

Pre-Renovation Hazardous Building Materials Inspection Report

Residential Single Family Home
764 Edmund Avenue
Saint Paul, Minnesota

Prepared for

Ramsey County



Project B1602097.00
May 6, 2016

Braun Intertec Corporation

May 6, 2016

Project B1602097.00

Mr. Paul Scharf
Ramsey County
90 West Plato Boulevard
Saint Paul, MN 55107

Re: Pre-Renovation Hazardous Building Material Inspection Report
Residential Building
764 Edmund Avenue
Saint Paul, Minnesota

Dear Mr. Scharf:

The enclosed report provides the results of the pre-renovation hazardous building materials inspection conducted on April 12, 2016, at the residential building located at 764 Edmund Avenue in Saint Paul, Minnesota (Site). Braun Intertec Corporation was authorized to conduct this inspection in accordance with our Proposal QTB035378 dated March 15, 2016 and the Braun Intertec General Conditions.

The following outline provides the structure of the report.

- Scope of Services
- Site Description
- Results
- Discussion
- Limitations

If you have any questions or need further assistance, please call Justin Michael at 952.995.2617 or Stephen Luth at 952.995.2662.

Sincerely,

BRAUN INTERTEC CORPORATION


Justin P. Michael, GIT
Environmental Technician


Stephen A. Luth
Project Scientist

Attachments:

Pre-Renovation Hazardous Building Materials Inspection Report

AA/EOE

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A. Scope of Services

The scope of our services was limited to:

- Visually examine accessible areas and identify locations of suspect asbestos-containing material (ACM), lead, poly-chlorinated biphenyls (PCB), mercury, and other miscellaneous hazardous material.
- Collect and analyze representative bulk samples of materials suspected of containing asbestos.
- Conduct limited lead-based paint (LBP) testing of potential re-useable components with painted surfaces suspected of containing lead (where applicable). Testing will be accomplished using a Niton X-ray fluorescence (XRF) spectrum analyzer.
- Assign a hazard rating based on asbestos content with respect to the materials condition, friability, accessibility, and hazard potential.
- Document the various materials' current conditions and ACM quantities.
- Generate a final report documenting the sample locations, analysis results, conditions, ACM quantities and recommendations.

B. Site Description

The subject of the inspection is the residential building located at 764 Edmund Avenue in Saint Paul, Minnesota. The dwelling is a two level wood structure with a basement. It was constructed in 1890 and has a footprint that encompasses approximately 900 square feet. The dwelling is constructed of wood, concrete and concrete block foundation walls. The typical interior finishes included plaster, sheetrock/joint compound, floor tile, wall texture, ceiling texture, carpet, and vinyl sheet flooring. The exterior of the dwelling has vinyl and wood siding with an asphalt roof shingle roof system. The building was vacant and unoccupied at the time of the inspection.

C. Results

C.1. Asbestos

Twenty five (25) bulk samples were collected on April 12, 2016 and submitted to Pace Analytical, Inc. for analysis.

C.1.a. Asbestos-Containing Materials

The following is a summary of building materials found or assumed to contain greater than one percent asbestos (asbestos-containing materials by regulatory definition).

- 12x12" floor tile (tan), mottled, in the kitchen and laundry room contains 5 percent chrysotile.
- Sheet flooring brown and backing (white) in the second floor bathroom contains 40 percent chrysotile.
- 9" by 9" floor tile below the carpet on the second floor contains 7 percent chrysotile.
- Transite siding (tan) on the exterior of the garage contains 10 percent chrysotile.
- Shingle (White) – assumed (inaccessible)

C.1.b. Non-Asbestos-Containing Materials

The following is a summary of building materials found to contain no asbestos or materials that contain one percent or less asbestos (non-asbestos-containing materials by regulatory definition).

- Sheet Flooring (White) with Black Mastic
- Base Cove Mastic
- Drywall
- Plaster
- Ceiling Panel, faux 12" by 12", 2' by 4'
- Splatter Ceiling Texture
- Heavy Ceiling Texture
- Sheet Flooring, Brown and Tan Pebbled
- Window Glaze
- Shingle (Green)
- Shingle (Brown)
- Stone and Mortar

Refer to Table I in Appendix A, which lists individual functional spaces of the building, the suspect materials identified in that functional space, whether the suspect material was identified by analysis to be an asbestos-containing material, an estimated amount of each suspect material for the functional space, and includes condition, assessment categories and hazard ratings based on subjective observations made by our representatives.

Refer to Table II in Appendix B, which lists the homogenous material sample numbers, sample locations, suspect material descriptions, and the analysis results for each sample. This table summarizes the results from the Bulk Asbestos Laboratory Report, which is attached in Appendix D. A sample location map is attached as Appendix E.

Bulk asbestos analysis was conducted in accordance with the Environmental Protection Agency's (EPA) Method 40 CFR, Chapter 1, Part 763, Subpart F, and Appendix A (7/1/87 Edition).

