

ASBESTOS INSPECTION REPORT

INSPECTION ADDRESS:
Blum Properties, West Buildings
Corner of Elm and 15th St.
Dubuque, IA 52001
Project #: Z21857W



SUBMITTED TO:
HR Green
8710 Earhart Lane SW
Cedar Rapids, IA 52404
Attn: Emily Smart

Prepared by:



Travis J. Haas, Inspector

Date

10/18/16

16-5764

Inspector #

1/8/17

License Expiration date

Advanced Environmental Testing and Abatement

803 Ricker Street
Waterloo, Iowa 50703

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SECTION 1

INTRODUCTION

For each area of the building, the inspector performing the inspection did the following:

1. Visually inspected the area(s) to identify the locations of all suspect Asbestos Containing Building Materials.
2. Identify all homogeneous areas of friable and non-friable suspected asbestos.
3. Assume, if necessary, that some or all of the homogeneous area(s) are Asbestos Containing Material (ACM), and for each homogeneous area that is not assumed to be ACM, collect and submit bulk samples for analysis.

SECTION 2

DEFINITIONS:

HOMOGENEOUS AREA

An area which appears similar throughout in terms of color, texture, and date of material application.

SURFACING MATERIAL

Material in a building that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

THERMAL SYSTEM INSULATION

Means material applied to pipes, fittings, boilers breeching, tanks ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or other purposes.

MISCELLANEOUS MATERIAL

Interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

SAMPLING AND ANALYSIS

All samples to be analyzed by Polarized Light Microscopy (PLM). Analysis was performed in accordance with EPA 40 CFR, Part 763, Appendix A to Subpart F.

A homogeneous area was considered not to contain Asbestos Containing Material (ACM) only if the results of all samples collected from the area showed asbestos in the amounts of one (1) percent (%) or less (≤1%). A homogeneous area contains ACM when one or more samples collected from that area shows greater than one (1) percent (%) asbestos (>1%).

FRIABLE

Any material containing more than one (1) percent (%) asbestos that, when dry can be crumbled, pulverized, or reduced to a powder by hand pressure.

NON-FRIABLE (CATEGORY I)

Asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products, containing more than one (1) percent (%) asbestos.

NON-FRIABLE (CATEGORY II)

Any excluding Non-Friable (Category I) Asbestos Containing Material, containing more than one (1) percent (%) asbestos.

General Building Inspection Observations

The building inspection is conducted by a qualified and State of Iowa licensed Asbestos Inspector. The purpose of a building inspection is to identify existing building materials that are asbestos containing materials (ACM). If the inspection is conducted in an occupied building, the Inspector is sometimes denied accessibility to building areas and materials; i.e., the Inspector may not be allowed to cut through floor coverings or walls, remove quarry tiles, etc. There are many situations where ACM are concealed in wall cavities and other non-accessible areas, such as tunnels, crawl spaces, above ceilings, pipe chases, behind wall coverings, beneath debris piles, under various floor coverings, etc. When these situations occur in construction, renovation, and/or demolition, etc., materials in these areas shall be treated as ACM and handled as such by qualified and licensed asbestos personnel. If suspect asbestos containing material is discovered or damaged during the course of any activities, the material shall be considered and treated as ACM to diminish further fiber release. In addition, the Inspector uses an independent laboratory that analyzes the bulk building material samples using Polarized Light Microscopy (PLM). PLM analysis technique may not be as accurate as more expensive analysis techniques for certain building materials. It remains the Building Owner and/or Representative(s)' responsibility to address this issue and consider analyzing suspect building material using different analysis techniques prior to disturbing the material(s). The following are areas that may not be inspected.

1. **Tunnels and Crawl Spaces:** During the inspection process, the Inspector attempts to check tunnels and crawl spaces for ACM and the degree of damage to the materials. In most cases, quantification of ACM in these areas is impossible due to the inaccessibility to these areas. In addition, these areas may fall under: "Confined Space Regulations". Due to the congestion in tunnels and crawl spaces, obtaining an accurate quantification for mudded joints, pipe wrap, etc. is almost impossible. The Inspector will quantify ACM only in accessible tunnels and crawl spaces, and estimate the quantities in the inaccessible areas. Some reasons for inaccessibility are as follows: flooded areas, pipe congestion, asbestos and other debris, electrical hazards, confined spaces, unknown gas emissions, low ceilings, etc.
2. **Boilers and Thermal System Insulation:** Interior portions of boilers, heaters, storage tanks, etc. are not always accessible. Materials in these areas will be treated as ACM. Areas of concern are packing inside boiler doors and liners. Use extreme care and properly trained personnel when handling these types of materials. Some boilers have insulated metal jackets over fiberglass or ACM. Thermal system insulation can be found in many different forms; i.e., air cell, preformed magnesium block, millboard, etc. All fiberglass materials are excluded as suspect ACM.

3. Advanced Environmental Testing and Abatement, Inc. in general did not conduct destructive samples. Example include behind finished surfaces (plaster, drywall, paneling, hard pan ceilings) inside mechanical chases, under ceramic tile, or any area inaccessible. Any and all material not listed on the sample inventory list are assumed positive unless tested.
4. **Electrical systems:** Samples of electrical systems should be assumed positive unless listed on the sample inventory list. Sampling will be completed if power is off and the system does not present a hazard to the inspector.
5. **Debris:** In areas where damaged ACM may be found there may and usually will be ACM debris in the general area of the damaged material. These areas shall be treated with the utmost care even during the inspection and quantification process. The Inspector considers any exposure to this type of material as a health threat.
6. **State of Quantification:** As a general rule, individual rooms or areas of estimation contain inherently more probability of an error than those groups of rooms or areas or an entire building. In other words, the aggregate tends to be more accurate than the sums of the individual parts. Therefore, when designing response actions (measurements, air samples, etc.), the project designer and the asbestos abatement contractor's attention shall be given to ensure that quantification of materials and proper methods are followed through careful analysis of the site. If materials are quantified, the asbestos abatement contractor or owner, owner representatives or third parties are responsible for verifying the quantities.
7. **The Inspector** may take some latitude in the presentation of the Inspection Report. When the Inspector has found floor tiles, linoleum, and/or carpeting listed he/she may or may not have adhesives listed. Adhesives have been known to contain asbestos and therefore, although not mentioned, it may be presumed to be ACM, listed or not. Testing of the adhesive prior to disturbing is recommended. The same is true for adhesives or mastics used to adhere linoleum to floors or counter tops. All toweled-on and/or sprayed-on surfacing materials; i.e., floor mastics, wall and ceiling surfacings, etc. are either suspected or presumed ACM unless sampled and analyzed to indicate that they are not ACM.
8. **In the Inspection Report**, certain items such as mudded joints (MJ) or metal doors (MD), etc. are listed as units or number of units; i.e. 10 MJ, 3 Damaged, which is an indication of count rather than square feet or linear feet. Most materials listed in the assessment are either listed as square feet or linear feet with these noted exceptions.
9. **In the Assessment Process**, there are additional codes such as ME and MG; ME representing miscellaneous electrical and MG representing miscellaneous gasket materials. Both of these codes are used to indicate materials that are unusual to the normal course of an assessment of the building. Miscellaneous electrical materials include old electrical wiring, switchboards, transite panels, etc. Miscellaneous gasket materials can be found between (thermal) valves, on boiler doors, between fittings, between molds, etc. These codes give the Inspector the ability to qualify materials, which sometimes may not be considered as ACM.

