woven                | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler |
| 202                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                        | -----                  | -----                      | -----<br>Binder/Filler               |
| 203                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                        | -----                  | -----                      | -----<br>Binder/Filler               |
| 34869<br>301              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture     | 0%                     | None Detected              | 35% Mineral Wool<br>Binder/Filler    |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
 693 Plymouth NE • Grand Rapids, MI 49505  
 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 19  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Community Arts Building  
 Date: 16-May-09

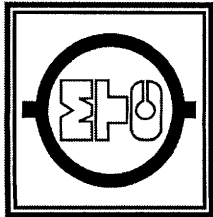
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos             | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|--|------------------------------|
| 34870<br>302              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Mineral Wool          | Binder/Filler                |
| 34870<br>302              | 12/12/1999<br>12/23/1999       | 2     | White, Fibers, Woven            | 0%                     | None Detected<br>Cellulose Fiber       | Binder/Filler                |
| 34871<br>303              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Mineral Wool          | Binder/Filler                |
| 34871<br>303              | 12/12/1999<br>12/23/1999       | 2     | White, Fibers, Woven            | 0%                     | None Detected<br>Cellulose Fiber       | Binder/Filler                |
| 34872<br>401              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture  | 45%                    | Chrysotile<br>Mineral Wool             | Binder/Filler                |
| 34872<br>401              | 12/12/1999<br>12/23/1999       | 2     | Tan, Fiber and Mineral Mixture  | 10%<br>35%             | Chrysotile<br>Amosite<br>None Detected | Binder/Filler                |
| 34872<br>401              | 12/12/1999<br>12/23/1999       | 3     | Tan, Fibers, Woven              | 0%                     | None Detected<br>Cellulose Fiber       | Binder/Filler                |
| 402                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                    | -----                  | -----                                  | Binder/Filler                |
| 403                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                    | -----                  | -----                                  | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials  
Testing  
Consultants, INC.**

693 Plymouth NE • Grand Rapids, MI 49505  
(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563

Building No.: 19

Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center

Building: Community Arts Building

Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material         |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|----------------------------|--------------------------------------|
| 34873<br>501              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture | 45%                    | Chrysotile                 | 10% Mineral Wool<br>Binder/Filler    |
| 34873<br>501              | 12/12/1999<br>12/23/1999       | 2     | Tan, Fiber and Mineral Mixture | 10%                    | Chrysotile                 | 0% None Detected<br>Binder/Filler    |
| 34873<br>501              | 12/12/1999<br>12/23/1999       | 3     | Tan, Fibers, Woven             | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler |
| 502                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                   | -----                  | -----                      | -----<br>Binder/Filler               |
| 503                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                   | -----                  | -----                      | -----<br>Binder/Filler               |
| 34874<br>601              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture | 45%                    | Chrysotile                 | 10% Mineral Wool<br>Binder/Filler    |
| 34874<br>601              | 12/12/1999<br>12/23/1999       | 2     | Tan, Fiber and Mineral Mixture | 10%                    | Chrysotile                 | 0% None Detected<br>Binder/Filler    |
| 34874<br>601              | 12/12/1999<br>12/23/1999       | 3     | Tan, Fibers, Woven             | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler |
| 602                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                   | -----                  | -----                      | -----<br>Binder/Filler               |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

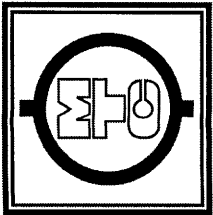
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, Inc.**  
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Job No.: 081563  
 Building No.: 19  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Community Arts Building  
 Date: 16-May-09

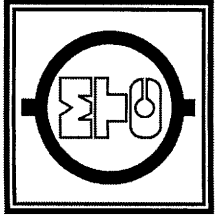
### Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                   | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material     |
|---------------------------|--------------------------------|-------|--------------------------------------|------------------------|----------------------------|----------------------------------|
| 603                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                         | -----                  | -----                      | Binder/Filler                    |
| 34875<br>801              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fibers Compressed Into Sheets  | 40%                    | Chrysotile<br>30%          | Cellulose Fiber<br>Binder/Filler |
| 34875<br>801              | 12/12/1999<br>12/23/1999       | 2     | Tan, Fibers Compressed Into Sheets   | 0%                     | None Detected<br>70%       | Cellulose Fiber<br>Binder/Filler |
| 34875<br>801              | 12/12/1999<br>12/23/1999       | 3     | Brown, Fibers Compressed Into Sheets | 0%                     | None Detected<br>70%       | Cellulose Fiber<br>Binder/Filler |
| 802                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                         | -----                  | -----                      | Binder/Filler                    |
| 803                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                         | -----                  | -----                      | Binder/Filler                    |
| 34876<br>901              | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture      | 10%                    | Chrysotile<br>30%          | Mineral Wool<br>Binder/Filler    |
| 34876<br>901              | 12/12/1999<br>12/23/1999       | 2     | Tan, Fibers, Woven                   | 0%                     | None Detected<br>75%       | Cellulose Fiber<br>Binder/Filler |
| 902                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                         | -----                  | -----                      | Binder/Filler                    |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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**Job No.:** 081563  
**Building No.:** 19  
**Project:** Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
**Building:** Community Arts Building  
**Date:** 16-May-09

