AllPhase Companies, Incorporated
404-A St. Croix Trail North, Lakeland, MN 55043
Phone: 651-436-2930 Fax: 651-436-3918

June 2, 2016

Beth Ulrich
Project Manager
Dept. of Planning and Economic Development
1400 City Hall Annex, 25 West 4th Street
Saint Paul, MN 55102

RE: Asbestos Survey
700 Maryland Avenue, St. Paul, MN
1596-16S-1

Dear Ms. Ulrich:

AllPhase Companies, Incorporated, (AllPhase) performed an asbestos survey at the above referenced site in connection with a demolition in order to identify asbestos-containing material (ACM)—that is, material with greater than 1% asbestos by volume. The following report contains the results of the survey performed at the above referenced site.

In summary, 24 samples of building materials were collected and analyzed for asbestos type and amount.

Asbestos was not detected above 1 percent in any of the 24 samples submitted.

Friable ACM is defined by the Asbestos NESHAP, as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. (Sec. 61.141)

Nonfriable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Supbart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. EPA also defines two categories of nonfriable ACM, Category I and Category II nonfriable ACM, which are described later in this guidance.

"Regulated Asbestos-Containing Material" (RACM) is (a) friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Refer to the asbestos Laboratory Report and chain of custody for other building materials tested and their locations.

This survey is an attempt to identify ACM. The above ACM volumes and locations are based solely upon the analytical results of the material collected from the referenced building structure and the observations made by the inspector at the time of the asbestos survey. However, there is no guarantee that all potential ACM was identified. If suspect ACM is discovered during demolition or remodeling and is not listed in this or previous surveys, work on that portion of the building should cease, the material wetted and covered, and an asbestos inspector brought to the site to collect a representative sample and submit to a certified laboratory to determine its asbestos content. Pending analytical results, an abatement crew should remove the ACM before work continues. The above ACM volumes and locations are based solely upon the analytical results of the material collected from the referenced building structure and the observations made by the inspector at the time of the asbestos survey.

INTRODUCTION

The scope of our services was to conduct an asbestos survey, which includes collecting a small portion of the building materials and submitting the sample to a certified laboratory for analysis by PLM. Analysis only assesses the portion of building material collected and submitted.

A. Collect bulk samples of suspect ACMs for laboratory analysis.
B. Analyze the collected samples for asbestos content.

Minnesota requires surveys to be performed by a Minnesota Certified Inspector. This survey was conducted by David Jenkin – Asbestos Inspector #AI8101.

Samples of suspect ACMs were collected by AllPhase by removing a small portion of the suspect material and then placing the individual samples into separate sealed containers.

DISCLAIMERS

Asbestos surveys do not necessarily succeed in identifying all locations and types of ACM on-site. This is because of the variety of locations and the inconsistency of asbestos occurrence in a given building material. Our survey is based solely upon the building materials that were observed and sampled for analysis. Therefore, if unsampled building materials are encountered during the demolition, they should be assessed on a material-by-material basis. If suspect ACM is observed which has not been listed in our evaluation, it should be collected and evaluated by a certified individual and laboratory, respectively. If there is a potential for that material to be ACM, work should stop until the question of asbestos content and/or abatement is resolved in a manner that protects human health and the environment and abides by regulatory guidelines.

Certain building materials are not considered suspect ACM and are not sampled as part of the survey. These materials include but are not limited to wood, concrete (with exceptions), plastics such as polyethylene, polystyrene and polyvinylchloride, fiberglass, rubber (natural and neoprene—black synthetic), foam insulation, metals and glass.

METHODOLOGY

Building materials were analyzed by a NVLAP-accredited laboratory, #101768-0. Laboratory analysis was conducted in accordance with Environmental Protection Agency (EPA) guidelines. The examination for the presence and identification of asbestos fibers in bulk samples is performed in the laboratory using cross-polarized light microscopy and dispersion-staining, particle-identification techniques. Analysis was performed in accordance with EPA 600/M4-82-020 and EPA 600/R-93/116 where applicable. This methodology determines the presence of asbestos varieties, which include Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and Actinolite.

