



*Office of the
Director of Public Works/City Engineer
344 West Main Street
Marshall, MN 56258
507-537-6773
Fax: 507-537-6830*

***CITY OF
MARSHALL, MINNESOTA***

SPECIFICATION AND BIDDING DOCUMENTS

FOR

**REMOVAL OF
HAZARDOUS MATERIALS AND MISCELLANEOUS DEBRIS
FROM
MARSHALL HOTEL
LOCATED AT
326 WEST MAIN STREET
MARSHALL, MINNESOTA**

**Bids to be Received:
Tuesday, February 19, 2019
10:00 A.M.**

ADVERTISEMENT FOR BIDS

Marshall, Minnesota
January 24, 2019

TO WHOM IT MAY CONCERN:

The City of Marshall will receive bids in the Council Chambers of the Municipal Building at 10:00 a.m. on February 19, 2019, for the following project:

To remove and dispose of all hazardous building materials and miscellaneous debris within the Marshall Hotel located at 326 West Main Street in Marshall, Minnesota.

All bids shall be made on the proposal forms of the City and shall be accompanied by a cash deposit, cashier's check, bid bond or certified check payable to the order of the City Clerk for not less than 10 percent of the amount bid.

Bids shall be directed to the City Clerk, securely sealed and endorsed upon the outside wrapper with a brief statement or summary as to the work for which the bid is made.

The City Council reserves the right to reject all bids.

No bidder may withdraw his bid for at least 30 days after the scheduled closing time for the receipt of bids.

Plans and specifications are on file in the Office of the Director of Public Works/City Engineer, 344 West Main Street, Marshall, MN 56258; 507-537-6773. Copies of the specifications and bidding documents will be furnished on request to any prospective bidder.

The bids and the responsibility of the bidders will be considered by the City Council at 5:30 P.M. on Tuesday, February 26, 2019, in the Professional Development Room at the Marshall Middle School, 401 South Saratoga Street.

To view the interior of the property, please contact the Engineering Department at 507-537-6773, and arrangements will be made to allow access.

Dated this 24th day of January, 2019

Kyle J. Box
City Clerk

PROPOSAL

TO THE HONORABLE MAYOR AND THE
COMMON COUNCIL OF THE
CITY OF MARSHALL
LYON COUNTY, MINNESOTA

February 19, 2019

Ladies and Gentlemen:

The undersigned being familiar with all requirements and conditions, hereby proposes and agrees to enter into a contract with the City of Marshall to: REMOVE AND DISPOSE OF ALL HAZARDOUS BUILDING MATERIALS AND MISCELLANEOUS DEBRIS WITHIN THE MARSHALL HOTEL LOCATED AT 326 WEST MAIN STREET IN MARSHALL, MINNESOTA, in accordance with the specifications attached hereto for the following price, to wit:

BASE BID: \$ _____

The Contractor will be determined by the lowest responsible bid received.

The undersigned also agrees as follows:

1. Within fourteen (14) days after the contract is awarded, to execute the contract, and to furnish a satisfactory performance bond in the sum specified, guaranteeing the faithful performance of the work and payment of bills.
2. All hazardous building materials and miscellaneous debris within the Marshall Hotel must be removed and disposed of within sixty (60) days following Notice to Proceed.
3. That this proposal cannot be withdrawn within thirty (30) days after the scheduled time for receipt of bids.
4. That it is the understanding that the City may accept or reject all bids and waive any informalities in the biddings.
5. That said bidder has not entered into any agreement with any other bidder or proposed bidder or with any other person, firm or corporation, relating to the price named in said proposal or any other proposal, nor any agreement or arrangement under which any person, firm or corporation is to refrain from bidding, nor any agreement or arrangement for any act or omission in restraint of free competition among bidders.

Enclosed herewith find a certified check, cashier's check or bid bond in the amount of \$ _____ being at least 10% of the proposal made payable to the City of Marshall as a proposal guarantee which it is agreed by the undersigned will be forfeited in the event the form of contract is not executed, if awarded to the undersigned.

