

May 11th, 2018

CM3 File No. TLW-1928

Ms. Marilyn Steinburg Property Owner – 22 Hawthorne Avenue 1425 Doctor Penfield Avenue Montreal, Quebec H3G 2V1 Mr. David Cutler Victor Ages Vallance LLP 112 Lisgar Street Ottawa, Ontario K1Y 0N1

# Pre Demolition Designated Substance Survey 24 Hawthorne Avenue Ottawa, Ontario

### **Summary**

CM3 Environmental (CM3) was commissioned by David Cutler of Victor Ages Vallance LLP on behalf of Marilyn Steinburg to conduct a Pre-Demolition Designated Substance Survey (DSS) of the residence located at 24 Hawthorne Avenue in Ottawa, Ontario (Site). Specifically, CM3 obtained bulk building material samples of suspected asbestoscontaining materials (ACMs) throughout the house. The work was completed to satisfy the requirements of Section 30 Ontario Occupational Health and Safety Act (OSHA) and Ontario Regulation 278/05 "Regulation Respecting Asbestos on Construction Projects



and in Buildings and Repair Operations" (O.Reg. 278/05) prior to the planned demolition. The report must be referenced in its entirety when extracting data or results of the assessment.

Joel Marcellus of CM3 completed the site investigation and sampling on April 30<sup>th</sup>, 2018. Based on the findings of the visual inspection, suspect materials were documented, collected and subsequently submitted for analysis at a 3<sup>rd</sup> party analytical laboratory.

# **Scope of Work**

The scope of this project was to determine the location, condition, quantity and type of hazardous materials present in the work area. The surveyors include building structural components, finishes, mechanical and electrical systems. For the purposes of this project, the following designated substances are included in the assessment:

- Asbestos
- Lead
- Mercury
- Silica

File: TLW 1928

The remaining designated substances are not typically found in the construction of buildings of this type, and are usually exclusive to industrial processes, and are therefore not included as part of this report (Ethylene Oxide, Vinyl Chloride, Benzene, Arsenic, Coke Oven Emissions, Acrylonitrile, Isocyanates).

A summary of the other designated substances and hazardous materials is provided in **Appendix A**.

In addition, the following Hazardous Building Materials are not Designated Substances regulated by 490/09, but could pose a significant risk to health and safety of workers, occupants, and the environment are included as part of this report. The Ministry of Labour (MOL) recognizes them as workplace hazards and enforces worker protection under the General Duty Clause 25(2)(h) of the OHSA. Clause 25(2)(h) states that the employers are required to "take every precaution reasonable in the circumstances for the protection of a worker". In such cases the MOL will refer to industry standards and guidelines for the safe handling and management of such materials.

- Polychlorinated Biphenyls (PCBs); and,
- Ozone Depleting Substances (ODSs).

The scope did not include personal items or equipment (owner or occupant), buried or underground services or areas requiring significant demolition to assess. Wall and ceiling cavities were accessed wherever possible.

#### **Asbestos**

The presence of asbestos was primarily assessed by visual inspection. Based on the visual assessment suspect materials were selected for laboratory analysis in accordance with O.Reg. 278/05.

CM3 collected forty-seven (47) representative samples from thirteen (13) distinct types of materials that were suspected to contain asbestos. Potential ACMs sampled during the designated substance survey included wall and ceiling plaster, ceiling texture coat, drywall joint compound, two (2) styles of ceiling stipple, interior caulking, exterior caulking, brick, brick mortar, cinder block, cinder block mortar, foundation parging cement and asphalt shingles. The samples were submitted to EMSL Canada Inc. of Ottawa, ON, for asbestos analysis via polarized light microscopy (PLM) on a regular turnaround basis.

The analytical results are presented in *Appendix B* and are summarized in the following table:

Table 1: Summary of Laboratory Analytical Results - Asbestos Containing Materials

Table 11 C	Table 1. Odininary of Eaboratory Analytical flesuits - Asbestos Containing Materials									
Sample ID	Material	Material Location		Asbestos Concentration						
PLA-01A-E	Plaster Finishes	Throughout	Non-Friable	None Detected						
TEX-01A-E	Ceiling Texture Coat	Throughout	Non-Friable	None Detected						
DJC-01A-E	Drywall Joint Compound	Throughout	Non-Friable	None Detected						
ST-01A-C	Ceiling Stipple	Master Bedroom	Non-Friable	None Detected						

Sample ID	Material	Location	Friability	Asbestos Concentration
ST-02A-C	Ceiling Stipple	Basement	Non-Friable	None Detected
CLK-01A-C	Caulking (White)	Interior	Non-Friable	None Detected
CLK-02A-C	Caulking (White)	Exterior	Non-Friable	None Detected
BR-01A-C	Brick	Exterior	Non-Friable	None Detected
BRM-01A-C	Brick Mortar	Exterior	Non-Friable	None Detected
CB-01A-C	Cinder Block	Exterior	Non-Friable	None Detected
CBM-01A-C	Cinder Block Mortar	Exterior	Non-Friable	None Detected
FP-01A-C	Foundation Parging	Exterior	Non-Friable	None Detected
AS-01A-C	Asphalt Shingle	Exterior	Non-Friable	None Detected

File: TLW 1928

The analytical report indicated that asbestos was not detected in any of the samples collected from the residence and submitted for analysis. Therefore the materials are not subject to the procedures outlined in O.Reg 278/05.