C.2. Lead-Based Paint

Testing of limited building components for lead-based paint was accomplished utilizing a Niton XL X-Ray Fluorescence (XRF) field portable analyzer,

Model No. XLP303A - Serial No. 22287, equipped with a 40-milocurie CD-109 source - Serial No. TR3277, installed on March 17, 2015.

Analysis decision-making protocols were based on compliance with the United States (US) EPA and Minnesota Department of Health (MDH), which consider any x-ray fluorescence (XRF) result of 1.0 milligram per square centimeter (mg/cm²) or greater to be “lead-based paint.” The following is a list of lead-based paints that were found on the limited building components tested.

- Interior plaster ceiling in the laundry room.
- All exterior walls, behind metal siding.
- Basement stairwell – trim, joist sides and pipes.
- Basement interior wood white walls.

Note: The painted components were observed to be in poor to good condition at the time of the inspection.

Refer to Table III in Appendix C, which lists the sample numbers, sample locations, component descriptions, XRF field results, and the paint condition for each sample.

C.3. Miscellaneous Regulated Waste

A visual inspection for miscellaneous regulated waste materials that require separate handling and disposal prior to disturbance during building demolition was also performed as part of this assessment. The following is a list of items documented at the site:

C.3.a. Poly-Chlorinated Biphenyls (PCBs)

- None identified

C.3.b. Mercury

- Batteries – smoke detectors, emergency lighting, and security system.
- Heating – boiler controls, unit heater controls, thermostats
- Electrical Systems – electrical panels, load meters, supply relays, control switches.

C.3.c. Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs)

- None identified

C.3.d. Hazardous Waste

- None identified

C.3.e. Miscellaneous

- Water heaters
- Bathroom fans

D. Discussion

D.1. Asbestos-Containing Materials

D.1.a. Friable ACM

The following asbestos-containing materials are classified as friable materials according to EPA 40 CFR Part 61 National Emission Standard for Hazardous Air Pollutants (NESHAPs):

- Sheet Flooring, Brown and Tan Pebbled and white backing

The above friable ACM was observed to be in good condition at the time of our assessment. This material should be maintained in good condition to prevent potential exposure to asbestos. Friable ACMs are to be removed prior to disturbance by demolition in accordance with applicable state and federal regulations.

D.1.b. Category I Non-Friable ACM

The following asbestos-containing materials are classified as Category I non-friable materials according to EPA 40 CFR Part 61 National Emission Standard for Hazardous Air Pollutants (NESHAPs):

- 12 x 12" floor tile (tan)
- 9" by 9" Floor Tile
- Shingle (white) – assumed (inaccessible)

The above Category I non-friable ACM was observed to be in good condition at the time of our assessment. This material should be maintained in good condition to prevent potential exposure to asbestos. Category I non-friable ACMs are not considered a hazard unless cut, drilled, sanded, or otherwise abraded. However, any Category I material that may become friable during demolition must be removed prior to that activity. Category I materials in good condition may be left in place for demolition. However, if left in place, the crushing or recycling of demolition debris is strictly prohibited. In addition, all demolition debris containing Category I materials must be disposed of at a landfill specifically permitted to accept this type of waste.

D.1.c. Category II Non-Friable ACM

The following asbestos-containing materials are classified as Category II non-friable materials according to EPA NESHAPs:

- Transite Siding (garage)

The above Category II non-friable ACMs were observed to be in good condition at the time of our assessment. These materials should be maintained in good condition to prevent potential exposure to asbestos. Category II non-friable ACMs are not considered a hazard unless cut, drilled, sanded, or otherwise abraded. However, Category II non-friable ACMs that may become friable during demolition must be removed prior to that activity. In accordance with applicable state and federal regulations.

D.2. Lead-Based Paint

Building components with lead-based paint should be maintained in good condition. If lead-based paint is to be disturbed during renovation, contractors should follow “Lead Safe Work Practices” and the OSHA Lead in Construction Standard. If the building were to be demolished in its entirety, building components with lead paint are not required to be removed or disposed of as lead or hazardous waste. Any lead-based paint-containing demolition waste and/or debris generated during building renovation or demolition should be subject to proper handling and disposal, consistent with applicable regulations and requirements.

The U.S. OSHA Lead in Construction Standard 29 Code of Federal Regulations (CFR) 1926.62 applies to all situations where employees are engaged in the disturbance of lead-containing coatings, regardless of the quantity of lead involved. Therefore, any XRF result above 0.0 mg/cm² is considered “lead-containing coatings” in order to be in compliance with the OSHA standard. Demolition of the building may involve disturbing lead-containing coatings. Contractors should be informed of the presence of lead coatings and that they will be required to comply with the OSHA lead standard.

D.3. Miscellaneous Regulated Waste

In the case of building renovation/demolition, any of the miscellaneous regulated waste items listed in Section C.3 that will be disturbed, must be removed prior to disturbance and must be recycled or disposed of in accordance with state and federal guidelines.