LIQUIDATED DAMAGES

Bidder hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" of the Owner and to fully complete the project within the time periods stipulated. Bidder further agrees to pay as liquidated damages, the sum of \$100.00 for each consecutive calendar day thereafter any section of the project is not completed.

ADDENDUM RECEIPTS

Receipt of the following addenda to the Specifications is acknowledged:

Addendum No. _____ dated _____

Addendum No. _____ dated _____

Addendum No. _____ dated _____

Addendum No. _____ dated _____

By: _____
(Signature)

Typed or Printed Name

Title

Mailing Address

City, State ZIP

Telephone Number (____) _____

State whether the Bidder is sole proprietor, a partnership or a corporation, and if a corporation, the state in which it is incorporated.

INSTRUCTIONS TO BIDDERS

I. SCOPE OF WORK

1. Provide all labor, materials, and equipment necessary for the removal and disposal of all hazardous building materials and miscellaneous debris within the Marshall Hotel located at 326 West Main Street in the City of Marshall, County of Lyon, State of Minnesota in accordance with federal, State and local regulations.
2. The Contractor shall furnish the necessary labor, equipment and material for the completion of the proper removal of all asbestos, proper removal of mercury, proper removal of PCB's, proper removal of CFC's, proper removal of household hazardous wastes, and transport demolition to a permanent MPCA permitted demolition landfill in an approved manner according to all federal, state, county and local regulations. All miscellaneous debris must be disposed of at a location and manner acceptable to State and local regulations. Contractor shall secure all proper permits prior to demolition and shall contact MPCA and MDH ten (10) days prior to removal of all asbestos and any other hazardous materials from the structure. The hazardous materials identified at the site are generally described in the report attached to this RFP.

II. LOCATION

The structure is located at 326 West Main Street in Marshall, Minnesota, previously known as the Marshall Hotel.

III. GENERAL SPECIFICATIONS & INFORMATION

1. The Contractor shall be paid the lump sum price for removal and disposal of all hazardous building materials and miscellaneous debris at the site as indicated in the proposal and as approved by the owner or owner's representative, and this payment will be full compensation for the removal and disposal. The Contractor shall pay for all charges, levies, fees, permits and other expenses necessary to complete the work in accordance with the plans and specifications.
2. The contractor shall obtain all necessary permits from City, Lyon County and Minnesota Pollution Control Agency in conjunction with the removal and disposal of all hazardous building materials and miscellaneous debris at the site.
3. The contractor shall comply with applicable air pollution control requirements of the city, county, and state (Section 1717 of the Mn/DOT Standard Specifications for Construction) concerning the removal of the hazardous materials from the site.
4. No fires of any kind will be permitted in the demolition work area.

5. Contractor shall provide certificates of insurance to the Owner of adequate coverage consistent with the type of demolition work being completed on this project. The Owner shall be named as an additional insured on the certificate.
6. Public rights-of-ways or parking lots utilized for demolition dumpsters or related equipment shall be by permit only.
7. See attached drawing for the site location.



W LYON ST

N FOURTH ST

N THIRD ST

MARSHALL HOTEL

W MAIN ST

Asbestos Inspection Report

City Of Marshall
Attn: Glenn Olson
344 W. Main Street
Marshall, MN 56258



**Advanced Health,
Safety and Security**

P.O. Box 437, 105 3rd Street, Balaton, MN 56115

Cost-Effective Solutions



Client: Glenn Olson
Report of: Asbestos Inspection
Location: 110 W. Main Street, Marshall, MN 56258

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Project No: Marshall Hotel
Date: 11/05/2018

November 12, 2018

City of Marshall
Attn: Glenn Olson
344 W Main Street
Marshall, MN 56258

Introduction

This report presents the results of the hazardous material survey conducted by Brian Parrie at 318 W Main Street, Marshall, MN 56258. The survey was requested Glenn Olson.