Analytical results are provided in **Appendix B**.

#### Lead

Lead is a naturally occurring metal element and is the most common metal found in the environment. Pure metallic lead was primarily used to make products such as electric storage batteries, ammunition, solder, radiation shields, pipes and sheaths for electric cables. The most common organic lead compounds are tetraethyl (TEL) and tetra methyl (TML) lead that were used as anti-knock agents in gasoline. Inorganic lead compounds such as lead oxides, chromates, carbonates and nitrates are commonly found in insecticides, pigments, paints, frits, glasses, plastics and rubber compounds.

The Canadian Federal Government has been limiting the amount of lead in paint to 0.5 percent (5,000 ppm) since 1976. Paint used in buildings before 1960 probably contained elevated levels of lead. If the building was built after 1980, it is unlikely that interior paint contains elevated concentrations of lead; if it was built after 1992, exterior paint probably does not contain lead. The Surface Coating Materials Regulation (SOR/2010-224 dated March, 2011), pursuant to the 2005 Hazardous Products Act, limits the allowed concentration of lead in a paint applied to manufactured products to 0.009 percent (90 ppm) of lead. Any paint containing lead at a concentration of 0.5% by weight (i.e. 5,000ug/g, or 5,000ppm) or greater is considered to be a lead-based paint (LBP). These paints represent the greatest potential exposure if disturbed. Paints confirmed to contain lead at a concentration of at least 0.009% by weight (i.e. 90ug/g, or 90ppm) but less than 0.5% by weight are considered to be lead-containing paints (LCP). These paints may present an exposure hazard depending on the type of work activities (i.e. degree of disturbance) and length of exposure. Paint

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with lead concentrations below 0.009% by weight are not considered to be lead-containing and represent little to no lead exposure hazard.

File: TLW 1928

Paint chip samples were collected from painted surfaces within the building. All paint chip samples were collected by scraping down to the base material substrate to ensure collected of all layers of paint. Care was taken to avoid collection of the underlying substrate to reduce analytical substrate matrix interference.

Paint chip samples were submitted to a third party laboratory (EMSL) for the determination of lead content. Analysis was conducted by the laboratory following EPA 6020 – Digestion, ICP-MS. Results were reported by the laboratory as micrograms per grams (ug/g).

A variety of paints were observed throughout the building. The paint samples submitted for analysis represent the overall majority of the paint that exists within the project area. Paints that exist on a single door, a cabinet, a small area, etc., may be considered lead based paint.

A total of eight (8) samples of paints were collected throughout the building and submitted for analysis.

- LS-01 Beige Wall Paint Living Room 90ppm;
- LS-02 White Trim Paint Dining Room 190ppm;
- LS-03 White Ceiling Paint Kitchen 16,000ppm;
- LS-04 Light Beige Paint Hallway 610ppm;
- LS-05 White Door Frame Paint Exterior 2,500ppm;
- LS-06 White Wall Paint Bedroom 870ppm;
- LS-07 Grey Wall Paint Master Bedroom 340ppm; and
- LS-08 Brown Deck Paint Exterior 120ppm.

Based on the analytical results the white ceiling paint collected from the kitchen was found to contain a lead concentration of greater than 5,000ppm and is therefore considered to be lead based paint.

All other paints sampled were found to contain lead concentrations greater than 90ppm and are therefore all considered to be lead containing.

Lead may be present in solder joints, glazing on ceramic finishes, and on all copper piping throughout the subject building.

Analytical results are presented in **Appendix B.** 

# Mercury

Mercury containing fluorescent light tubes are present throughout the residence. In addition, mercury may also be used as a preservative in paint applications.

#### Mould

There is a significant amount of visible mould located in the basement. During the assessment it was noted that the basement had flooded and there was approximately eight inches of water throughout the basement.

#### Silica

Crystalline silica is assumed to be present in the plaster, drywall, drywall joint compound, ceiling texture, ceiling stipple, brick, brick mortar, cinder block, cinder block, foundation parging, caulking, and any other cementitious materials present in the project area.

File: TLW 1928

# **PCBs**

No PCB-containing equipment was observed at the subject site.