E. Limitations

This inspection was limited to areas available for observation via non-destructive means. In any building, the potential exists for hazardous building materials to be located inside walls, above ceilings, under floors, and other inaccessible areas. Braun Intertec cannot be held responsible for the presence of any such hidden materials. In the case of building renovation/demolition, contractors involved in the project should be made aware of this potential. If previously unidentified suspect hazardous building materials are exposed during their activities they should be sampled and analyzed for content prior to any disturbance.

Note: A destructive ACM investigation is required by the MPCA prior to building renovation/demolition. It is recommended that the destructive ACM investigation is performed once the building is vacant.

Note: Various electrical systems were identified during the survey. These systems were believed to be currently “charged” and active. Suspect materials are located within these electrical boxes, control panels (breaker bars, insulation, and electrical wire insulation). For the purpose of this report, all electrical systems associated in these areas assessed are to be assumed to contain asbestos until proven otherwise by sampling and analysis.

Note: It is assumed that pipe insulation may be present in currently inaccessible chases, wall cavities, and above hard ceilings.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

F. Asbestos Inspector Certification

I, the undersigned, do hereby certify that I am an accredited Asbestos Inspector in the State of Minnesota. A photocopy of my current asbestos inspector certificate is attached in Appendix F.

Signature:  Date: May 6th, 2016
Justin P. Michael
Environmental Technician II
Minnesota Department of Health Asbestos Inspector No: AI12434

Signature:  Date: 5-6-2016
 Stephen A. Luth
Project Scientist
Minnesota Department of Health Asbestos Inspector No: AI10702

Appendix A

Table I. Asbestos Building Inspection Results

Table I. Asbestos Building Inspection Results

Client: Ramsey County Department of Development

Location: 764 Edmund Street

Date of Inspection: April 12, 2016

Project: B1602097.00

Functional Space	Homogeneous Material Description	Contains Asbestos (Yes/No)	Ref. Client Sample No. (See Table II)	Estimated Quantity Units	Material Condition ¹	Hazard Category ²
Kitchen	Sheet Flooring (White) with Black Mastic	No	1	300 square feet	D	0
Kitchen	12" by 12" Floor Tile with Black Mastic	Yes	2	300 square feet	D	3
Kitchen	Base Cove Mastic	No	3	50 linear ft	D	0
Kitchen	Drywall	No	4	400 square feet	D	0
Kitchen	Plaster	No	5	400 square feet	D	0
Laundry Room	Plaster	No	5	200 square feet	D	0
Laundry Room	Ceiling Panel, Phaux 12" by 12", 2' by 4'	No	6	60 square feet	D	0
Laundry Room	12" by 12" Floor Tile, Tan Mottled	Yes	2	60 square feet	D	3
Bathroom 1st Floor	Sheet Flooring (White) with Black Mastic	No	1	30 square feet	D	0
Bathroom 1st Floor	Drywall	No	4	150 square feet	D	0
Bathroom 1st Floor	Splatter Ceiling Texture	No	7A - 7E	150 square feet	D	0
Living/Dining Room	Heavy Ceiling Texture	No	8A - 8C	800 square feet	D	0
Living/Dining Room	Drywall	No	4	900 square feet	D	0
Stairwell Up to 2nd Level	Splatter Ceiling Texture	No	7A - 7E	200 square feet	D	0
Stairwell Up to 2nd Level	Drywall	No	4	200 square feet	D	0
2nd Level	Splatter Ceiling Texture	No	7A - 7E	2000 square feet	D	0
2nd Level	Drywall	No	4	2000 square feet	D	0
2nd Level	9" by 9" Floor Tile	Yes	14	750 square feet	D	3
2nd Level Bathroom	Splatter Ceiling Texture	No	7A - 7E	100 square feet	D	0
2nd Level Bathroom	Drywall	No	4	100 square feet	D	0
2nd Level Bathroom	Sheet Flooring, Brown and Tan Pebbled, with white backing	Yes	9	30 square feet	D	3

Table I. Asbestos Building Inspection Results

764 Edmund Street, St. Paul, Minnesota

B1602097.00

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Functional Space	Homogeneous Material Description	Contains Asbestos (Yes/No)	Ref. Client Sample No. (See Table II)	Estimated Quantity Units	Material Condition ¹	Hazard Category ²
Exterior	Window Glaze	No	10	30 linear ft	D	0
Exterior	Shingle (Green)	No	11	400 square feet	D	0
Exterior	Shingle (Brown)	No	12	400 square feet	D	0
Exterior	Shingle (White)		Assumed	800 square feet	D	
Garage	Transite Siding	Yes	15	800 square feet	D	3
Basement	Stone and Mortar	No	13	980 square feet	D	0

1. Condition of ACM:

ND = Not Damaged

D = Damaged

SD = Significantly Damaged

2. Hazard Category:

0 = No hazard - material does not contain asbestos

1 = ACM with potential for damage

2 = ACM with potential for significant damage

3 = Damaged or significantly damaged asbestos-containing miscellaneous material

4 = Damaged or significantly damaged friable asbestos-containing thermal system insulation