Methodology

The building(s) were visually inspected to identify building materials that might contain asbestos or other hazardous materials. Bulk samples were collected from suspect materials and analyzed to determine if they contained asbestos. All asbestos containing materials (ACMs) will be listed and identified in table 1 of this report. Destructive sampling methods were used to obtain proper sampling.

Purpose

The purpose of this survey was to identify the existence, extent, and condition of hazardous materials including both friable and non-friable asbestos-containing materials (ACM). Bulk samples were collected from suspect materials, submitted to a laboratory, and analyzed for asbestos.



Client: Glenn Olson
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Sample Data

The following table lists all samples tested for asbestos. Recommended response actions can be found in this report:

Functional Space Number	Description	Sq. or Lineal Ft.	Sample Number	Type of Material	Type of Asbestos	%
Ceiling	Layer 1	N/A	1001	12x12 Tan Ceiling Tile	N/D	0
Ceiling	Layer 2	365	1001	White Ceiling Texture	Chrysotile	3
Yellow Vinyl Front N	Layer 1	201	1002	White/Yellow Vinyl	Chrysotile	15
Yellow Vinyl Front N	Layer 2	N/A	1002	Yellow Adhesive	N/D	0
Bathroom Vinyl Front S	Layer 1	35	1003	Tan/White Vinyl	Chrysotile	20
Utility Room S Vinyl	Layer 1	35	1004	Tan /White Vinyl	Chrysotile	20
Hall Paneling Glue	Layer 1	2240	1005	Black Paneling Glue	Chrysotile	6
Ceiling Plaster	Layer 1	N/A	1006	Gray Ceiling Plaster	N/D	0
Ceiling Plaster	Layer 2	N/A	1006	Tan Skim Coat	N/D	0
Bathroom/Commons Brown Vinyl	Layer 1	289	1007	Brown/White Vinyl	Chrysotile	20
Bathroom/Commons Brown Vinyl	Layer 2	N/A	1007	Tan Mastic	N/D	0
9x9 Floor Tile Back N	Layer 1	511	1008	Black 9x9 Floor Tile under carpet	Chrysotile	8



Client: Glenn Olson
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9x9 Floor Tile Back N	Layer 2	511	1008	Black Mastic	Chrysotile	10
9x9 Floor Tile Back N	Layer 2	N/A	1008	Tan Mastic	N/D	0
9x9 Floor Tile Back N	Layer 3	N/A	1008	Gray Filler	N/D	0
9x9 Floor Tile N	Layer 1	511	1009	Brown Floor Tile under carpet	Chrysotile	8
9x9 Floor Tile N	Layer 2	N/A	1009	Black Felt	N/D	0
9x9 Green Floor Tile Hall	Layer 1	N/A	1010	9x9 Green Floor Tile	N/D	0
9x9 Green Floor Tile Hall	Layer 2	N/A	1010	Black Felt	N/D	0
Hall Transit	Layer 1	150	1011	Gray/White Transite under carpet	Chrysotile	20
Wall Plaster	Layer 1	N/A	1012	Gray Wall Plaster	N/D	0
Wall Plaster	Layer 2	N/A	1012	Tan Layer	N/D	0
12x12 Floor Tile S	Layer 1	878	1013	Gray 12x12 Floor Tile	Chrysotile	4
12x12 Floor Tile S	Layer 2	N/A	1013	Tan Mastic	N/D	0
Ceiling Plaster	Layer 1	N/A	1014	Gray Ceiling Plaster	N/D	0
Ceiling Plaster	Layer 2	N/A	1014	Tan Skim Coat	N/D	0
9x9 Tan Floor Tile S	Layer 1	884	1015	Tan floor Tile	Chrysotile	8
9x9 Tan Floor Tile S	Layer 2	884	1015	Black Mastic	Chrysotile	10
9x9 Tan Floor Tile S	Layer 3	N/A	1015	Tan Mastic	N/D	0
9x9 Tan Floor Tile S	Layer 4	N/A	1015	Brown Layer	N/D	0
9x9 Black Checker Floor Tile S	Layer 1	N/A	1016	9x9 Black Checker Floor Tile	N/D	0