10. **An Asbestos Code Sheet** is included with the Inspector's inspection report, which informs the client as to the Homogeneous Codes used during the inspection process.
11. **Caution-** Regarding Inspection results- Floor tiles, adhesives, and drywall (mud) found to not contain asbestos should be re-analyzed under the "Chatfield Method" of TEM analysis. Many times the results from having these materials analyzed under PLM results in false positives or false negatives. After reviewing your report, please notify the inspector if you want these samples analyzed under the "Chatfield Method".
12. Any sample less than 10% asbestos may be Point Counted. Point counting is a more accurate method of analyzing of bulk samples. The results of the point counting are the results that will determine if the material will be treated as asbestos.
13. Asbestos inspections are performed based on current understanding of the regulations. As new interpretations of the regulations are made aware of by the EPA, DNR or IOSHA, Advanced Environmental Testing and Abatement Inc. will adapt their inspections to comply with these new procedures. If additional sampling is required by the different agencies, Advanced Environmental will do the additional sampling. The owner is responsible for the additional cost for these samples as well as labor.
14. Advanced Environmental Testing and Abatement, Inc. shall not be responsible for any cost of abating any additional asbestos discovered in any renovation or demolition activities. Any additional items discovered shall be tested when they become accessible. For example, old adhesive may be under new floor tiles and adhesive. Additional materials may be concealed in walls, under multi layers of flooring, etc.
15. All amounts listed are estimates. It is up to other contractors to field verify any amounts that are listed within this report.
16. All material that looks similar should be treated as asbestos containing materials.
17. Asbestos Material containing <1%. Some material tested for asbestos may contain trace amounts of asbestos and be below the threshold for asbestos contain material according to both the Iowa Department of Natural Resources and the Iowa Division of Labor. However, both the State of Iowa Division of Labor (Occupational Safety and Health Administration) and the Federal Occupational Safety and Health Administration still have some regulations that contractors must follow under 29 CFR 1926.1101. Contractors working with asbestos material with <1% asbestos must still produce a negative and initial exposure assessment, completed by a "competent person". Contractors must follow 29 CFR 1926. 1101 (g)(1)(ii) and (iii) and 29 CFR 1926. 1101(g)(3)(i), (ii), and (iv). Please contact Advanced Environmental Testing and Abatement, Inc. for consultation on how to handle material with <1% asbestos.
18. Flat roofs: If any layer of a flat roof tests positive for asbestos, all layers should be considered asbestos and removed as such. Advanced Environmental Testing and Abatement, Inc. makes every effort to core roof samples through all layers.

ASBESTOS CODES

A = Assumed	MJ = Mudded Joint
ADH = Adhesive	NC = Nose Cap
APW = Air Cell Pipe Wrap	NF = Non Friable
BP = Boiler Plaster	NSM = Not Suspect Material
C = Ceiling	P or PH = Previous History
CAPS = Stair Treads	PP = Patched Plaster/Drywall
CQ = Can't Quantify	PSA = Sand Plaster
CT = Ceiling Tiles	PSM = Smooth Plaster
CT/12 = 12" Ceiling Tiles	S = Sample/Samples/Sampled
DAM. = Damaged	SCT = Suspended Ceiling Tile
DEB = Debris	SR = Sample Result
DW = Drywall	ST = Storage Tank
F = Friable	SUR = Surfacing
FE = Furnace Exhaust	T = Thermal
FT = Floor Tiles	Thermal Pipe Measurement = Linear Feet
GASK = Gaskets	TR = Transite
GYM = Gypsum	TSI = Thermal System Insulation
HOMO = Homogeneous	VC = Vibration Cloth
LINO = Linoleum	VDW = Vinyl Covered Drywall
MISC = Miscellaneous Non Friable	W = Walls
MAC = Metal Asbestos Chimney	WD = Wood Door
MATL DESC = Material Description	N = North
MD = Metal Door	S = South
ME = Miscellaneous Electrical	E = East
MF = Miscellaneous Friable	W = West

1. All Metal Doors are listed by quantities, example 3 = 3 metal doors.
2. All Mudded Joints are listed by quantities of MJ, not sizes.
3. All Pipe Wrap materials are listed in linear feet.
4. All other measurements are square feet unless stated elsewhere.
5. Sample Results:
 - N = Not Considered Asbestos Containing Material
 - Y = Considered Asbestos Containing Material
 - P or PH = Previous History
 - N/A = Not Analyzed
 - <1% = Contains less than 1% Asbestos Containing Material
 - >1% = Contains more than 1% Asbestos Containing Material
6. All Adhesives are considered Asbestos Containing Material (ACM) which can't be quantified - Non Friable ACM.
7. All Seals and Gaskets are considered Asbestos Containing Material (ACM) which can't be quantified – Non Friable ACM.

SECTION 4

State of Iowa Asbestos Inspector License

TRAVIS HAAS

DOB: 01/09/1982

Issued: 01/15/2016



This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License type
INSPECTOR

Number	Expires
16-5764	01-08-2017



ASBESTOS

Michael A. Mauro
Labor Commissioner

SECTION 5

Asbestos Inspector Certificate

2016



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Travis Haas

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Wisconsin Department of Health Services for purposes of accreditation in accordance with requirements listed under CH.DHS159, Wisconsin Administrative Code; EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.

Location: 12304 75th Street Kenosha, WI 53142

Certificate Number: BIRWI1601080068
Course Date: 1/8/2016
Exam Date: 1/8/2016
Expiration Date: 1/8/2017

Kathy DeSalvo, Director

Issue Date: 1/8/2016



SECTION 6

REPORT DATA

BUILDING NAME: Multiple Buildings

INSPECTION AREAS: Interior and exterior

CLIENT CONTRACT: HR Green: Emily Smart: 319-841-4000

METHOD:

All samples are sent to EMC LABS, INC in Phoenix, Arizona. EMC LABS is accredited by the National Institute for Standards and Technology for Polarized Light Microscopy analysis under their NVLAP accreditation (NVLAP #: 101926-0). Sampling was completed by a State of Iowa licensed asbestos inspector, licensed with the Iowa Division of Labor. Sampling methods were based on National Emission Standards for Hazardous Air Pollutants (NESHAPS) protocols. Bulk samples of suspect asbestos containing material were analyzed by Polarized Light Microscopy (PLM).

OVERVIEW:

An asbestos inspection was conducted on September 6th, 2016 at the property located at the above address. The area of inspection was the interior and exterior of multiple structures on the property. They include both four story buildings, one on Elm St. and one on 15th St., the partially collapsed one story structure on 15th St., front wall on Elm and 15th St., small lean to building East of Elm St. four story building and the metal crusher building at the North end of the property. At the time of the inspection at the partially collapsed building in the center of the property could not be inspected due to current conditions. Initial buildings on the property where built around the 1890's and used to build caskets. The current owner's family purchased the property in 1942 and used the property as a metal salvage yard since. Any material that will be disturbed during renovations/demolition that was not tested should be tested prior to disturbing it. A total of ninety-five samples were collected and one hundred forty-eight samples were analyzed including layered material (example floor tile and mastic are reported as two distinct samples). Samples can be categorized by miscellaneous, surfacing, and thermal.

SECTION 7

PROJECT SUMMARY

POSITIVE SAMPLE RESULTS:

The following samples tested positive (>1%) for asbestos:

Collapsed Building (E. 15th St. Side)

Sample Number	Material	Color	Locations	Quantity	ACM%
A-3	Glazing	White	Exterior windows	1 window plus debris in other windows	3% Chry.
A-4	Caulking	Black	Window frame to brick, exterior windows	7 Each	12% Chry.
A-9	Caulking	White	Side door, 15 th St side	1 Each	3% Chry.
A-10	Caulking	Black	Scale house side, side door	1 Each	8% Chry.

Front wall Elm St. Side

Sample Number	Material	Color	Locations	Quantity	ACM%
A-15	Glazing	White	Old wood windows	5 Each	3% Chry.

Collapsed Boiler building, East of Elm St Building

Sample Number	Material	Color	Locations	Quantity	ACM%
A-18/19	Glazing	White	Exterior windows	3 Each	3% Chry.
A-20/20A	Roofing	Black	South part of building	600 Sq. Ft.	2-8% Chry.
A-21/22	Tar	Black	Flashing on brick/Elm St. building	60 Sq. Ft.	10% Chry
A-23	Tar paper	Black	Under metal, North section	500 Sq. Ft.	5% Chry.

Elm St. Four Story Building

Sample Number	Material	Color	Locations	Quantity	ACM%
A-28	Glazing	White	Older wood windows	13 Each	3% Chry.
A-31,32,33	Tar	Black	Roof on metal	4,500	2-10% Chry.
A-35	Tar	Grey	Roof on metal	See A-31	10% Chry.
A-37,38	Caulking	Black	Window frame to brick, interior windows	22 Each	5-7% Chry.
A-47, 48	Caulking	Black	Exterior window frame to brick	74 Each	5-7% Chry.
Assumed	Window Glazing	White	Miscellaneous window stored throughout the building	50 Each?	Unknown

E. 15th St., Four Story Building

Sample Number	Material	Color	Locations	Quantity	ACM%
A-49	Field Roofing	Black	Roof	8,500 Sq. Ft.	5% Chry
A-51	Flashing	Black	Parapet walls	360 Sq. Ft.	4% Chry.
A-54	Tar	Black	Above flashing on parapet wall	360 Sq. Ft.	5-10 Chry.
A-57	Tar	Black	West side wall, 40 ft in air	30 Sq. Ft.	4% Chry.
A-66	Glazing	White	2 nd floor wood windows (all wood windows)	13 Each	5% Chry.
A-70	Tile	Black	Industrial tile front office	600 Sq. Ft	3-15% Chry.
A-71/72	Floor tile and mastic	Brown	Under industrial tile	600 Sq. Ft.	5-10% Chry.
A-73	Floor tile	White	Front counter	5 Sq. Ft.	3% Chry.
A-81/82	Insulation	White	Basement on boiler (debris	5 Sq. Ft.	40% Chry.
A-82	Caulking	Black	Exterior window frames to brick	72 Each	15% Chry.