5 = Damaged or significantly damaged friable asbestos-containing surfacing material

Appendix B

Table II. Bulk Asbestos Analytical Results

Table II. Bulk Asbestos Analytical Results

Client: Ramsey County Economic Development
Location: 764 Edmund Street
Date of Inspection: April 13, 2016
Project: B1602097.00

Sample No.	Sample Location			Material	Asbestos Content (%) ¹
1	Kitchen			Sheet Flooring (White) with Black Mastic	None Detected
2	Kitchen			12" by 12" Floor Tile (tan, mottled) with Black Mastic	Chrysotile 5
3	Kitchen			Base Cove Mastic	None Detected
4	Kitchen			Drywall	None Detected
5A - 5E	Kitchen	Living Room		Plaster	None Detected
6	Laundry Room			Ceiling Panel, Phaux 12" by 12", 24" by 48"	None Detected
7A - 7E	Bathroom, 1st Floor			Splatter Ceiling Texture	None Detected
8A - 8C	Living and Dining Room			Heavy Ceiling Texture	None Detected
9	Bathroom, 2nd Floor			Sheet Flooring, Brown and Tan Pebbled and white backing	Chrysotile 40
10	Exterior			Window Glaze	None Detected
11	Exterior			Shingle (Green)	None Detected
12	Exterior			Shingle (Brown)	None Detected
13	Basement			Stone and Mortar	None Detected
14	Second Floor			9" by 9" Floor Tile	Chrysotile 7
15	Garage			Transite Siding	Chrysotile 10

* Materials containing 1 percent of asbestos or less are not considered to be asbestos-containing materials by the U.S.EPA.

1. Asbestos content is indicated as an approximate percent by area.

Appendix C

Table III. Lead-Based Paint Testing Results

Client: Ramsey County
Location: 764 Edmund Street, St. Paul, Minnesota
Date of Ins 12-Apr-16
Project #: B1602097.00

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
141	cal	DRYWALL	A	INTACT	WHITE				Positive	1.2	0.1	1.2	0.1 < LOD		0.63
142	cal	DRYWALL	A	INTACT	WHITE				Positive	1.1	0.1	1.1	0.1 < LOD		0.6
143	cal	DRYWALL	A	INTACT	WHITE				Positive	1.2	0.1	1.2	0.1 < LOD		0.75
144	WALL	DRYWALL	A	INTACT	WHITE	764 e	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03 < LOD		2.21
145	WALL	DRYWALL	B	INTACT	WHITE	764 e	FIRST	KITCHEN	Negative	< LOD	0.08	< LOD	0.08 < LOD		1.03
146	WALL	DRYWALL	C	INTACT	WHITE	764 e	FIRST	KITCHEN	Negative	< LOD	0.2	< LOD	0.2 < LOD		1.96
147	WALL	DRYWALL	D	INTACT	WHITE	764 e	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.7
148	CEILING	WOOD	D	INTACT	BROWN	764 e	FIRST	KITCHEN	Negative	< LOD	0.05	< LOD	0.05 < LOD		1.85
149	WINDOW	WOOD	C	INTACT	BROWN	764 e	FIRST	KITCHEN	Negative	< LOD	0.13	< LOD	0.13 < LOD		1.8
150	WINDOW	WOOD	C	INTACT	BROWN	764 e	FIRST	KITCHEN	Negative	< LOD	0.05	< LOD	0.05 < LOD		2.13
151	WINDOW	WOOD	C	INTACT	BROWN	764 e	FIRST	KITCHEN	Negative	< LOD	0.05	< LOD	0.05 < LOD		1.39
152	WINDOW	WOOD	C	INTACT	WHITE	764 e	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.53
153	WALL	DRYWALL	A	INTACT	YELLOW	764 e	FIRST	laundry	Negative	< LOD	0.03	< LOD	0.03 < LOD		2.01
154	WALL	DRYWALL	B	INTACT	YELLOW	764 e	FIRST	laundry	Negative	< LOD	0.09	< LOD	0.09 < LOD		1.95
155	WALL	DRYWALL	C	INTACT	YELLOW	764 e	FIRST	laundry	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.91
156	WALL	DRYWALL	D	INTACT	YELLOW	764 e	FIRST	laundry	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.71
157	CEILING	PLASTER	D	INTACT	YELLOW	764 e	FIRST	laundry	Positive	2.7	1.1	0.9	0.5	2.7	1.1
158	WINDOW	WOOD	B	INTACT	BROWN	764 e	FIRST	laundry	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.75
159	WINDOW	WOOD	B	INTACT	BROWN	764 e	FIRST	laundry	Negative	< LOD	0.03	< LOD	0.03 < LOD		2
160	WINDOW	WOOD	B	INTACT	BROWN	764 e	FIRST	laundry	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.71
161	WALL	DRYWALL	A	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.57
162	WALL	DRYWALL	B	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.8
163	WALL	DRYWALL	C	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.58
164	WALL	DRYWALL	D	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.82
165	CEILING	DRYWALL	D	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.03	< LOD	0.03 < LOD		1.89
166	DOOR	DRYWALL	D	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.15	< LOD	0.15 < LOD		1.64
167	DOOR	DRYWALL	D	INTACT	WHITE	764 e	FIRST	BATHROOM	Negative	< LOD	0.06	< LOD	0.06 < LOD		1.95