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9x9 Black Checker Floor Tile S	Layer 2	N/A	1016	Tan Mastic	N/D	0
9x9 White Checker Floor Tile S	Layer 1	N/A	1017	White Layer	N/D	0
9x9 White Checker Floor Tile S	Layer 2	N/A	1017	Black Layer	N/D	0
9x9 White Checker Floor Tile S	Layer 3	N/A	1017	Tan Mastic	N/D	0
Bathroom Tan Vinyl	Layer 1	N/A	2001	Tan Vinyl	N/D	0
Bathroom Tan Vinyl	Layer 2	N/A	2001	Yellow Adhesive	N/D	0
Ceiling Texture	Layer 1	N/A	2002	Tan/White Ceiling Texture	N/D	0
Wall Plaster	Layer 1	N/A	2003	Gray Wall Plaster	N/D	0
Wall Plaster	Layer 2	N/A	2003	White Skim Coat	N/D	0
Hall Flooring	Layer 1	N/A	2004	Brown/Tan Flooring	N/D	0
Hall Floor Under Layment	Layer 1	N/A	2005	Gray Layer	N/D	0
Ceiling Texture/Plaster	Layer 1	N/A	2006	Gray Plaster	N/D	0
Ceiling Texture/Plaster	Layer 2	N/A	2006	White Skim Coat	N/D	0
Bathroom Vinyl Flooring	Layer 1	62	2007	Tan/White Vinyl Flooring Bot Apt.	Chrysotile	15
Bathroom Vinyl	Layer 2	N/A	2007	Yellow Adhesive	N/D	0
HVAC Tape	Layer 1	20	2008	White HVAC Tape Bot Apt.	Chrysotile	60
Kitchen Vinyl	Layer 1	91	2009	Tan/White Kitchen Vinyl Bot Apt.	Chrysotile	10



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Kitchen Vinyl	Layer 2	N/A	2009	Tan/Yellow Adhesive	N/D	0
Window Glazing	Layer 1	100 window	2010	White Window Glazing	Chrysotile	5
2nd Floor Brown Vinyl Flooring	Layer 1	240	2011	Tan/White Vinyl Flooring Rm 209-210, Rm across from 211, and B2	Chrysotile	15
Brown Vinyl Flooring	Layer 2	N/A	2011	Yellow Adhesive	N/D	0
Wall Plaster	Layer 1	N/A	2012	Gray Wall Plaster	N/D	0
Ceiling Plaster	Layer 1	N/A	2013	Gray Ceiling Plaster	N/D	0
Ceiling Plaster	Layer 2	N/A	2013	Tan Skim Coat	N/D	0
Ceiling Plaster/Texture	Layer 1	N/A	3001	Gray Ceiling Plaster/Texture	N/A	0
Ceiling Plaster/Texture	Layer 2	N/A	3001	Tan Texture	N/A	0
Transite Siding	Layer 1	1552	3002	Gray/White Transite Siding	Chrysotile	25
Vent Tar	Layer 1	15	3003	Black Vent Tar	Chrysotile	10
Kitchen Vinyl Rm 320	Layer 1	102	3004	Tan/White Kitchen Vinyl	Chrysotile	20
Kitchen Vinyl	Layer 2	N/A	3004	Yellow Adhesive	N/D	0
Ceiling Plaster	Layer 1	N/A	3005	Gray Ceiling Plaster	N/D	0
Pipe wrap and Tank basement	Layer 1	750	4001	Tan Pipe wrap boiler tank, hot water tank, wrap going up wall South	Chrysotile	50
Joints	Layer 1	30	4002	White Joints	Chrysotile	75
Basement Ceiling	Layer 1	N/A	4003	Gray Plaster	N/D	0
Basement Ceiling	Layer 2	N/A	4003	Tan Skim Coat	N/D	0
Basement Wall	Layer 1	N/A	4004	Gray Wall	N/D	0



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(PC) indicates Stratified Point Count Method performed

Results

The results of the samples tested for asbestos are found in Appendix A of this report.