## Polarized Light Microscopy Analysis Report

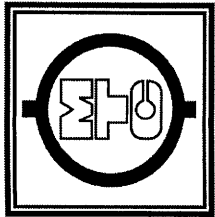
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos                                | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|---|------------------------------|
| 903                       | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                   | -----                  | -----   | Binder/Filler                |
| 34877<br>1001             | 12/12/1999<br>12/23/1999       | 1     | Grey, Mineral Mixture          | 0%                     | None Detected   | Binder/Filler                |
| 34878<br>1002             | 12/12/1999<br>12/23/1999       | 1     | Grey, Mineral Mixture          | 0%                     | None Detected   | Binder/Filler                |
| 34879<br>1003             | 12/12/1999<br>12/23/1999       | 1     | Grey, Mineral Mixture          | 0%                     | None Detected   | Binder/Filler                |
| 34880<br>1101             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected<br>30% Mineral Wool<br>2.5% Cellulose Fiber | Binder/Filler                |
| 34881<br>1201             | 12/12/1999<br>12/23/1999       | 1     | Black, Compressed, Tile        | 0%                     | None Detected   | Binder/Filler                |
| 34881<br>1201             | 12/12/1999<br>12/23/1999       | 2     | Yellow, Mastic                 | 0%                     | None Detected   | Binder/Filler                |
| 34882<br>1301             | 12/12/1999<br>12/23/1999       | 1     | Brown, Compressed, Tile        | 3%                     | Chrysotile  | Binder/Filler                |
| 34882<br>1301             | 12/12/1999<br>12/23/1999       | 2     | Black, Mastic                  | 0%                     | None Detected   | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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Job No.: 081563  
 Building No.: 19  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Community Arts Building  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

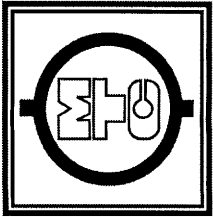
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos                       | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|--|------------------------------|
| 34883<br>1401             | 12/12/1999<br>12/23/1999       | 1     | Brown, Fiber and Filler Mixture | 0%                     | None Detected<br>Cellulose Fiber                 | Binder/Filler                |
| 34884<br>1501             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34885<br>1502             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34886<br>1503             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34887<br>1504             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34888<br>1505             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34889<br>1601             | 12/12/1999<br>12/23/1999       | 1     | Green, Compressed, Tile         | 5%                     | Chrysotile                                       | Binder/Filler                |
| 34889<br>1601             | 12/12/1999<br>12/23/1999       | 2     | Black, Mastic                   | 0%                     | None Detected                                    | Binder/Filler                |
| 34890<br>1701             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>Cellulose Fiber                 | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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 (616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
 Building No.: 19  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Community Arts Building  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

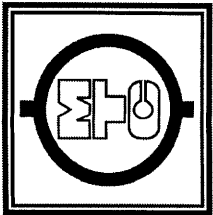
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material                             |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|----------------------------|--|
| 34890<br>1701             | 12/12/1999<br>12/23/1999       | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler                     |
| 34891<br>1702             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Cellulose Fiber<br>Binder/Filler                     |
| 34891<br>1702             | 12/12/1999<br>12/23/1999       | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler                     |
| 34892<br>1703             | 12/12/1999<br>12/23/1999       | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Cellulose Fiber<br>Binder/Filler                     |
| 34892<br>1703             | 12/12/1999<br>12/23/1999       | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 75% Cellulose Fiber<br>Binder/Filler                     |
| 34893<br>1801             | 12/12/1999<br>12/23/1999       | 1     | Red, Compressed, Tile              | 5%                     | Chrysotile                 | 0% None Detected<br>Binder/Filler                        |
| 34893<br>1801             | 12/12/1999<br>12/23/1999       | 2     | Yellow, Mastic                     | 0%                     | None Detected              | 3% Cellulose Fiber<br>Binder/Filler                      |
| 34893<br>1801             | 12/12/1999<br>12/23/1999       | 3     | Black, Mastic                      | 0%                     | None Detected              | 2% Cellulose Fiber<br>Binder/Filler                      |
| 34894<br>1901             | 12/12/1999<br>12/23/1999       | 1     | Tan, Fiber and Mineral Mixture     | 0%                     | None Detected              | 40% Mineral Wool<br>15% Cellulose Fiber<br>Binder/Filler |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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Job No.: 081563  
 Building No.: 19  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Community Arts Building  
 Date: 16-May-09