REMARKS

Some of the rules and regulations set by the Environmental Protection Agency (EPA) may apply when the existence of ACMs is confirmed. A complete review of these rules can be found in Part 3 of the Federal Register EPA, 40 CFR Part 61. Summaries of these rules are as follows:

> According to §61.145 of NESHAPS, friable ACMs must be removed from the site prior to demolition. This includes materials that were originally non-friable but have become friable—that is, Category I & II material—due to damage or deterioration—for example, floor tile that has significant chipping or cracking. The necessity for the removal of Category I and II material is evaluated on a site-by-site basis.

Disturbing ACM may require that the Minnesota Pollution Control Agency and/or the Minnesota Department of Health be notified prior to activities with asbestos.

The environmental services performed by AllPhase's survey crew and analyst for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed. No other warranty is intended or implied.

Rennie Smith, P.G.
Asbestos Inspector (#AI3119)

David Jenkin, P.G.
Asbestos Inspector (#AI8101)

EMLab P&K
A TestAmerica Company

Report for:

Rennie Smith
AllPhase Companies, INC
404A St Croix Trail N
Lakeland, MN 55043

Regarding: Project: 700 Maryland Ave; St. Paul
EML ID: 1544941

Approved by:

Approved Signatory
Balu Krishnan

Dates of Analysis:
Asbestos PLM: 05-31-2016

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

EMLab P&K
3000 Lincoln Drive East, Suite A, Marlton, NJ 08053
(866) 871-1984 Fax (856) 334-1040 www.emlab.com

Client: AllPhase Companies, INC
C/O: Rennie Smith
Re: 700 Maryland Ave; St. Paul

Date of Submittal: 05-23-2016
Date of Receipt: 05-25-2016
Date of Report: 05-31-2016

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	16
Total Samples Analyzed:	16
Total Samples with Layer Asbestos Content > 1%:	0

Location: 1M, 1x1 F.T. Utility Rm Lab ID-Version‡: 7163922-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Yellow Mastic /Brown Wood	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 2M, 1X1 F.T. Show Rm Lab ID-Version‡: 7163923-1

Sample Layers	Asbestos Content
White Floor Tile /Yellow Mastic	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 3M, 1X1 F.T. NW Co Lab ID-Version‡: 7163924-1

Sample Layers	Asbestos Content
White Floor Tile /Yellow Mastic	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 4M, 2X4 C.T. So Sde Lab ID-Version‡: 7163925-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	50% Cellulose 25% Mineral Wool
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 5M, 2X4 C.T. No Side Lab ID-Version‡: 7163926-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	50% Cellulose 30% Mineral Wool
Sample Composite Homogeneity:	Moderate

Location: 6M, 1X1 C.T. Above 2X4 Lab ID-Version‡: 7163927-1

Sample Layers	Asbestos Content
Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	85% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 7M, Plaster Above 1X1 C.T. Lab ID-Version‡: 7163928-1

Sample Layers	Asbestos Content
White Plaster	ND
Beige Paint /Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 8M, Ceiling Ins NE Side Lab ID-Version‡: 7163929-1

Sample Layers	Asbestos Content
Yellow Foam Insulation	ND
Composite Non-Asbestos Content:	2% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 9M, Text Ceiling NE Side Lab ID-Version‡: 7163930-1

Sample Layers	Asbestos Content
White Paint /Off White Ceiling Texture	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 10M, Text Ceiling NE Side Lab ID-Version‡: 7163931-1

Sample Layers	Asbestos Content
White Paint /Off White Ceiling Texture	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 11M, Text Ceiling SE Rm Sw Lab ID-Version‡: 7163932-1

Sample Layers	Asbestos Content
White Paint /Off White Ceiling Texture	ND
Off-White Drywall	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 12M, Text Ceil Swirl SE Lab ID-Version‡: 7163933-1

Sample Layers	Asbestos Content
White Paint /White Ceiling Texture	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 13M, Text Wall by Bathrm Lab ID-Version‡: 7163934-1