Positive Material Containing Asbestos Include:

- Sample 1001 – Non-Friable ceiling texture containing 3% Chrysotile.
- Sample 1002 – Non-Friable yellow/white vinyl front N containing 15% Chrysotile.
- Sample 1003 – Non-Friable tan/ white bathroom vinyl front S containing 20% Chrysotile.
- Sample 1004 – Non-Friable tan/white utility room vinyl S containing 20% Chrysotile.
- Sample 1005 – Non-Friable Black hall paneling glue containing 6% Chrysotile.
- Sample 1007 – Non-Friable brown/white bathroom/common vinyl containing 20% Chrysotile.
- Sample 1008 – Non-Friable black 9x9 floor tile back N containing 8% Chrysotile.
- Sample 1008 – Non-Friable black mastic containing 10% Chrysotile.
- Sample 1009 – Non-Friable brown 9x9 floor tile N containing 6% Chrysotile.
- Sample 1010 – Non-Friable gray/White hall transite containing 20% Chrysotile.
- Sample 1013 – Non-Friable gray 12x12 floor tile S containing 4% Chrysotile.
- Sample 1015 – Non-Friable 9x9 tan floor tile S containing 8% Chrysotile.
- Sample 1015 – Non-Friable black mastic containing 10% Chrysotile.
- Sample 2007 – Non-Friable tan/white bathroom vinyl containing 15% Chrysotile.
- Sample 2008 – Non-Friable white HVAC tape containing 60% Chrysotile.
- Sample 2009 – Non-Friable tan/white kitchen vinyl containing 10% Chrysotile.
- Sample 2010 – Non-Friable white window glazing containing 5% Chrysotile.
- Sample 2011 – Non-Friable brown vinyl containing 15% Chrysotile.
- Sample 3002 – Non-Friable gray/white transite siding containing 25% Chrysotile.
- Sample 3003 – Non-Friable black vent tar containing 10% Chrysotile.
- Sample 3004 – Non-Friable tan/white kitchen vinyl containing 20% Chrysotile.
- Sample 4001 – Non-Friable tan pipe wrap and tanks containing 50% Chrysotile.
- Sample 4002 – Non-Friable white joints containing 75% Chrysotile.

All asbestos samples that tested positive contain more than 1 % asbestos according to methods specific to appendix A, subpart F. 40 CFR part 763 section1 and are considered Asbestos Containing. The ACM that contains must be removed and brought to an approved asbestos dump site.



Client: Glenn Olson
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Discussion

All asbestos containing material should be removed prior to demolition.
All non-demolition debris and hazardous waste should be removed before demolition.
The attached MPCA pre-demolition check list is attached for reference.

Please find attached:

- Bulk sample lab results



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Remarks

The environmental services performed by Advanced Health, Safety and Security for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints.

Recommendations contained in this report represent my professional judgment at the time of inspection.

Please note this note this is a complete asbestos assessment of the property. It is not a complete hazardous material assessment. I did not perform destructive sampling of the building.

This concludes this report. Any questions regarding the fieldwork, sample results or presented findings should be directed to Brian Parrie, at 507-763, 605-430-8842 or email Brianparrie@hotmail.com.

Brian Parrie
Advanced Health, Safety and Security

Certified Asbestos Inspector AI11154
Certified Asbestos Supervisor A11154
Certified Asbestos Management Planner AM11154
Certified Asbestos Project Designer AD11154
Asbestos Contractor License AC7984
Certified Mold Premediator CMR0000025812



EMSL Analytical, Inc.