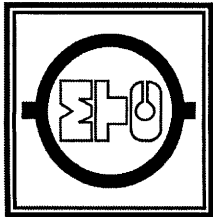
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos                       | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|--|------------------------------|
| 34895<br>1902             | 12/12/1999<br>12/23/1999       | 1     | Tan, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34896<br>1903             | 12/12/1999<br>12/23/1999       | 1     | Tan, Fiber and Filler Mixture  | 0%                     | None Detected<br>Mineral Wool<br>Cellulose Fiber | Binder/Filler                |
| 34897<br>2001             | 12/12/1999<br>12/23/1999       | 1     | Brown, Compressed, Vinyl Tile  | 0%                     | None Detected                                    | Binder/Filler                |
| 34897<br>2001             | 12/12/1999<br>12/23/1999       | 2     | Yellow, Mastic                 | 0%                     | None Detected                                    | Binder/Filler                |
| 34898<br>2101             | 12/12/1999<br>12/23/1999       | 1     | Tan, Fiber and Mineral Mixture | 15%                    | Chrysotile                                       | Binder/Filler                |
| 2102                      | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                   | -----                  | -----  | Binder/Filler                |
| 2103                      | 12/12/1999<br>12/23/1999       | 1     | Not Analyzed                   | -----                  | -----  | Binder/Filler                |
| 34899<br>2201             | 12/12/1999<br>12/23/1999       | 1     | Tan, Compressed, Tile          | 3%                     | Chrysotile                                       | Binder/Filler                |
| 34899<br>2201             | 12/12/1999<br>12/23/1999       | 2     | Black, Mastic                  | 0%                     | None Detected<br>Cellulose Fiber                 | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 19  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Community Arts Building  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

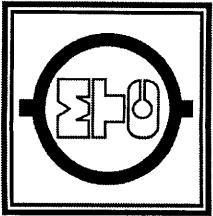
| Lab Number | Date Received | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|------------|---------------|-------|--------------------------------|------------------------|----------------------------|------------------------------|
| 34900      | 12/12/1999    | 1     | Black, Fibers and Tar Mixture  | 3%                     | Chrysotile                 | Cellulose Fiber              |
| 2301       | 12/23/1999    |       |                                |                        |                            |                              |
| 2601       | 4/9/2009      | 1     | Gray, Non-Fibrous, Homogeneous | 0%                     | None Detected              | None Detected                |
|            | 4/13/2009     |       |                                |                        |                            | 100% Non-Fibrous (other)     |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc.

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, Inc.**  
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Job No.: 081563  
Building No.: 23  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Exhibit Building  
Date: 16-May-09

### Polarized Light Microscopy Analysis Report

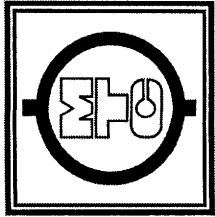
| Lab Number | Date Received | Layer | Sample Description    | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|------------|---------------|-------|-----------------------|------------------------|----------------------------|------------------------------|
| 34566      | 12/8/1999     | 1     | Grey, Mineral Mixture | 0%                     | None Detected              | Binder/Filler                |
| 101        | 12/15/1999    |       |                       |                        | Cellulose Fiber            |                              |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials Testing Consultants, INC.**  
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Job No.: 081563  
 Building No.: 24  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Poultry Building  
 Date: 16-May-09