Crusher Building

Sample Number	Material	Color	Locations	Quantity	ACM%
A-93	Flashing	Black	Roof	75 Ln. Ft.	25-30% Chry.
A-94	Field	Black	Roof	500 Sq. Ft.	20% Chry.

The inspection was to identify asbestos containing materials prior to renovations/demolition. The inspection entailed a visual assessment of the property for suspect asbestos containing materials, collection, and submittal of bulk samples for analysis.

In Iowa, asbestos activities are controlled by the Iowa Department of Natural Resources and Iowa Workforce Development Division of Labor.

Questions about testing and removal can be answered by:

Tom Wuehr: Iowa Department of Natural Resources, Air Quality Division: 515-281-8212:

Jeff Ellis: Iowa Workforce Development Division of labor at 515-281-5557

NOTES:

1: Scrap metal inventory on site was not checked for asbestos. At the time of inspection there were piles of inventory, including machines that could contain asbestos. This includes both the scrap metal inventory (I.E gaskets, insulation, TSI) and equipment on site.

2. Boiler inside the collapsed building, east of the Elm St. four story building was not inspected due to building condition.

3. At the time of the inspection the buildings were currently occupied. Paneling was not pulled off the wall and check for asbestos. Some materials were not sampled due to no access to the material. The building should be re-inspected thoroughly prior to demolition and sample material that what was not tested..

*Includes tar on the 1st floor, rear of building on 15th St. and paneling adhesive in office.

4. Black caulking around windows on the exterior of the Elm St. building and 15th St. building tested positive. It was assumed that all windows have caulking around the exterior from the frame to brick walls.

5. All tar on the Elm St. building roof should be all assumed asbestos. Lab results indicated both positive and negative samples

6. Sample A-49, roofing field on the 15th St. building only the Silver layer tested positive for asbestos. It is recommended to treat all layers as asbestos containing.

7. Windows in storage in the Elm St. building are assumed positive for asbestos. There are approximately 50 windows in storage on multiple floors throughout the building.

SEE NEXT PAGE

Advanced Environmental Testing and Abatement Inc.
803 Ricker St
Waterloo, Iowa 50703

Facility Name/Site Location					
Blum Properties 411 E. 15th St. Dubuque, IA 52001					
Location			Current Condition	Inspected By: Travis Haas	
Sample No	Material	Color			
Collapsed Building (E. 15th St. Side)					
A-1	Dw	White	South East room ,drywall walls	Damaged	0%
A-2	Glazing	White	Window glazing, SW room (interior windows)	Good	0%
A-3	Glazing	White	Exterior East side by scale house	Good	3%
A-4	Tar	Black	East side windows, brick to frame and 15th st side windows	Good	12%
A-5	Roofing	Black	Debris, North side on ground	Damaged	0%
A-6	DW	White	Covering North side windows	Damaged	0%
A-7	Roofing	Black	Debris laying on top of 2nd floor	Damaged	0%, 0%
A-8	Tar paper	Black	Sprinkler room, NW side on walls	Good	0%
A-9	Caulking	White	15th st. side door, caulking frame to brick	Good	3%
A-10	Caulking	Black	Scale house side door frame to wood	Good	8%
A-11	Brick/mortar	Red/Grey	15th st. side exterior brick mortar	Good	0%, 0%
			Front wall of collapsed building that sat on 15th and Elm.		
A-12	Plaster	Grey	Around window sills Interior side	Damaged	0%
A-13	Plaster	Grey	Around interior window sills	Damaged	0%
A-14	Plaster	Grey	Around interior window sills	Damaged	0%
A-15	Glazing	White	Wood windows, elm st. front wall	Damaged	3%
A-16	Brick/mortar	Red/grey	Front wall exterior	Good	0%, 0%
A-17	Brick/mortar	Red/grey	Front wall interior	Good	0%, 0%
Collapsed Boiler building by Elm St. 4 story building					
A-18	Glazing	White	Windows, East side	Damaged	3%
A-19	Glazing	White	Windows, East Side	Damaged	3%
A-20	Roofing	Black	South part of building that collapsed	Damaged	0%, 8%
A-20A	Roofing	Black	South part of building that collapsed	Damaged	0%, 2%
A-21	Tar	Black	Tar from flashing, boiler roof to Elm St. building	Damaged	10%
A-22	Tar	Black	Tar from flashing, boiler roof to Elm St. building	Damaged	10%
A-23	Tar paper	Black	Tar paper under metal roof North Section	Good	0%, 5%

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Facility Name/Site Location					
Blum Properties 411 E. 15th St. Dubuque, IA 52001			Inspected By: Travis Haas		
Sample No.	Material	Color	Location	Current Condition	Results
A-24	Tar	Black	Tar on metal roof, North section of roofing	Good	0%
A-25	Brick/mortar	Red/Grey	By boiler	Good	0%
A-26	Brick/mortar	Red/Grey	By boiler	Good	0%
Building 3 (Elm St. 4 story building.)					
A-27	Glazing	Black	1st floor window	Good	0%
A-28	Glazing	White	1st floor windows	Good	3%
A-29	Gasket	Red	1st floor sprinkler gasket	Good	0%
A-30	Glazing	White	3rd floor east window	Good	0%
A-31	Tar	Black	Black tar on NE corner of roof	Good	10%, 3%
A-32	Tar	Black	Black tar East flashing	Good	8%, 3%
A-33	Tar	Black	Black tar center of roof, North side	Good	5%, 2%
A-34	Tar	Grey	Grey tar on roof hatch	Good	0%
A-35	Tar	Grey	Grey tar on North side on metal, center of roof	Good	10%
A-36	Tar	Grey	Grey tar from strips on South side of roof	Good	0%
A-37	Tar	Black	From window frame to brick 4th story windows	Good	12%
A-38	Tar	Black	From window frame to brick 4th floor windows	Good	12%
A-39	Tar	Black	From 3rd floor tar, West/North wall patch	Good	0%
A-40	Tar	Black	From 3rd floor tar, West/North wall patch	Good	0%
A-41	Plaster	Grey	Patch plaster, 2nd floor SE corner	Good	0%
A-42	Plaster	Grey	Patch plaster, 2nd floor SE corner	Good	0%
A-43	Plaster	Grey	Patch plaster, 2nd floor SE corner	Good	0%
A-44	Plaster	White	Patch, SE corner 2nd floor on wall/brick	Good	0%
A-45	Brick/Mortar	Red/Grey	Interior walls	Good	0%, 0%
A-46	Brick/Mortar	Red/Grey	Interior walls	Good	0%, 0%
A-47	Tar/Caulking	Black	Exterior front windows, (West, brick to metal)	Good	7%
A-48	Tar/Caulking	Black	Exterior front windows, (West, brick to metal)	Good	5%

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Sample No.	Material	Color	Location	Current Condition	Results
Building 1, 4 story building E. 15th St.					
A-49	Field	Black	North section of roof	Good	0%, 0%, 0%, 0%, 0%, 5%, 0%
A-50	Field	Black	South section of roof	Good	0%, 0%, 0%, 0%, 0%, 0%
A-51	Flashing	Black	South wall	Good	4%, 0%, 0%
A-52	Flashing	Black	On metal under rubber West wall	Good	0%
A-53	Flashing	Black	Under metal, west wall	Good	0%, 0%
A-54	Tar	Black	Tar above flashing on parapet, South wall under Rubber	Good	5%, 10%
A-55	Tar	Black	On top on parapet wall, West wall	Good	0%
A-56	Caulking	Black	Rubber seam caulking	Good	0%
A-57	Tar	Black	West side wall, 40 ft up in the air	Good	0%, 4%
A-58	Tar paper	Black	4th floor walls	Good	0%
A-59	Tar paper	Black	4th floor walls	Good	0%
A-60	Plaster	Grey	4th floor, South section	Good	0%, 0%
A-61	Plaster	Grey	4th floor, North 2nd	Good	0%, 0%
A-62	Plaster	Grey	4th floor South end	Good	0%, 0%
A-63	Pyro block	White	Pyro block and mortar	Good	0%, 0%
A-64	Tape	Blue	Around 4th floor windows interior	Good	0%
A-65	Brick/mortar	Red	Interior brick/mortar	Good	0%, 0%
A-66	Glazing	White	Window glazing 2nd floor wood windows	Good	5%
A-67	Glazing	White	Window glazing 2nd floor wood windows	Good	0%
A-68	Plaster	Grey	1st floor near West side entrance	Good	0%
A-69	Ct	White	Ceiling tile in break room	Good	0%
A-70	Tile	Black	Industrial tile top layer in main office area	Good	15%, 3%
A-71	F/M	Brown	2nd layer under A-70	Good	10%, 8%
A-72	F/M	Dk. Brown	Front entrance, 2nd layer floor tile	Good	5%, 10%
A-73	F/M	White	F/M front counter	Good	3%, 0%
A-74	SCT	White	Front storage room, 2x4 SCT, dots and wholes	Good	0%