14375 23rd Avenue North Minneapolis, Mn 55447
Tel/Fax: (763) 449-4922 / (763) 449-4924
<http://www.EMSL.com/minneapolislab@emsl.com>

EMSL Order: 351808858
Customer ID: AHSS42
Customer PO:
Project ID:

Attention: Brian Parrie
Advanced Health, Safety & Security
PO Box 437
Balaton, MN 56115
Phone: (605) 430-8842
Fax:
Received Date: 11/08/2018 9:15 AM
Analysis Date: 11/11/2018 - 11/12/2018
Collected Date: 11/05/2018
Project: Marshall Hotel

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1001-Ceiling Tile <i>351808858-0001</i>	Ceiling tile	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
1001-Texture <i>351808858-0001A</i>	Ceiling tile	White Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
1002-Vinyl Flooring <i>351808858-0002</i>	Yellow vinyl front N	White/Yellow Fibrous Heterogeneous	15% Cellulose	70% Non-fibrous (Other)	15% Chrysotile
1002-Adhesive <i>351808858-0002A</i>	Yellow vinyl front N	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1003 <i>351808858-0003</i>	Bathroom front south vinyl	Tan/White Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (Other)	20% Chrysotile
1004 <i>351808858-0004</i>	Utility Room South Vinyl	Tan/White Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (Other)	20% Chrysotile
1005 <i>351808858-0005</i>	Paneling glue Hall	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
1006-Plaster <i>351808858-0006</i>	Ceiling Plaster	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1006-Skim Coat <i>351808858-0006A</i>	Ceiling Plaster	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1007-Vinyl Flooring <i>351808858-0007</i>	Brown Vinyl Bathroom/ commons	Brown/White Fibrous Heterogeneous	15% Cellulose	65% Non-fibrous (Other)	20% Chrysotile
1007-Tan Mastic <i>351808858-0007A</i>	Brown Vinyl Bathroom/ commons	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1008-Floor Tile <i>351808858-0008</i>	9x9 floor tile Back N	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
1008-Black Mastic <i>351808858-0008A</i>	9x9 floor tile Back N	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
1008-Tan Mastic <i>351808858-0008B</i>	9x9 floor tile Back N	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1008-Filler <i>351808858-0008C</i>	9x9 floor tile Back N	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1009-Floor Tile <i>351808858-0009</i>	9x9 floor tile N	Brown Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile

Initial report from: 11/12/2018 12:58:30



EMSL Analytical, Inc.

14375 23rd Avenue North Minneapolis, Mn 55447
Tel/Fax: (763) 449-4922 / (763) 449-4924
<http://www.EMSL.com/minneapolislab@emsl.com>

EMSL Order: 351808858
Customer ID: AHSS42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1009-Felt <small>351808858-0009A</small>	9x9 floor tile N	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
1010-Floor Tile <small>351808858-0010</small>	9x9 green tile Hall	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1010-Felt <small>351808858-0010A</small>	9x9 green tile Hall	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
1011 <small>351808858-0011</small>	Transite Hall	Gray/White Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
1012-Plaster <small>351808858-0012</small>	Wall Plaster	Gray Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1012-Tan Fibrous Layer <small>351808858-0012A</small>	Wall Plaster	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
1013-Floor Tile <small>351808858-0013</small>	12x12 Floor tile S	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
1013-Tan Mastic <small>351808858-0013A</small>	12x12 Floor tile S	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1014-Plaster <small>351808858-0014</small>	Ceiling Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1014-Skim Coat <small>351808858-0014A</small>	Ceiling Plaster	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1015-Floor Tile <small>351808858-0015</small>	9x9 Tan S	Tan Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
1015-Black Mastic <small>351808858-0015A</small>	9x9 Tan S	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
1015-Tan Mastic <small>351808858-0015B</small>	9x9 Tan S	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1015-Brown Fibrous Layer <small>351808858-0015C</small>	9x9 Tan S	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
1016-Floor Tile <small>351808858-0016</small>	9x9 Black Checker S	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1016-Tan Mastic <small>351808858-0016A</small>	9x9 Black Checker S	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1017-White Layer <small>351808858-0017</small>	9x9 White Checker S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1017-Black Layer <small>351808858-0017A</small>	9x9 White Checker S	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 11/12/2018 12:58:30



EMSL Analytical, Inc.