#### **ODSs**

ODS's can be found in applications such as refrigerants in heat pumps, refrigerators, freezers and air conditioners (A/C). ODS containing equipment was not observed at the subject site.

# Recommendations

Based on the above findings CM3 provides the following recommendations for review.

#### Lead

• Engineering controls such as wetting the painted surfaces prior to and during demolition must be implemented to control dust generation. All work should be completed following the Ministry of Labour "Guideline –Lead on Construction Projects".

### Mould

- Due to the extensive visible mould contamination throughout the basement. Persons entering the premises should wear a half-face piece air purifying respirator fitted with replaceable filters (N95 minimum), suitable eye protection and disposable coveralls and dust impermeable gloves as well as disposable boot covers prior to entering the residence.
- During demolition activities dust suppression measures must be taken to reduce the release spores and other mould derived particulate matter.

#### Mercury

 Best management practices dictate that the fluorescent light tubes be carefully removed, containerized and picked up and disposed of by a licensed hazardous materials contractor in accordance with Ontario Regulation 347/09 (as amended) prior to demolition.

# Silica

 Control the dust during demolition. Ensure that wash stations are present for worker protection and that the maximum allowable airborne concentration for all silica forms is not exceeded. All work should be completed following the Ministry of Labour "Guideline – Silica on Construction Projects"

# **Limitations**

This report has been prepared and the work referred to in this report has been undertaken by CM3 Environmental Inc. for Marilyn Steinburg. It is intended for the sole and exclusive use of Ottawa Marilyn Steinburg and their authorized agents for the purpose(s) set out in this report. Any use of, reliance on or decision made based on this report by any person other than Marilyn Steinburg for any purpose, or by Marilyn Steinburg for a purpose other than the purpose(s) set out in this report, is the sole responsibility of such other person or Marilyn Steinburg and CM3 Environmental Inc. make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that

File: TLW 1928

may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

Any conclusions or recommendations made in this report reflect CM3 Environmental Inc.'s judgment based on the following limited investigations: visual site inspection(s) on the date(s) set out in this report; examination of public records; and interviews with individuals having information about the site. While efforts have been made to substantiate information provided by third parties, CM3 Environmental Inc. makes no representation or warranty as to its completeness or accuracy.

This report has been prepared for specific application to this site. Unless otherwise stated, the findings cannot be extended to previous or future site conditions; portions of the site which were unavailable for direct investigation; subsurface locations which were not investigated directly; or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site; and substances addressed by the investigation may exist in areas of the site not investigated or in quantities not ascertained.

Nothing in this report is intended to constitute or provide a legal opinion. CM3 Environmental Inc. makes no representation as to the requirements of or compliance with environmental laws, rules, regulations or policies established by federal, provincial or local government bodies. Revisions to the regulatory standards referred to in this report may be expected over time. As a result, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by **Marilyn Steinburg and their authorized agents** and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of CM3 Environmental Inc.

Respectfully submitted,

CM3 Environmental Inc.

Reviewed by:

Joel Marcellus

Project Coordinator

Trent Windsor, C.E.T.

Principal, Project Manager

Appendix A
Other Designated Substances

File: TLW 1928

The following are not typically found in most buildings and are usually exclusive to specific industrial process:

### Acrylonitrile

Acrylonitrile is used to produce polymers such as acrylonitrile-butadiene-styrene (ABS) resins. These polymers are used in the manufacturing of a wide range of commercial products (i.e., automotive parts, clothing, carpets, etc.). The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed to airborne acrylonitrile is to be maintained at the lowest practical level and not exceed an eight hour average concentration of 4.3 mg/m³ of air (2 ppmv). In its hardened polymer form, acrylonitrile is not expected to release emissions that would

exceed the allowable limits. Pure acrylonitrile was not identified within the project area.

# Arsenic

Arsenic can be found in paint on roofing flashings, floors, walls and on the underside of the concrete ground floor structures in old buildings. The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed to airborne arsenic is to be maintained at the lowest practical level and not exceed an eight hour average concentration of  $10 \ \Box g/m^3$  of air.

Considering the age of the building, arsenic could be present in the above listed materials. However, there is a low probability of finding arsenic-based coatings and minor amounts of this metal did not justify that the sampling be performed in the present assessment.

#### Benzene

Benzene is typically found in petroleum based products such as gasoline and diesel fuels, asphalt and other hydrocarbon based products. The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed to airborne benzene is to be maintained at the lowest practical level with a view to achieving an ambient air concentration lower than 3.2 mg/m³ of air (1 ppmv) and not exceed an eight hour average concentration of 16 mg/m³ of air (5 ppmv).

Direct sources of benzene emissions were not identified within the project area.

#### **Coke Oven Emissions**

Coke Oven Emissions result from burning of coke. The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed to coke oven emissions are to be maintained at the lowest practical level and not to exceed an eight hour average concentration of 0.15 mg/m³ of air. Direct sources of coke oven emissions were not identified within the project area.