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Facility Name/Site Location									
				Blum Properties 411 E. 15th St. Dubuque, IA 52001				Inspected By: Travis Haas	
Sample No.	Material	Color	Location			NF/F	Results		
A-75	Dw	White	Storage office to East			Good	0%		
A-76	Plaster	Grey	Storage room			Good	0%, 0%		
A-77	Insulation	Brown	Cooler walls			Good	0%		
A-78	Tar paper	Black	Storage room, muskrat storage			Good	0%		
A-79	FT	Black	In private restroom			Damaged	0%, 0%		
A-80	Gasket	Red	On boiler in basement			Good	0%		
A-81	Insulation	White	On boiler in basement			Good	40%		
A-82	Insulation	White	On boiler in basement			Good	40%		
A-83	Tar paper	Black	Tunnel in basement ceiling			Good	0%		
A-84	Brick/mortar	Red/Grey	Around exterior			Good	0%, 0%		
A-85	Caulking	Black	Exterior window frames to brick			Good	15%		
A-86	Caulking	White	Flexible caulking South newer windows			Good	0%		
A-87	Caulking	White	Metal to brick South side			Good	0%		
A-88	Caulking	White	South entrance door			Good	0%		
A-89	Caulking	Black	Around windows West side			Good	0%		
A-90	Fiberboard	Brown	East side storage dock			Good	0%		
Crusher building									
A-91	Ceiling tile	Brown	Control center			Good	0%, 0%		
A-92	Caulking	Clear	Caulking around door			Good	0%		
A-93	Flashing	Black	Crusher roof			Good	25%, 30%		
A-94	Field	Black	Crusher roof			Good	0%, 20%		

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Laboratory Report

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ADVANCED ENVIRONMENTAL	Job# / P.O. #:	Z21857W-HAAS
Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-001 A-1	COLLAPSED BLDG (E. 15TH ST SIDE)- SE RM	Drywall/ Fiberboard, Beige/ Gray	No	None Detected	Cellulose Fiber 85% Gypsum Binder/Filler 15%
0176832-002 A-2	COLLAPSED BLDG (E. 15TH ST SIDE)- SW RM (INT WINDOWS)	Window Glazing, Off White/ Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
0176832-003 A-3	COLLAPSED BLDG (E. 15TH ST SIDE)- EXT. E. SIDE BY SCALE HOUSE	Window Glazing, Off White/ Gray	Yes	Chrysotile 3%	Carbonates Quartz Binder/Filler 97%
0176832-004 A-4	COLLAPSED BLDG (E. 15TH ST SIDE)- E. SIDE WINDOWS, BRICK TO FRAME & 15TH ST	Tar, Black Note: Difficult to separate adjacent layers	Yes	Chrysotile 12%	Carbonates Binder/Filler 88%
0176832-005 A-5	COLLAPSED BLDG (E. 15TH ST SIDE)- DEBRIS, N. SIDE ON GROUND	Roofing, Black	No	None Detected	Cellulose Fiber 60% Gypsum Carbonates Binder/Filler 40%

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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0176832-006 A-6	COLLAPSED BLDG (E. 15TH ST SIDE)- COVERING N. SIDE WINDOWS	Drywall, White	No	None Detected	Cellulose Fiber	3%
					Gypsum Carbonates Mica Binder/Filler	97%
0176832-007 A-7	COLLAPSED BLDG (E. 15TH ST SIDE)- DEBRIS LAYING ON TOP OF 2ND FL	LAYER 1 Roofing, Black	No	None Detected	Cellulose Fiber	60%
					Gypsum Carbonates Binder/Filler	40%
		LAYER 2 Roofing, Black	No	None Detected	Cellulose Fiber	60%
					Carbonates Binder/Filler	40%
0176832-008 A-8	COLLAPSED BLDG (E. 15TH ST SIDE)- SPRINKLER R-NW SIDE ON WALLS	Tar Paper, Black	No	None Detected	Cellulose Fiber	70%
					Gypsum Binder/Filler	30%
0176832-009 A-9	COLLAPSED BLDG (E. 15TH ST SIDE)- 15TH ST SIDE DOOR-FRAME TO BRICK	Caulking, White	Yes	Chrysotile	3%	
					Carbonates Quartz Binder/Filler	97%

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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-010 A-10	COLLAPSED BLDG (E. 15TH ST SIDE)- SCALE HOUSE SIDE DOOR FRAME TO WOOD	Caulking, Black	Yes	Chrysotile 8%	Carbonates Quartz Binder/Filler 92%
0176832-011 A-11	COLLAPSED BLDG (E. 15TH ST SIDE)- 15TH ST EXT. BRICK MORTAR	LAYER 1 Brick, Red	No	None Detected	Gypsum Quartz Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	Carbonates Quartz Gypsum Mica Binder/Filler 100%
0176832-012 A-12	FRONT WALL OF COLLAPSED BLDG THAT SAT ON 15TH & ELM-AROUND INT WINDOW SILLS	Plaster, Gray/ Beige	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%

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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-013 A-13	FRONT WALL OF COLLAPSED BLDG THAT SAT ON 15TH & ELM-AROUND INT WINDOW SILLS	Plaster, Gray/ Beige	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%
0176832-014 A-14	FRONT WALL OF COLLAPSED BLDG THAT SAT ON 15TH & ELM-AROUND INT WINDOW SILLS	Plaster, Gray/ Beige	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%
0176832-015 A-15	FRONT WALL OF COLLAPSED BLDG THAT SAT ON 15TH & ELM-ELM ST FRONT WALL	Glazing, White	Yes	Chrysotile 3%	Carbonates Quartz Binder/Filler 97%

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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-016 A-16	FRONT WALL OF COLLAPSED BLDG THAT SAT ON 15TH & ELM-FRONT WALL EXTERIOR	LAYER 1 Brick, Red	No	None Detected	
					Gypsum Quartz Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	
					Carbonates Quartz Gypsum Mica Binder/Filler 100%
0176832-017 A-17	FRONT WALL OF COLLAPSED BLDG THAT SAT ON 15TH & ELM-FRONT WALL INTERIOR	LAYER 1 Brick, Red	No	None Detected	
					Gypsum Quartz Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	
					Carbonates Quartz Gypsum Mica Binder/Filler 100%
0176832-018 A-18	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-E SIDE	Glazing, White	Yes	Chrysotile 3%	Wollastonite 2%
					Carbonates Quartz Binder/Filler 95%

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Address:		Submitted By:	TRAVIS HAAS
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Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-019 A-19	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-E. SIDE	Glazing, White	Yes	Chrysotile 3%	Wollastonite 2%
					Carbonates Quartz Binder/Filler 95%
0176832-020 A-20	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-S. PART OF BLDG THAT COLLAPSED	LAYER 1 Roofing, Silver	No	None Detected	Cellulose Fiber 1%
		LAYER 2 Roofing, Black	Yes	Chrysotile 8%	Carbonates Binder/Filler 99%
					Carbonates Quartz Binder/Filler 92%
0176832-021 A-20A	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-S. PART OF BLDG THAT COLLAPSED	LAYER 1 Roofing, Silver	No	None Detected	Cellulose Fiber <1%
		LAYER 2 Roofing, Black	Yes	Chrysotile 2%	Carbonates Binder/Filler 99%
					Cellulose Fiber <1%
					Carbonates Quartz Binder/Filler 97%