<LOD = Below the limit of detection

SIDE A= north, B= east, C= south, D= west

Client: Ramsey County
Location: 764 Edmund Street, St. Paul, Minnesota
Date of Ins 12-Apr-16
Project #: B1602097.00

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
168	WALL	DRYWALL	A	INTACT	WHITE	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.29
169	WALL	DRYWALL	B	INTACT	WHITE	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.31
170	WALL	DRYWALL	C	INTACT	WHITE	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.25
171	WALL	DRYWALL	D	INTACT	WHITE	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.2
172	CEILING	DRYWALL	D	INTACT	WHITE	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.35
173	WINDOW	WOOD	D	INTACT	BROWN	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.1	< LOD	0.1	< LOD	2.17
174	WINDOW	WOOD	D	INTACT	BROWN	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.3
175	TRIM	WOOD	C	INTACT	BROWN	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.01
176	TRIM	WOOD	C	INTACT	BROWN	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.06	< LOD	0.06	< LOD	1.74
177	DOOR	WOOD	A	INTACT	BROWN	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.12	< LOD	0.12	< LOD	2.17
178	DOOR	WOOD	A	INTACT	BROWN	764 e	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.87
179	WALL	DRYWALL	A	INTACT	BROWN	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.92
180	WALL	DRYWALL	A	INTACT	BROWN	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.63
181	WALL	DRYWALL	B	INTACT	BROWN	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.51
182	WALL	DRYWALL	B	INTACT	BROWN	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.17
183	WALL	DRYWALL	C	INTACT	WHITE	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.95
184	WALL	DRYWALL	C	INTACT	WHITE	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.31
185	WALL	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.42
186	WALL	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.5
187	CEILING	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.14
188	CEILING	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.6
189	WINDOW	WOOD	D	INTACT	BROWN	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.68
190	WINDOW	WOOD	D	INTACT	BROWN	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.82
191	WINDOW	WOOD	D	INTACT	YELLOW	764 e	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.36
192	WALL	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.92
193	WALL	DRYWALL	B	INTACT	WHITE	764 e	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.09
194	WALL	DRYWALL	C	INTACT	WHITE	764 e	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.89

<LOD = Below the limit of detection

SIDE A= north, B= east, C= south, D= west

Client: Ramsey County
Location: 764 Edmund Street, St. Paul, Minnesota
Date of Ins 12-Apr-16
Project #: B1602097.00

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
195	WALL	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.44
196	CEILING	DRYWALL	D	INTACT	WHITE	764 e	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.95
197	TRIM	WOOD	A	INTACT	WHITE	764 e	BASEMENT	STAIR	Positive	< LOD	46.65	< LOD	24.75	< LOD	46.65
198	pipe	METAL	A	INTACT	WHITE	764 e	BASEMENT	STAIR	Positive	< LOD	11.85	< LOD	11.7	< LOD	11.85
199	joist	WOOD	A	INTACT	GREEN	764 e	BASEMENT	STAIR	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.5
200	joist	WOOD	A	INTACT	GREEN	764 e	BASEMENT	STAIR	Positive	< LOD	17.4	< LOD	13.2	< LOD	17.4
201	WINDOW	WOOD	D	INTACT	GREEN	764 e	BASEMENT	STAIR	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.41
202	WALL	METAL	A	INTACT	TAN	764 e	FIRST	OUTSIDE	Positive	2.4	1.4	< LOD	0.8	2.4	1.4
203	WALL	METAL	B	INTACT	TAN	764 e	FIRST	OUTSIDE	Negative	< LOD	0.04	< LOD	0.04	< LOD	1.24
204	WALL	METAL	B	INTACT	TAN	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.08
205	WALL	WOOD	C	INTACT	BROWN	764 e	FIRST	OUTSIDE	Positive	2.6	1.6	< LOD	1.8	2.6	1.6
206	WALL	WOOD	C	INTACT	BROWN	764 e	FIRST	OUTSIDE	Positive	< LOD	3.6	< LOD	3.75	< LOD	3.6
207	WALL	WOOD	D	INTACT	BROWN	764 e	FIRST	OUTSIDE	Positive	1.6	0.6	< LOD	0.4	1.6	0.6
208	WALL	WOOD	D	INTACT	BROWN	764 e	FIRST	OUTSIDE	Positive	2.1	0.8	0.7	0.2	2.1	0.8
209	WALL	METAL	D	INTACT	TAN	764 e	FIRST	OUTSIDE	Positive	2.3	1.2	< LOD	1.05	2.3	1.2
210	WINDOW	WOOD	D	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.9
211	WINDOW	WOOD	D	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.8
212	WINDOW	WOOD	D	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.74
213	WINDOW	METAL	A	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.63
214	WINDOW	METAL	A	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.77
215	WINDOW	WOOD	A	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.65
216	WINDOW	METAL	B	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.73
217	WINDOW	METAL	B	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	1.05	< LOD	0.11	< LOD	1.05
218	WINDOW	WOOD	B	POOR	WHITE	764 e	FIRST	OUTSIDE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.95
219	WALL	METAL	A	INTACT	BEIGE	764 e	FIRST	GARAGE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.95
220	WALL	WOOD	A	INTACT	BROWN	764 e	FIRST	GARAGE	Negative	< LOD	0.07	< LOD	0.07	< LOD	1.25
221	DOOR	WOOD	A	INTACT	BROWN	764 e	FIRST	GARAGE	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.48