14375 23rd Avenue North Minneapolis, Mn 55447
Tel/Fax: (763) 449-4922 / (763) 449-4924
<http://www.EMSL.com / minneapolislab@emsl.com>

EMSL Order: 351808858
Customer ID: AHSS42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1017-Tan Mastic <i>351808858-0017B</i>	9x9 White Checker S	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2001-Vinyl Flooring <i>351808858-0018</i>	Bathroom vinyl Tan	Tan Fibrous Heterogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
2001-Adhesive <i>351808858-0018A</i>	Bathroom vinyl Tan	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2002 <i>351808858-0019</i>	Ceiling texture	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2003-Plaster <i>351808858-0020</i>	wall Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected
2003-Skim Coat <i>351808858-0020A</i>	wall Plaster	White Non-Fibrous Homogeneous	4% Fibrous (Other)	96% Non-fibrous (Other)	None Detected
2004 <i>351808858-0021</i>	Hall Flooring	Brown/Tan Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
2005 <i>351808858-0022</i>	Hall Floor under layment	Gray Fibrous Homogeneous	90% Cellulose 8% Synthetic	2% Non-fibrous (Other)	None Detected
2006-Plaster <i>351808858-0023</i>	Ceiling texture/ Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected
2006-Skim Coat <i>351808858-0023A</i>	Ceiling texture/ Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2007-Vinyl Flooring <i>351808858-0024</i>	Bathroom vinyl	Tan/White Fibrous Heterogeneous	15% Cellulose	70% Non-fibrous (Other)	15% Chrysotile
2007-Adhesive <i>351808858-0024A</i>	Bathroom vinyl	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2008 <i>351808858-0025</i>	HVAC Tape	White Fibrous Homogeneous	30% Cellulose	10% Non-fibrous (Other)	60% Chrysotile
2009-Vinyl Flooring <i>351808858-0026</i>	Kitchen Vinyl	Tan/White Fibrous Heterogeneous	20% Cellulose	70% Non-fibrous (Other)	10% Chrysotile
2009-Adhesive <i>351808858-0026A</i>	Kitchen Vinyl	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2010 <i>351808858-0027</i>	Window glazing	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2011-Vinyl Flooring <i>351808858-0028</i>	Floor vinyl Brown	Tan/White Fibrous Heterogeneous	10% Cellulose	75% Non-fibrous (Other)	15% Chrysotile
2011-Adhesive <i>351808858-0028A</i>	Floor vinyl Brown	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2012 <i>351808858-0029</i>	wall Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 351808858
Customer ID: AHSS42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2013-Plaster <i>351808858-0030</i>	Ceiling Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2013-Skim Coat <i>351808858-0030A</i>	Ceiling Plaster	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3001-Plaster <i>351808858-0031</i>	Ceiling Plaster/ Texture	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3001-Texture <i>351808858-0031A</i>	Ceiling Plaster/ Texture	Tan Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
3002 <i>351808858-0032</i>	Transite Siding	Gray/White Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
3003 <i>351808858-0033</i>	Vent tar	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
3004-Vinyl Flooring <i>351808858-0034</i>	Kitchen vinyl	Tan/White Fibrous Heterogeneous	15% Cellulose	65% Non-fibrous (Other)	20% Chrysotile
3004-Adhesive <i>351808858-0034A</i>	Kitchen vinyl	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3005 <i>351808858-0035</i>	Ceiling Plaster	Gray Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4001 <i>351808858-0036</i>	Pipewrap	Tan Fibrous Homogeneous	20% Cellulose	30% Non-fibrous (Other)	50% Chrysotile
4002 <i>351808858-0037</i>	Joints	White Fibrous Homogeneous	10% Cellulose	15% Non-fibrous (Other)	75% Chrysotile
4003-Plaster <i>351808858-0038</i>	Basement Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4003-Skim Coat <i>351808858-0038A</i>	Basement Ceiling	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4004 <i>351808858-0039</i>	Basement wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Daniel Nordland (67)

Rachel Travis, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

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