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Address:		Submitted By:	TRAVIS HAAS
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Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-022 A-21	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-BOILER ROOF TO ELM ST. BLDG	Tar, Black	Yes	Chrysotile 10%	Carbonates Quartz Binder/Filler 90%
0176832-023 A-22	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-BOILER ROOF TO ELM ST. BLDG	Tar, Black	Yes	Chrysotile 10%	Carbonates Quartz Binder/Filler 90%
0176832-024 A-23	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-UNDER METAL ROOF NORTH SECTION	LAYER 1 Tar Paper, Silver	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Tar Paper, Black	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%

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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-025 A-24	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-METAL ROOF-N. SECTION OF ROOF	Tar, Black	No	None Detected	Cellulose Fiber 10%
					Gypsum Carbonates Binder/Filler 90%
0176832-026 A-25	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-BY BOILER	LAYER 1 Brick, Red	No	None Detected	
					Gypsum Quartz Carbonates Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	
					Carbonates Quartz Gypsum Mica Binder/Filler 100%
0176832-027 A-26	COLLAPSED BOILER BLDG BY ELM ST 4 STORY BLDG-BY BOILER	LAYER 1 Brick, Red	No	None Detected	
					Gypsum Quartz Carbonates Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	
					Carbonates Quartz Gypsum Mica Binder/Filler 100%

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Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-028 A-27	BLDG 3 (ELM ST 4 STORY BLDG)-1ST FL WINDOWS	Glazing, Black	No	None Detected	Carbonates Quartz Binder/Filler 100%
0176832-029 A-28	BLDG 3 (ELM ST 4 STORY BLDG)-1ST FL WINDOWS	Glazing, White	Yes	Chrysotile 3%	Talc 2% Carbonates Quartz Binder/Filler 95%
0176832-030 A-29	BLDG 3 (ELM ST 4 STORY BLDG)-1ST FL	Gasket, Red	No	None Detected	Carbonates Quartz Binder/Filler 100%
0176832-031 A-30	BLDG 3 (ELM ST 4 STORY BLDG)-3RD FL E. WINDOW	Glazing, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0176832-032 A-31	BLDG 3 (ELM ST 4 STORY BLDG)-ON NE CRNR ROOF	LAYER 1 Tar, Black	Yes	Chrysotile 10%	Carbonates Binder/Filler 90%
		LAYER 2 Tar, Silver	Yes	Chrysotile 3%	Carbonates Quartz Binder/Filler 97%

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Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-033 A-32	BLDG 3 (ELM ST 4 STORY BLDG)- EAST FLASHING	LAYER 1 Tar, Black	Yes	Chrysotile 8%	Cellulose Fiber 2%
					Carbonates Quartz Binder/Filler 90%
		LAYER 2 Tar, Silver	Yes	Chrysotile 3%	Carbonates Binder/Filler 97%
0176832-034 A-33	BLDG 3 (ELM ST 4 STORY BLDG)- CENTER OF ROOF- N. SIDE	LAYER 1 Tar, Black	Yes	Chrysotile 5%	
					Carbonates Binder/Filler 95%
		LAYER 2 Tar, Silver	Yes	Chrysotile 2%	Carbonates Quartz Binder/Filler 98%
0176832-035 A-34	BLDG 3 (ELM ST 4 STORY BLDG)-ON ROOF HATCH	Tar, Gray/ Black	No	None Detected	Cellulose Fiber 10%
					Carbonates Binder/Filler 90%
0176832-036 A-35	BLDG 3 (ELM ST 4 STORY BLDG)-N SIDE ON METAL- CENTER OF ROOF	Tar, Gray/ Black	Yes	Chrysotile 10%	
					Carbonates Binder/Filler 90%

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Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-037 A-36	BLDG 3 (ELM ST 4 STORY BLDG)- FROM STRIPS ON S. SIDE OF ROOF	Tar, Gray/ Black	No	None Detected	Cellulose Fiber 10% Carbonates Binder/Filler 90%
0176832-038 A-37	BLDG 3 (ELM ST 4 STORY BLDG)- WINDOW FRAME TO BRICK-4TH FL WINDOWS	Tar/Caulking, Black	Yes	Chrysotile 12%	Carbonates Binder/Filler 88%
0176832-039 A-38	BLDG 3 (ELM ST 4 STORY BLDG)- WINDOW FRAME TO BRICK-4TH FL WINDOWS	Tar/Caulking, Black	Yes	Chrysotile 12%	Carbonates Binder/Filler 88%
0176832-040 A-39	BLDG 3 (ELM ST 4 STORY BLDG)-3RD FL-WEST/NORTH WALL PATCH ON BRICK	Tar, Black	No	None Detected	Cellulose Fiber 1% Quartz Gypsum Carbonates Binder/Filler 99%

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		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-041 A-40	BLDG 3 (ELM ST 4 STORY BLDG)-3RD FL-WEST/NORTH WALL PATCH ON BRICK	Tar, Black	No	None Detected	Cellulose Fiber 2% Wollastonite 1% Quartz Gypsum Carbonates Binder/Filler 97%
0176832-042 A-41	BLDG 3 (ELM ST 4 STORY BLDG)-2ND FL SE CRNR	Plaster, Gray	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%
0176832-043 A-42	BLDG 3 (ELM ST 4 STORY BLDG)-2ND FL SE CRNR	Plaster, Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Carbonates Mica Binder/Filler 99%
0176832-044 A-43	BLDG 3 (ELM ST 4 STORY BLDG)-2ND FL SE CRNR	Plaster, Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Carbonates Mica Binder/Filler 99%

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Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-045 A-44	BLDG 3 (ELM ST 4 STORY BLDG)-SE CRNR 2ND FL ON WALL/BRICK	Plaster, White	No	None Detected	Gypsum Quartz Carbonates Mica Binder/Filler 100%
0176832-046 A-45	BLDG 3 (ELM ST 4 STORY BLDG)-INT WALLS	LAYER 1 Brick, Red	No	None Detected	Quartz Gypsum Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%
0176832-047 A-46	BLDG 3 (ELM ST 4 STORY BLDG)-EXT WALLS	LAYER 1 Brick, Red	No	None Detected	Quartz Gypsum Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%

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		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-048 A-47	BLDG 3 (ELM ST 4 STORY BLDG)-EXT FRONT WINDOWS (W., BRICK TO METAL)	Tar/Caulking, Black	Yes	Chrysotile	7% Cellulose Fiber 3%
					Quartz Carbonates Binder/Filler 90%
0176832-049 A-48	BLDG 3 (ELM ST 4 STORY BLDG)-EXT FRONT WINDOWS (W., BRICK TO METAL)	Tar/Caulking, Black	Yes	Chrysotile	5% Cellulose Fiber 1%
					Carbonates Gypsum Binder/Filler 94%
0176832-050 A-49	BLDG 1-4 STORY BLDG E. 15TH ST- NORTH ROOF	LAYER 1 Field, Black	No	None Detected	Cellulose Fiber 40%
					Quartz Binder/Filler 60%
		LAYER 2 Field, Black	No	None Detected	Cellulose Fiber 30%
					Quartz Binder/Filler 70%
		LAYER 3 Field, Black	No	None Detected	Cellulose Fiber 30%
					Quartz Binder/Filler 70%
		LAYER 4 Field, Black	No	None Detected	Cellulose Fiber 40%
					Gypsum Binder/Filler 60%
Please see EMC Labs Sample Number 0176832-096 for Additional Asbestos Containing Layers					

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Laboratory Report
0176832

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ADVANCED ENVIRONMENTAL	Job# / P.O. #:	Z21857W-HAAS
Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0176832-051 A-50	BLDG 1-4 STORY BLDG E. 15TH ST- SOUTH ROOF	LAYER 1 Field, Black	No	None Detected	Cellulose Fiber	30%
					Quartz Binder/Filler	70%
		LAYER 2 Field, Brown	No	None Detected	Cellulose Fiber	85%
					Gypsum Binder/Filler	15%
		LAYER 3 Field, Black	No	None Detected	Cellulose Fiber	30%
					Carbonates Binder/Filler	70%
		LAYER 4 Field, Black	No	None Detected	Cellulose Fiber	30%
					Carbonates Binder/Filler	70%
Please see EMC Labs Sample Number 0176832-097 for Additional Layers						
0176832-052 A-51	BLDG 1-4 STORY BLDG E. 15TH ST- SOUTH WALL	LAYER 1 Flashing, Silver	Yes	Chrysotile 4%	Cellulose Fiber	1%
					Quartz Carbonates Binder/Filler	95%
		LAYER 2 Flashing, Black	No	None Detected	Cellulose Fiber	40%
					Gypsum Binder/Filler	60%
		LAYER 3 Flashing, Black	No	None Detected	Cellulose Fiber	40%
					Gypsum Binder/Filler	60%
0176832-053 A-52	BLDG 1-4 STORY BLDG E. 15TH ST- WEST WALL	Flashing, Black	No	None Detected	Cellulose Fiber Fibrous Glass	30% 10%
					Gypsum Binder/Filler	60%