<LOD = Below the limit of detection

SIDE A= north, B= east, C= south, D= west

Client: Ramsey County
Location: 764 Edmund Street, St. Paul, Minnesota
Date of Ins 12-Apr-16
Project #: B1602097.00

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
222	DOOR	WOOD	B	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.2	< LOD	0.2	< LOD	2.22
223	WALL	METAL	B	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.89
224	DOOR	WOOD	B	INTACT	WHITE	764 e	FIRST	GARAGE	Negative	< LOD	0.09	< LOD	0.09	< LOD	1.93
225	DOOR	WOOD	B	INTACT	BROWN	764 e	FIRST	GARAGE	Negative	< LOD	0.4	< LOD	0.4	< LOD	2.25
226	DOOR	WOOD	B	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.64
227	soffit	WOOD	B	POOR	WHITE	764 e	FIRST	GARAGE	Negative	< LOD	0.23	< LOD	0.23	< LOD	1.5
228	WALL	METAL	C	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.85
229	WALL	transite	C	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.03	< LOD	0.03	< LOD	3.05
230	WALL	transite	D	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.07	< LOD	0.07	< LOD	2.54
231	WALL	METAL	D	INTACT	TAN	764 e	FIRST	GARAGE	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.6
232	WINDOW	WOOD	D	POOR	WHITE	764 e	FIRST	GARAGE	Negative	< LOD	0.11	< LOD	0.11	< LOD	1.54
233	WINDOW	WOOD	D	POOR	WHITE	764 e	FIRST	GARAGE	Negative	< LOD	0.16	< LOD	0.16	< LOD	1.95
234	WINDOW	WOOD	D	POOR	BROWN	764 e	FIRST	GARAGE	Negative	< LOD	0.14	< LOD	0.14	< LOD	1.82
235	WINDOW	WOOD	D	POOR	BROWN	764 e	FIRST	GARAGE	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.41
236	cal		D	POOR	BROWN	764 e	FIRST	GARAGE	Positive	1.1	0.1	1.1	0.1	< LOD	0.4
237	cal		D	POOR	BROWN	764 e	FIRST	GARAGE	Positive	1.2	0.1	1.2	0.1	< LOD	0.9
238	cal		D	POOR	BROWN	764 e	FIRST	GARAGE	Positive	1.2	0.1	1.2	0.1	< LOD	0.9

<LOD = Below the limit of detection

SIDE A= north, B=east, C= south, D=west

Appendix D

Bulk Asbestos Analysis Reports

Floor plan of the 7th floor. The plan shows a large central corridor running vertically. To the left of the corridor, there are several rooms. Room 7C is located at the top left. Room 7D is located to the right of the central corridor. Room 7E is located at the bottom left. Room 9 is located in the middle left, labeled as a BATHROOM. A staircase is located to the right of room 7C. The plan also shows a large open area at the bottom left, possibly a lobby or common area.

The floor plan shows a house with the following rooms and features:

- BATHROOM**: Located at the top left, containing point **7A**.
- LAUNDRY**: Located below the bathroom, containing points **6** and **4**.
- KITCHEN**: Located to the right of the laundry, containing point **3**.
- STAIRS TO BASEMENT**: Located between the laundry and the main stairs, containing point **7B**.
- STAIRS**: A large central staircase containing points **5A** and **5B**.
- LIVING ROOM**: Located at the bottom right, containing points **5C** and **8B**.
- FRONT DOOR**: Located at the top center, with point **10** just outside it.
- Other points**: **1** and **2** are outside the kitchen; **5D** is on the left wall; **8A** is on the bottom left wall; **5E** is on the bottom left wall near the living room.