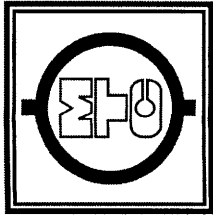
## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos                       | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|--|------------------------------|
| 34581<br>101              | 12/8/1999<br>12/15/1999        | 1     | Grey, Fiber and Filler Mixture | 0%                     | None Detected<br>Cellulose Fiber<br>Mineral Wool | Binder/Filler                |
| 34582<br>301              | 12/8/1999<br>12/15/1999        | 1     | Black, Compressed, Tile        | 3%                     | Chrysotile<br>None Detected                      | Binder/Filler                |
| 34582<br>301              | 12/8/1999<br>12/15/1999        | 2     | Black, Mastic                  | 0%                     | None Detected                                    | Binder/Filler                |
| 34583<br>401              | 12/8/1999<br>12/15/1999        | 1     | Black, Fibers and Tar Mixture  | 0%                     | None Detected<br>Fibrous Glass                   | Binder/Filler                |
| 501                       | 4/9/2009<br>4/11/2009          | 1     | Gray, Fibrous, Homogeneous     | 0%                     | None Detected<br>Cellulose                       | 100% Non-Fibrous (other)     |
| 502                       | 4/9/2009<br>4/11/2009          | 1     | Gray, Fibrous, Homogeneous     | 0%                     | None Detected<br>Cellulose                       | 100% Non-Fibrous (other)     |
| 503                       | 4/9/2009<br>4/11/2009          | 1     | Gray, Fibrous, Homogeneous     | 0%                     | None Detected<br>Cellulose                       | 95% Non-Fibrous (other)      |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc. **Reviewed By:** Christopher J. Kestner, C.I.E.



**Materials  
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(616) 456-5469 • FAX (616) 456-5784

Job No.: 081563  
Building No.: 25  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Milk House  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

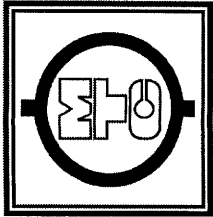
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description             | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material     |
|---------------------------|--------------------------------|-------|--------------------------------|------------------------|----------------------------|----------------------------------|
| 34578<br>101              | 12/7/1999<br>12/15/1999        | 1     | Grey, Fiber and Filler Mixture | 30%                    | Chrysotile<br>20%          | Cellulose Fiber<br>Binder/Filler |
| 34579<br>201              | 12/7/1999<br>12/15/1999        | 1     | Grey, Mineral Mixture          | 0%                     | None Detected<br>0%        | None Detected<br>Binder/Filler   |
| 34580<br>301              | 12/7/1999<br>12/15/1999        | 1     | Black, Fibers and Tar Mixture  | 0%                     | None Detected<br>30%       | Cellulose Fiber<br>Binder/Filler |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 26  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
Building: Red Brick Comfort Station  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

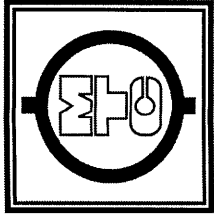
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description               | % and Type of Asbestos | % and Type of Non-Asbestos  | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|----------------------------------|------------------------|-----------------------------|------------------------------|
| 34570<br>101              | 12/8/1999<br>12/15/1999        | 1     | Grey, Mineral Mixture            | 0%                     | None Detected               | Binder/Filler                |
| 34571<br>201              | 12/8/1999<br>12/15/1999        | 1     | Black, Fiber and Mineral Mixture | 5%                     | Chrysotile<br>None Detected | Binder/Filler                |

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
 Building No.: 28  
 Project: Updated Survey of Asbestos and Limited Lead Based Paint for Michigan State Fairgrounds & Exhibition Center  
 Building: Restrooms (North)  
 Date: 16-May-09

## Polarized Light Microscopy Analysis Report

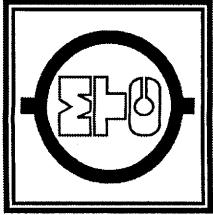
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description              | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material                       |
|---------------------------|--------------------------------|-------|---------------------------------|------------------------|----------------------------|--|
| 34593<br>101              | 12/7/1999<br>12/15/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>25%       | Mineral Wool<br>Binder/Filler                      |
| 34593<br>101              | 12/7/1999<br>12/15/1999        | 2     | Yellow, Fibers                  | 0%                     | None Detected<br>85%       | Fibrous Glass<br>Binder/Filler                     |
| 34593<br>101              | 12/7/1999<br>12/15/1999        | 3     | Tan, Fibers, Woven              | 0%                     | None Detected<br>75%       | Cellulose Fiber<br>Binder/Filler                   |
| 34594<br>102              | 12/7/1999<br>12/15/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>25%       | Mineral Wool<br>Binder/Filler                      |
| 34594<br>102              | 12/7/1999<br>12/15/1999        | 2     | Tan, Fibers, Woven              | 0%                     | None Detected<br>75%       | Cellulose Fiber<br>Binder/Filler                   |
| 34595<br>103              | 12/7/1999<br>12/15/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>25%       | Mineral Wool<br>Binder/Filler                      |
| 34595<br>103              | 12/7/1999<br>12/15/1999        | 2     | Tan, Fibers, Woven              | 0%                     | None Detected<br>75%       | Cellulose Fiber<br>Binder/Filler                   |
| 34596<br>301              | 12/7/1999<br>12/15/1999        | 1     | Blue, Fibers, Woven             | 0%                     | None Detected<br>60%<br>5% | Synthetic Fibers<br>Fibrous Glass<br>Binder/Filler |
| 34597<br>401              | 12/7/1999<br>12/15/1999        | 1     | Grey, Fiber and Mineral Mixture | 0%                     | None Detected<br>15%       | Fibrous Glass<br>Binder/Filler                     |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
 Limit of Detection: <1%  
 Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.F.