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NVLAP#101926-0

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	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0176832-054 A-53	BLDG 1-4 STORY BLDG E. 15TH ST- WEST WALL	LAYER 1 Flashing, Black	No	None Detected	Cellulose Fiber	40%
		LAYER 2 Flashing, Black	No	None Detected	Gypsum Binder/Filler	60%
					Cellulose Fiber	30%
					Quartz Binder/Filler	70%
0176832-055 A-54	BLDG 1-4 STORY BLDG E. 15TH ST- SOUTH WALL	LAYER 1 Tar, Silver	Yes	Chrysotile	5%	
		LAYER 2 Tar, Silver	Yes	Chrysotile	10%	Quartz Gypsum Binder/Filler
						95%
						Carbonates Binder/Filler
0176832-056 A-55	BLDG 1-4 STORY BLDG E. 15TH ST- WEST WALL	Tar, Black	No	None Detected	Fibrous Glass Cellulose Fiber	15% 5%
					Quartz Binder/Filler	80%
0176832-057 A-56	BLDG 1-4 STORY BLDG E. 15TH ST	Caulking, Black	No	None Detected	Cellulose Fiber	<1%
					Carbonates Quartz Binder/Filler	99%

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NVLAP#101926-0

Client:	ADVANCED ENVIRONMENTAL	Job# / P.O. #:	Z21857W-HAAS
Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0176832-058 A-57	BLDG 1-4 STORY BLDG E. 15TH ST- W. SIDE WALL-40' UP IN THE AIR	LAYER 1 Tar, Black	No	None Detected	Cellulose Fiber	10%
		LAYER 2 Tar, Silver	Yes	Chrysotile 4%	Carbonates Binder/Filler	90%
					Cellulose Fiber	2%
					Quartz Carbonates Binder/Filler	94%
0176832-059 A-58	BLDG 1-4 STORY BLDG E. 15TH ST- 4TH FL WALLS	Tar Paper, Black	No	None Detected	Cellulose Fiber	40%
					Gypsum Binder/Filler	60%
0176832-060 A-59	BLDG 1-4 STORY BLDG E. 15TH ST- 4TH FL WALLS	Tar Paper, Black	No	None Detected	Cellulose Fiber	40%
					Gypsum Binder/Filler	60%
0176832-061 A-60	BLDG 1-4 STORY BLDG E. 15TH ST- 4TH FL S. SECTION	LAYER 1 Plaster-Scratch Coat, Gray	No	None Detected	Cellulose Fiber	<1%
		LAYER 2 Plaster-Finish Coat, White	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler	99%
					Carbonates Gypsum Quartz Binder/Filler	100%

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NVLAP#101926-0

Client:	ADVANCED ENVIRONMENTAL	Job# / P.O. #:	Z21857W-HAAS
Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-062 A-61	BLDG 1-4 STORY BLDG E. 15TH ST- 4TH FL N. END	LAYER 1 Plaster-Scratch Coat, Gray	No	None Detected	Cellulose Fiber <1%
					Quartz Gypsum Carbonates Mica Binder/Filter 99%
		LAYER 2 Plaster-Finish Coat, White	No	None Detected	Carbonates Gypsum Quartz Binder/Filter 100%
0176832-063 A-62	BLDG 1-4 STORY BLDG E. 15TH ST- S. END 4TH FL	LAYER 1 Plaster-Scratch Coat, Gray	No	None Detected	Cellulose Fiber <1%
					Quartz Gypsum Carbonates Mica Binder/Filter 99%
		LAYER 2 Plaster-Finish Coat, White	No	None Detected	Carbonates Gypsum Quartz Binder/Filter 100%

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Client:	ADVANCED ENVIRONMENTAL	Job# / P.O. #:	Z21857W-HAAS
Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-064 A-63	BLDG 1-4 STORY BLDG E. 15TH ST- 4TH FL	LAYER 1 Pyro Block, White	No	None Detected	Cellulose Fiber 1%
					Gypsum Mica Quartz Binder/Filler 99%
		LAYER 2 Mortar, Gray	No	None Detected	Cellulose Fiber <1%
					Quartz Gypsum Carbonates Mica Binder/Filler 99%
0176832-065 A-64	BLDG 1-4 STORY BLDG E. 15TH ST- 4TH FL AROUND WINDOW FRAME TO BRICK	Tape, Blue	No	None Detected	Cellulose Fiber 15%
					Gypsum Quartz Binder/Filler 85%
0176832-066 A-65	BLDG 1-4 STORY BLDG E. 15TH ST- INTERIOR	LAYER 1 Brick, Red	No	None Detected	Quartz Gypsum Carbonates Binder/Filler 100%
		LAYER 2 Mortar, Gray	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler 100%

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Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0176832-067 A-66	BLDG 1-4 STORY BLDG E 15TH ST- 2ND FL WOOD WINDOW	Window Glazing, White	Yes	Chrysotile 5%	Carbonates Perlite Quartz Binder/Filler	95%
0176832-068 A-67	BLDG 1-4 STORY BLDG E 15TH ST- 2ND FL WOOD WINDOW	Window Glazing, Black	No	None Detected	Cellulose Fiber Carbonates Perlite Quartz Binder/Filler	2% 98%
0176832-069 A-68	BLDG 1-4 STORY BLDG E 15TH ST- 1ST FL NE W. SIDE ENTRANCE	Plaster, Gray	No	None Detected	Cellulose Fiber Gypsum Quartz Carbonates Mica Binder/Filler	<1% 99%
0176832-070 A-69	BLDG 1-4 STORY BLDG E 15TH ST- IN BREAK RM W/ ADH.	Ceiling Tile, Lt. Green/ Tan	No	None Detected	Cellulose Fiber Carbonates Binder/Filler	85% 15%

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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-071 A-70	BLDG 1-4 STORY BLDG E. 15TH ST- TOP LVR MAIN OFFICE	LAYER 1 Tile, Black	Yes	Chrysotile 15%	
					Carbonates Quartz Binder/Filler 85%
		LAYER 2 Mastic, Black	Yes	Chrysotile 3%	Cellulose Fiber 2%
					Quartz Carbonates Binder/Filler 95%
0176832-072 A-71	BLDG 1-4 STORY BLDG E. 15TH ST- FRONT ENTRANCE- 2ND LVR	LAYER 1 Floor Tile, Brown	Yes	Chrysotile 10%	
					Carbonates Quartz Binder/Filler 90%
		LAYER 2 Mastic, Black	Yes	Chrysotile 8%	Cellulose Fiber 2%
					Quartz Carbonates Carbonates Binder/Filler 90%
0176832-073 A-72	BLDG 1-4 STORY BLDG E. 15TH ST- FRONT ENTRANCE- 2ND LVR	LAYER 1 Floor Tile, Dk. Brown	Yes	Chrysotile 5%	Cellulose Fiber 5%
					Carbonates Quartz Binder/Filler 90%
		LAYER 2 Mastic, Black	Yes	Chrysotile 10%	
					Quartz Binder/Filler 90%

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Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-074 A-73	BLDG 1-4 STORY BLDG E. 15TH ST- FRONT COUNTER	LAYER 1 Floor Tile, White	Yes	Chrysotile 3%	
					Carbonates Quartz Binder/Filler 97%
		LAYER 2 Mastic, Clear/Yellow	No	None Detected	Cellulose Fiber 3%
					Quartz Carbonates Binder/Filler 97%
0176832-075 A-74	BLDG 1-4 STORY BLDG E. 15TH ST- FRONT STORAGE RM	Suspended Ceiling Tile, White / Tan	No	None Detected	Cellulose Fiber 85%
					Carbonates Binder/Filler 15%
0176832-076 A-75	BLDG 1-4 STORY BLDG E. 15TH ST- STORAGE OFFICE TO EAST	Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10%
					Gypsum Carbonates Mica Quartz 90%