NOTE: SAMPLE 11 AND 12 COLLECTED FROM ROOF OF THE STRUCTURE
SAMPLE 13 COLLECTED IN THE BASEMENT
SAMPLE 15 COLLECTED FROM GARAGE ON SOUTHERN PORTION OF THE LOT



Project No:	B1602097.00
Drawing No:	B1602097-00
Scale:	NONE
Drawn By:	REJ
Date Drawn:	4/19/16
Checked By:	JPM
Last Modified:	5/5/16

SAMPLE LOCATION SKETCH
PRE-DEMO HAZMAT
TWO LEVEL SINGLE FAMILY DWELLING
764 EDMUND AVENUE
ST. PAUL, MINNESOTA

BRAUN
INTERTEC
The Science You Build On.
11001 Hampshire Avenue S
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020

Appendix E

Sample Location Sketch



Mr. Steve Luth
Braun Intertec-Bloomington
11001 Hampshire Ave. South
Bloomington, MN 55438

April 20, 2016

Work Order #: 1600963

RE: B1602097.00-764 Edmund Street
B1602097.00

Page 1 of 7

Dear Steve Luth:

Bulk Asbestos Analysis Report

The microscopy department of Pace Analytical Services, Inc. received your analytical request on April 15, 2016. The sample(s) were analyzed in the Pace Industrial Hygiene laboratory unless otherwise noted. The objective of this analysis was to determine the presence of asbestos using polarized light microscopy (PLM) and to determine the percent of asbestos and non-asbestos fibrous components by calibrated visual area estimation. Analytical results are summarized on the following laboratory report.

Methodology

Bulk asbestos analysis is conducted in accordance with the Environmental Protection Agency's (EPA) methods 40 CFR, Part 763, Ch. 1, Subpart F, Appendix A (7-1-87 Edition) and EPA/600/R-93/116. All analyses are in compliance with the quality control procedures specified by the methods. All samples are examined for homogeneity. If a sample contains more than one layer, each layer is analyzed individually. Total fibrous content is calculated for joint compound/wallboard systems by combining layer results according to their percentages of the total sample. All routine quality assurance procedures were followed, unless otherwise noted.

Remarks

This test report relates only to the items submitted for analysis.

Samples are retained at our laboratory for a period of 30 days and will be disposed of unless otherwise instructed by the client.

This report can not be copied, except in its entirety, without prior written permission from Pace Analytical Services, Inc.

We appreciate your decision to use Pace Analytical Services, Inc. for this project. We are committed to being your vendor of choice to meet your analytical needs.

If you have any questions please contact me at 612-607-6457.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Pivec".

Michelle Pivec For Kevin R. Osborn
Project Manager

A handwritten signature in black ink, appearing to read "Kevin R. Osborn".

Kevin R. Osborn
Microscopist

Client ID: 1		Sample No: 1600963-01				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Flooring	4	100	-	-	-	04/20/16
White vinyl	(A)	15	9,10	None Detected	None Detected	
Tan fibrous backing	(B)	15	3	Cellulose 60 Synthetic Fibers <1	None Detected	
Yellow adhesive	(C)	1	1,7	Cellulose <1	None Detected	
Brown vinyl	(D)	69	3,9	Cellulose 60	None Detected	

Client ID: 2		Sample No: 1600963-02				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Floor tile with mastic	2	100	-	-	-	04/20/16
Tan floor tile	(A)	97	1,3,9	None Detected	Chrysotile 5	
Black mastic	(B)	3	1,7	Cellulose <1	None Detected	

Client ID: 3		Sample No: 1600963-03				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Baseboard with adhesive	2	100	-	-	-	04/20/16
White vinyl	(A)	95	1,3,9	None Detected	None Detected	
Yellow adhesive	(B)	5	1,7	None Detected	None Detected	

Client ID: 4		Sample No: 1600963-04				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Sheetrock	2	100	1,3	Cellulose 3	None Detected	04/20/16
Brown paper	(A)	1	3	Cellulose 95	None Detected	
White chalky	(B)	99	1,3	Cellulose 2	None Detected	

Client ID: 5A		Sample No: 1600963-05				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White/gray granular	1	100	1,3,11	Cellulose <1 Hair <1	None Detected	04/20/16

Client:	Braun Intertec-Bloomington	Laboratory:	Pace Analytical Services, Inc. (IH Laboratory)	Date Reported:	4/20/2016
Log-In:	04/15/16	Lab Contact:	Michelle Pivec For Kevin R. Osborn	Page 3 of 7	
Client Reference:	B1602097.00-764 Edmund Street	PO Number:	B1602097.00		

Client ID: 6		Sample No: 1600963-06				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Tan fibrous ceiling tile with paint	1	100	3,6,11	Cellulose 60 Glass Fibers 10	None Detected	04/20/16
Client ID: 7A		Sample No: 1600963-07				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White texture	1	100	1,2,3,11	None Detected	None Detected	04/20/16
Client ID: 7B		Sample No: 1600963-08				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White texture	1	100	1,2,3,11	None Detected	None Detected	04/20/16
Client ID: 7C		Sample No: 1600963-09				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White texture	1	100	1,2,3,11	Cellulose <1	None Detected	04/20/16
Client ID: 7D		Sample No: 1600963-10				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White texture	1	100	1,2,3	None Detected	None Detected	04/20/16
Client ID: 7E		Sample No: 1600963-11				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White texture	1	100	1,2,3,11	Cellulose <1	None Detected	04/20/16
Client ID: 8A		Sample No: 1600963-12				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White micaceous texture	1	100	1,2,3	None Detected	None Detected	04/20/16