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Job No.: 081563  
Building No.: 28  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: Restrooms (North)  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

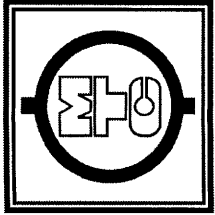
| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                 | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material         |
|---------------------------|--------------------------------|-------|------------------------------------|------------------------|----------------------------|--------------------------------------|
| 34597<br>401              | 12/7/1999<br>12/15/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34598<br>402              | 12/7/1999<br>12/15/1999        | 1     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Cellulose Fiber<br>Binder/Filler |
| 34598<br>402              | 12/7/1999<br>12/15/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34598<br>402              | 12/7/1999<br>12/15/1999        | 3     | Grey, Fiber and Mineral Mixture    | 0%                     | None Detected              | 15% Fibrous Glass<br>Binder/Filler   |
| 34599<br>403              | 12/7/1999<br>12/15/1999        | 1     | Grey, Mineral Mixture              | 0%                     | None Detected              | 0% None Detected<br>Binder/Filler    |
| 34599<br>403              | 12/7/1999<br>12/15/1999        | 2     | Tan, Fibers Compressed Into Sheets | 0%                     | None Detected              | 70% Cellulose Fiber<br>Binder/Filler |
| 34600<br>501              | 12/7/1999<br>12/15/1999        | 1     | Black, Fiber and Mineral Mixture   | 0%                     | None Detected              | 30% Cellulose Fiber<br>Binder/Filler |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 30  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: White Brick Comfort Station  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description                | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material   |
|---------------------------|--------------------------------|-------|-----------------------------------|------------------------|----------------------------|--------------------------------|
| 34568<br>101              | 12/8/1999<br>12/15/1999        | 1     | Black Fibers and Tar Mixture      | 0%                     | None Detected              | Cellulose Fiber                |
| 34569<br>201              | 12/8/1999<br>12/15/1999        | 1     | Silver, Fiber and Mineral Mixture | 3%                     | Chrysotile                 | None Detected<br>Binder/Filler |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

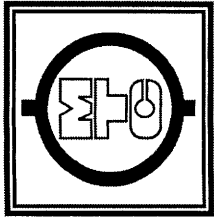
Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** Jeanine L. Samuelson

**Reviewed By:** Christopher J. Kestner, C.I.E.



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Job No.: 081563  
Building No.: 31  
Project: Updated Survey of Asbestos and Limited Lead Based Paint for  
Michigan State Fairgrounds & Exhibition Center  
Building: White Electrical Shack  
Date: 16-May-09

## Polarized Light Microscopy Analysis Report

| Lab Number<br>Client I.D. | Date Received<br>Analysis Date | Layer | Sample Description            | % and Type of Asbestos | % and Type of Non-Asbestos | Type of Non-Fibrous Material |
|---------------------------|--------------------------------|-------|-------------------------------|------------------------|----------------------------|------------------------------|
| 34567<br>101              | 12/8/1999<br>12/15/1999        | 1     | Black, Tar Mixture            | 3%<br>Chrysotile       | 0%<br>None Detected        | Binder/Filler                |
| 34567<br>101              | 12/8/1999<br>12/15/1999        | 2     | Black, Fibers and Tar Mixture | 0%<br>None Detected    | 30%<br>Cellulose Fiber     | Binder/Filler                |
| 201                       | 4/9/2009<br>4/11/2009          | 1     | Gray, Fibrous, Homogeneous    | 15%<br>Chrysotile      | 0%<br>None Detected        | 85% Non-Fibrous (other)      |

Analytical Method: US EPA, "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116; July, 1993

Percentages are visual estimates based on volume.  
Limit of Detection: <1%  
Not Detected (ND) indicated that no fibers in category were observed.

**Microscopist:** EMSL Analytical, Inc.

**Reviewed By:** Christopher J. Kestner, C.I.E.