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Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0176832-077 A-76	BLDG 1-4 STORY BLDG E. 15TH ST- STORAGE RM	LAYER 1 Plaster-Scratch Coat, Gray	No	None Detected	Quartz Gypsum Carbonates Mica Binder/Filler	100%
		LAYER 2 Plaster-Finish Coat, White	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0176832-078 A-77	BLDG 1-4 STORY BLDG E. 15TH ST- COOLER WALLS	Insulation, Brown	No	None Detected	Cellulose Fiber	95%
					Gypsum Binder/Filler	5%
0176832-079 A-78	BLDG 1-4 STORY BLDG E. 15TH ST- STORAGE RM, MUSKRAT GOOM	Tar Paper, Black	No	None Detected	Cellulose Fiber	40%
					Carbonates Binder/Filler	60%
0176832-080 A-79	BLDG 1-4 STORY BLDG E. 15TH ST- IN PRIVATE RESTRM	LAYER 1 Floor Tile, Black	No	None Detected	Cellulose Fiber	15%
		LAYER 2 Leveling Compound, Off White	No	None Detected	Carbonates Binder/Filler	85%
					Cellulose Fiber Gypsum Mica Quartz Binder/Filler	3% 97%

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	WATERLOO IA 50703	Date Analyzed:	10/11/2016
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Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-081 A-80	BLDG 1-4 STORY BLDG E. 15TH ST- ON BOILER IN BASEMENT	Gasket, Red	No	None Detected	Cellulose Fiber 2% Quartz Gypsum Binder/Filler 98%
0176832-082 A-81	BLDG 1-4 STORY BLDG E. 15TH ST- ON BOILER IN BASEMENT	Insulation, White/ Gray	Yes	Chrysotile 40%	Cellulose Fiber 5% Gypsum Mica Quartz Binder/Filler 55%
0176832-083 A-82	BLDG 1-4 STORY BLDG E. 15TH ST- ON BOILER IN BASEMENT	Insulation, White/ Gray	Yes	Chrysotile 40%	Cellulose Fiber 5% Gypsum Mica Quartz Binder/Filler 55%
0176832-084 A-83	BLDG 1-4 STORY BLDG E. 15TH ST- BSMT TUNNEL TO BLDG TO WEST	Tar Paper, Black	No	None Detected	Cellulose Fiber 40% Gypsum Binder/Filler 60%

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	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-085 A-84	BLDG 1-4 STORY BLDG E. 15TH ST- EXT.	LAYER 1 Brick, Red	No	None Detected	Quartz Gypsum Binder/Filler 100%
		LAYER 2 Mortar, White/ Gray	No	None Detected	Gypsum Quartz Carbonates Mica Binder/Filler 100%
0176832-086 A-85	BLDG 1-4 STORY BLDG E. 15TH ST- AROUND EXT. WINDOW FRAMES TO BRICK	Caulking, Black	Yes	Chrysotile 15%	Carbonates Quartz Binder/Filler 85%
0176832-087 A-86	BLDG 1-4 STORY BLDG E. 15TH ST- S. NEWER WINDOWS, METAL WINDOWS	Caulking, White/ Off White	No	None Detected	Cellulose Fiber <1% Silicone Gypsum Binder/Filler 99%
0176832-088 A-87	BLDG 1-4 STORY BLDG E. 15TH ST- S. SIDE	Caulking, White/ Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%

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Address:	803 RICKER ST	Date Received:	10/10/2016
	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0176832-089 A-88	BLDG 1-4 STORY BLDG E. 15TH ST- S. ENTRANCE DOOR	Caulking, White/ Off White	No	None Detected	Talc Cellulose Fiber Silicone Quartz Binder/Filler
					2% <1% 97%
0176832-090 A-89	BLDG 1-4 STORY BLDG E. 15TH ST- AROUND WINDOWS WEST SIDE	Caulking, Black	Yes	Chrysotile 10%	Carbonates Quartz Binder/Filler
					90%
0176832-091 A-90	BLDG 1-4 STORY BLDG E. 15TH ST- E. SIDE STORAGE DOCK	Fiberboard, Black/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler
					85% 15%
0176832-092 A-91	CRUSHER BLDG- CONTROL CENTER	LAYER 1 Ceiling Tile, White / Tan	No	None Detected	Cellulose Fiber Carbonates Binder/Filler
		LAYER 2 Paint/ Coating, White/ Off White Note: Difficult to separate adjacent layers	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler
					10% 90%
0176832-093 A-92	CRUSHER BLDG- EXT. DOOR ON CRUSHER BLDG	Caulking, Clear	No	None Detected	Cellulose Fiber Gypsum Quartz Binder/Filler
					1% 99%

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	WATERLOO IA 50703	Date Analyzed:	10/11/2016
Collected:	10/07/2016	Date Reported:	10/11/2016
Project Name:	BLUM PROPERTY	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	TRAVIS HAAS
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents		
0176832-094 A-93	CRUSHER BLDG	LAYER 1	Yes	Chrysotile	25%	Cellulose Fiber	5%
		Roofing, Black				Quartz Binder/Filler	70%
		LAYER 2	Yes	Chrysotile	30%	Cellulose Fiber	5%
		Roofing, Black				Quartz Carbonates Binder/Filler	65%
0176832-095 A-94	CRUSHER BLDG- ROOF	LAYER 1	No	None Detected		Cellulose Fiber	40%
		Roofing, Black				Quartz Binder/Filler	60%
		LAYER 2	Yes	Chrysotile	20%	Cellulose Fiber	10%
		Roofing, Black				Carbonates Binder/Filler	70%
0176832-096 A-49	ADDITIONAL LAYERS	LAYER 1	No	None Detected		Cellulose Fiber	30%
		Field, Black				Gypsum Binder/Filler	70%
		LAYER 2	Yes	Chrysotile	5%	Carbonates Binder/Filler	95%
		Field/ Paint, Silver/ Black Note: Difficult to separate adjacent layer				Cellulose Fiber	40%
0176832-097 A-50	ADDITIONAL LAYERS	LAYER 3	No	None Detected		Carbonates Binder/Filler	60%
		Field, Black				Cellulose Fiber	30%
		LAYER 1	No	None Detected		Gypsum Binder/Filler	70%
		Field, Beige/ Black				Cellulose Fiber	40%
		LAYER 2	No	None Detected		Carbonates Binder/Filler	60%
		Field, Black				Cellulose Fiber	40%

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NVLAP#101926-0

Client: ADVANCED ENVIRONMENTAL
Address: 803 RICKER ST
WATERLOO IA 50703
Collected: 10/07/2016
Project Name: BLUM PROPERTY
Address:

Job# / P.O. #: Z21857W-HAAS
Date Received: 10/10/2016
Date Analyzed: 10/11/2016
Date Reported: 10/11/2016
EPA Method: EPA 600/R-93/116
Submitted By: TRAVIS HAAS
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
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Analyst - Kenneth Scheske



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by the laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The 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. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-fabric organically bound materials.

JOB#:

Z21857W

NAME:

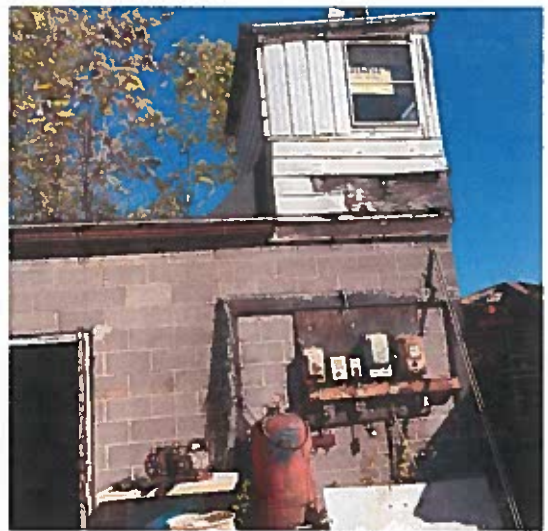
HR Green, Blum Property



15th St. Four Story Building



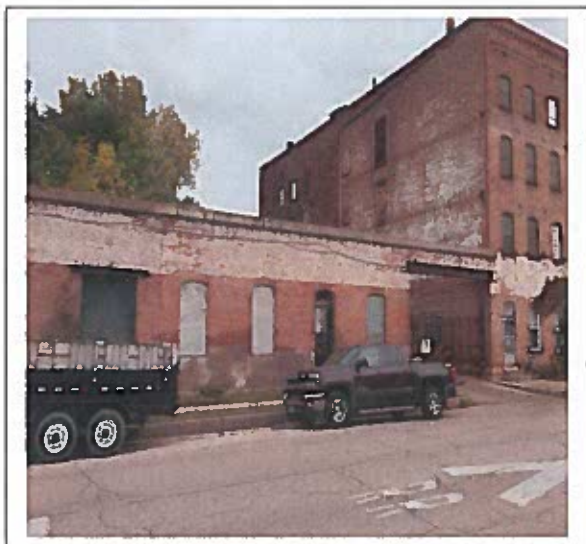
Elm St Four Story Building, and front wall