Sample Layers	Asbestos Content
White Paint /White Ceiling Texture	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 14M, Text Wall by back door Lab ID-Version‡: 7163935-1

Sample Layers	Asbestos Content
White Paint /White Ceiling Texture	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 15M, Text Wall NE Corner Lab ID-Version‡: 7163936-1

Sample Layers	Asbestos Content
White Paint /White Ceiling Texture	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	3% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 16M, Roofing Shingle Lab ID-Version‡: 7163937-1

Sample Layers	Asbestos Content
Black Roofing Shingle /Green Pebbles	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1984
Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

001544941

CONTACT INFORMATION

Company:	AllPhase Co.	Address:	404 St. Croix Tl N.
Contact:	Ronnie Smith	Special Instructions:	Lakeland MN
Phone:	612-325-3061		

PROJECT INFORMATION

Project ID:	700 Maryland Ave		
Project Description:	St. Paul		
Project Zip Code:		Sampling Date & Time:	
PO Number:		Sampled By:	

TURN AROUND TIME CODES (TAT)

- STD – Standard (DEFAULT)
- ND – Next Business Day
- SD – Same Business Day Rush
- WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Requests — Non-Culturable: Spore Trap; Tape / Swab / Bulk; BioC... / Wat...

Analyses: Fungi – Spore Trap Analysis; Spore Trap Analysis – Other particles; Direct Microscopic Exam (Qualitative); Quantitative Spore Count Direct Exam; 1-Media Surface Fungi (Genus ID + Asp. spp.); 2-Media Surface Fungi (Genus ID + Asp. spp.); 3-Media Surface Fungi (Genus ID + Asp. spp.); Culturable Air Fungi (Genus ID + Asp. spp.); Gram Stain & Counts (Culturable Air & Surface Bacteria); Legionella culture; Total Coliform, E. coli (Presence/Absence); Membrane Filtration (specify organism); MPN Bacteria (specify organism); QuantiTray – Sewage Screen; Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400); Asbestos Analysis – PLM (EPA method 600/R-93-116); PCR (specify test)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	Asbestos Analysis – PLM (EPA method 600/R-93-116)
1M	1X1 F.T. Utility Rm	B	STD			✓
2M	" " Shower Rm	↓	↓			↓
3M	" " NW Corner	↓	↓			↓
4M	2X4 C.T. So Side	↓	↓			↓
5M	" " No Side	↓	↓			↓
6M	1X1 C.T. above 2X4	↓	↓			↓
7M	Plaster above 1X1 C.T. "	↓	↓			↓
8M	Ceiling Tiles NE Side	↓	↓			↓
9M	Text Ceiling NE Side	↓	↓			↓
10M	" " " "	↓	↓			↓
11M	" " SE Rm Swirl	↓	↓			✓

SAMPLE TYPE CODES			
BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Anderson		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	5-23-16	[signature]	5/25/16 10:18

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

Weather		Fog	Rain	Snow	Wind	Clear
Level	None	☐	☐	☐	☐	☐
	Light	☐	☐	☐	☐	
	Moderate	☐	☐	☐	☐	
	Heavy	☐	☐	☐	☐	

001544941

CONTACT INFORMATION

Company: AllPhase Co.
Contact: Rennie Smith
Phone:
Address: 404 St. Croix Vale N
Special Instructions: Lakeland MN 55043

PROJECT INFORMATION

Project ID: 700 Maryland Ave
Project Description: St Paul
Project Zip Code:
Sampling Date & Time:
PO Number:
Sampled By:

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

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Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
12M	Text Ceiling Swirl SEbr		STD		
13M	" wall by bathroom	B	↓		
14M	" " by backdoor	↓	↓		
15M	" " NE corner	↓	↓		
16M	Roofing Shingle	↓	↓		

Requests

Sample ID	Non-Culturable: Spore Trap: Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Tape Swab Bulk: Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
12M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
13M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	↓	☐	☐
14M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	↓	☐	☐
15M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	↓	☐	☐
16M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
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	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

SAMPLE TYPE CODES

BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Anderson		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	5-23-16		5/25/16 10:12

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/s/main/serviceterms.html