Client ID:	8B	Sample No:	1600963-13
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White micaceous texture	1	100	1,2,3,11	None Detected	None Detected	04/20/16

Client ID:	8C	Sample No:	1600963-14
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White micaceous texture	1	100	1,2,3,11	None Detected	None Detected	04/20/16

Client ID:	9	Sample No:	1600963-15
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Flooring	2	100	-	-	-	04/20/16
Black/brown floor tile	(A)	60	1,3,9	None Detected	None Detected	
White fibrous	(B)	40	3	Cellulose 10	Chrysotile 40	

Client ID:	10	Sample No:	1600963-16
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White rubbery	1	100	1,3	None Detected	None Detected	04/20/16

Client ID:	11	Sample No:	1600963-17
------------	----	------------	------------

Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Black fibrous tarry with stones	1	100	1,8	Cellulose 20	None Detected	04/20/16

Client ID:	12	Sample No:	1600963-18
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Black fibrous tarry with stones	1	100	1,8	Glass Fibers 10	None Detected	04/20/16

Client ID:	13	Sample No:	1600963-19
------------	----	------------	------------

Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Gray granular	1	100	1,3	None Detected	None Detected	04/20/16

Client ID: 14		Sample No: 1600963-20				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Flooring	3	100	-	-	-	04/20/16
Gray floor tile	(A)	50	1,3,9	None Detected	Chrysotile 7	
Black fibrous tarry	(B)	25	8	Cellulose 60	None Detected	
Brown fibrous	(C)	25	3	Cellulose 95	None Detected	

Client ID: 15		Sample No: 1600963-21				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White fibrous cementitious	1	100	1,3,11	None Detected	Chrysotile 10	04/20/16

Footnotes and Definitions

<	Less Than	* Key to Non-Fibrous Components				
>	Greater Than					
		1 = Rock/Mineral fragments	5 = Diatoms	9 = Vinyl	13 = Spores/Pollen	
		2 = Mica/Vermiculite	6 = Perlite	10 = Foam/Rubber	14 = Foil	
		3 = Binders	7 = Adhesive/Mastic	11 = Paint		
		4 = Opaques	8 = Tar	12 = Other		

Date Reported: 4/20/2016
Page 6 of 7



Pace Analytical®
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1 <div style="font-size: 2em; font-weight: bold; text-align: center;">1988330</div>	
Company: Brown Enterprises		Report To: Steve Leth		Attention:			
Address:		Copy To:		Company Name:		REGULATORY AGENCY	
				Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Email To: Sulphur Springs Inter-Local		Purchase Order No.:		Pace Quote Reference:		Site Location	
Phone: Fax:		Project Name: 2/16/2017-02.04.02		Pace Project Manager:		STATE: MN	
Requested Due Date/TAT:		Project Number: See Addresses		Pace Profile #:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Analysis Test 1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
			DATE	TIME	DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other							
																	COMPOSITE START		COMPOSITE END/GRAB				
																	MATRIX CODE	SAMPLE TYPE	(see valid codes to left)				G=GRAB C=COMP
1	B/L 2097 - See Attach Table II	DW	-	-	4.12.16			X															
2	B/L 2097.00 - See Attach Table II	WT			4.12.16			X															
3	B/L 2097.01 - "	WW			4.12.16			X															
4	B/L 2097.02 - "	P	-	-	4.13.16			X															
5		SL																					
6		OL																					
7		WP																					
8		AR																					
9		TS																					
10		OT																					
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JPM/Brown			Kelsey Boigenzahn	4/15/16	1125	

SAMPLE ID NAME AND SIGNATURE

Appendix F

Asbestos Inspector Certificate

Certificate No: 5LM080515061R

Expiration Date: August 5, 2016

This is to certify that
Justin Michael

has attended and successfully completed an

ASBESTOS INSPECTOR

REFRESHER TRAINING COURSE

permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722

and meets the requirements of

Section 206 of Title II of the Toxic Substances Control Act (TSCA)

conducted by

Lake States Environmental, Ltd.

White Bear Lake, MN on August 5, 2015

Examination Date: August 5, 2015

Lake States Environmental, Ltd
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811


Training Inspector



MDH ASBESTOS
INSPECTOR

Certified by:
State of Minnesota
Department of Health
Expires: 08/05/2016

Justin P. Michael
3150 Excelsior Blvd Unit #214
Minneapolis, MN 55416

Director, Env. Health Div.

No. A112434 Issued: 09/11/2015



ASBESTOS
INSPECTOR

Certified by:
State of Minnesota
Department of Health

Expires: 01/28/2017

Stephen A Luth
6598 154th St W
Apple Valley, MN 55124

Stephen A. Luth
Director, Env. Health Div.

No. A110702

Issued: 02/12/2016