Crusher building



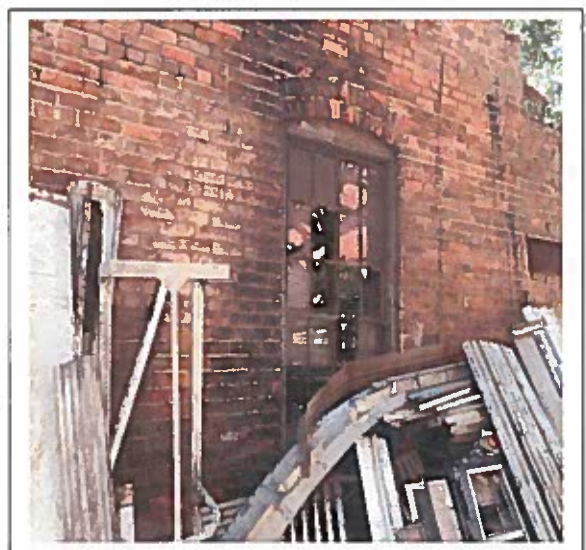
Building not inspected, Half collapsed and no access



Collapsed building on 15th St. One story remaining of the original four story building.



Remaining front and side walls of building torn down years ago. Window glazing positive on Elm St Windows North of wall opening to scrap yard.



A-3: Window glazing collapsed building.



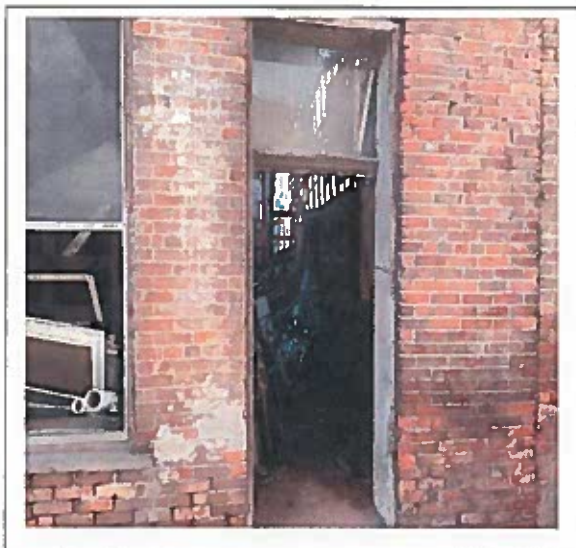
A-3: Window glazing debris in window sills of collapsed building. Windows gone except one window.



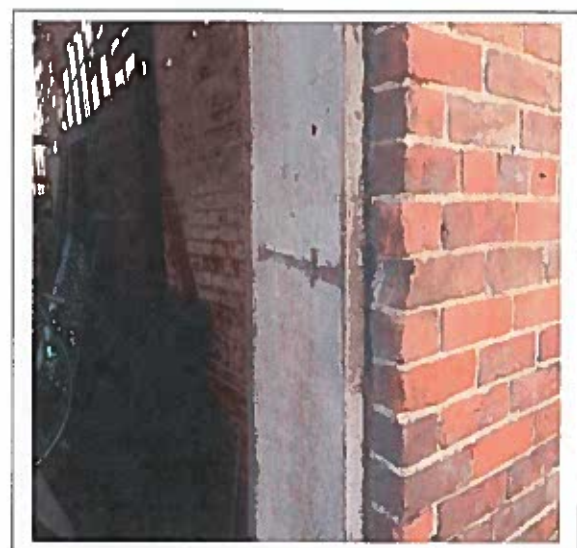
A-9: Caulking around Elm St. door, wood frame to brick.



A-9 Caulking around Elm St. door, close up picture.



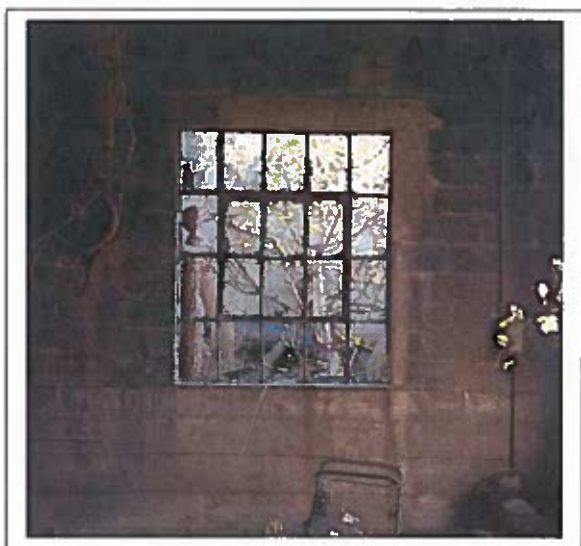
A-10: Black caulking around scale house side, side door of collapsed building. Caulking frame to brick.



A-10: Close up view.



A-15: Window glazing, old wood frames along Elm Street wall, covered by metal on the outside of the building.



A-18/19: Window glazing exterior windows of collapsed boiler building.



A-20/20A: Roof on south portion of boiler building. Debris throughout area.



A-20/20A: Roofing debris throughout south portion of the building.



A-20/20A: Roofing debris from south portion of building



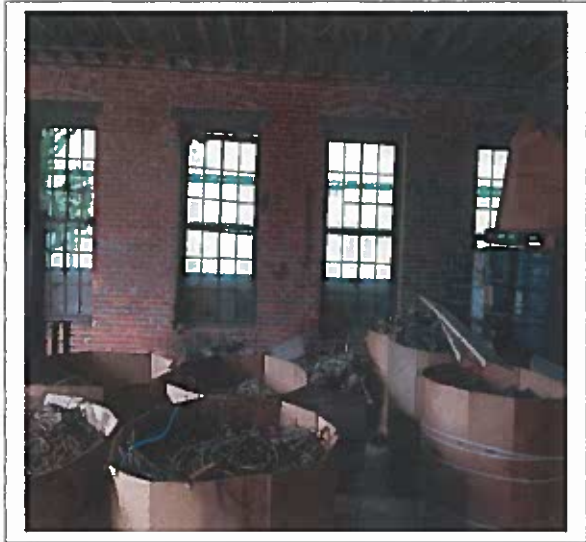
A-21/22: Flashing tar on Elm St. building from collapsed boiler building.



Boiler in building not inspected. Roof collapsed on top of boiler. Will need to be inspected prior to demolition



A-23: Tar paper from north section of collapsed building with boiler.



A-28: Window glazing older windows throughout Elm St. building



Stock piled windows with glazing, assumed positive.



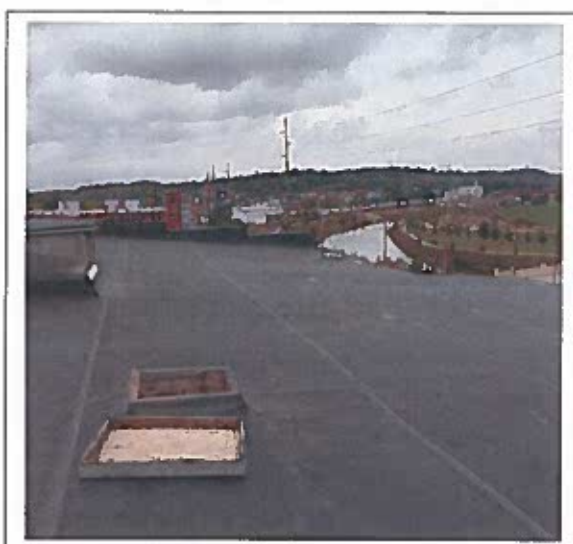
A-31, 32, 33, 35: Tar on metal roof, Elm st building.



A-31, 32, 33, 35: Tar on metal roof, Elm St. building.



A-35: Caulking interior windows (mainly 4th floor) wood frame to brick Elm St. building.



A-49: Roof on 15th St. building positive for asbestos under rubber roof.



A-51: Flashing, parapet walls Elm St. building. A=54: Tar above flashing on parapet wall.



A-70, 71, 73: Industrial tile front office and entry. 9x9 floor tile under industrial tile positive also. Mastic associated with tile positive