# **Ethylene Oxide**

Ethylene Oxide is a common by-product of fumigation or sterilization procedures. The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed to airborne ethylene oxide is to be maintained at the lowest practical level and not exceed an eight hour average concentration of 1.8 mg/m³ of air (1 ppmv).

Materials or processes that may release ethylene oxide to ambient air were not identified within the project area.

# Isocyanates

Isocyanates are mainly used in the manufacture of plastics, foams and coatings. The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed is isocyanate dust is to be maintained at the lowest practical level and not exceed an eight hour average concentration of 0.2 µmoles/m³ of air (0.005 ppmv).

Manufactured products under normal conditions do not typically pose a health risk. However, sawing or scraping uncured polyurethane that still contains some unreacted-NCO groups will release isocyanate dust. Uncured polyurethanes were not identified within the project area.

### **Vinyl Chloride**

Vinyl Chloride is found in many applications such as PVC pipes and fittings. The Time-Weighted Average Exposure Limits (TWAEL) of a worker exposed to vinyl chloride emission is to be maintained at the lowest practical level and not exceed and eight hour average concentration of 5.2 mg/m³ of air (1 ppmv).

Vinyl chloride in the PVC compound is bound in a solid matrix that is unlikely to become airborne. Vinyl chloride emissions are not likely to exceed the prescribed limits within the project area.

Appendix B Analytical Results



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EMSL Canada Order 671800849 55CMTE42 Customer ID:

Customer PO: Project ID:

Attn: Joel Marcellus

CM3 Environmental Inc.

5710 Akins Rd

Stittsville, ON K2S 1B8 Phone: (613) 820-4343

Fax:

4/30/2018

Collected: Received:

5/01/2018

Analyzed:

5/08/2018

Proj: TLW1928 - 24 Hawthorne Ave

# Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: Sample Description:

Dining Rm/Plaster

Living Rm/Plaster

PLA-01B-Base Coat

PLA-01A-Skim Coat

Lab Sample ID: 671800849-0001

Lab Sample ID:

671800849-0002A

	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0% 100%	None Detected		
Client Sample ID:	PLA-01A-Base Coat				Lab Sample ID:	671800849-0001A

Sample Description: Dining Rm/Plaster

	Analyzed		Non-A	Asbestos				
TEST	Date	Color	Fibrous I	Non-Fibrous	Asbestos	Comment		
PLM	5/04/2018	Gray	0%	100%	None Detected			
Client Sample ID:	PLA-01B-Skim Coat					Lab Sample ID:	671800849-0002	

Client Sample ID: PLA-01B-Skim Coat Sample Description:

Analyzed Non-Asbestos **TEST** Date Fibrous Non-Fibrous Comment Color Asbestos PLM 5/04/2018 White 0% 100% None Detected

Client Sample ID: Sample Description: Living Rm/Plaster

Analyzed Non-Asbestos **Fibrous TEST** Date Color Non-Fibrous Asbestos Comment PLM 5/04/2018 Gray 0% 100% None Detected

PLA-01C-Skim Coat Lab Sample ID: 671800849-0003 Client Sample ID:

Sample Description: Hallway/Plaster

Analyzed Non-Asbestos TEST Date Fibrous Non-Fibrous Comment Color Asbestos PLM 5/04/2018 White 0% 100% None Detected

PLA-01C-Base Coat Lab Sample ID: 671800849-0003A Client Sample ID:

Sample Description: Hallway/Plaster

Analyzed Non-Asbestos **TEST** Date Color **Fibrous** Non-Fibrous **Asbestos** Comment PLM 5/04/2018 Gray 0% 100% None Detected Lab Sample ID: 671800849-0004 Client Sample ID: PLA-01D-Skim Coat

Sample Description: 2nd Bedroom/Plaster

Analyzed Non-Asbestos **TEST** Date Fibrous Non-Fibrous Comment Color Asbestos PLM 5/07/2018 White 0% 100% None Detected



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Customer PO: Project ID:

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Client Sample ID:	PLA-01D-Base Coat					Lab Sample ID:	671800849-0004A
Sample Description:	2nd Bedroom/Plaster						
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Gray	0%	100%	None Detected		
Client Sample ID:	PLA-01E-Skim Coat					Lab Sample ID:	671800849-0005
Sample Description:	2nd Fl. Hallway/Plaster						
	Ziid i i. Hallwayii lastel						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		
Client Sample ID:	PLA-01E-Base Coat					Lab Sample ID:	671800849-0005A
Sample Description:	2nd Fl. Hallway/Plaster						
	Analyzed		Non	-Asbestos			
TEST	Date	Color			Asbestos	Comment	
PLM	5/07/2018	Gray	0%	100%	None Detected		
Client Sample ID:	TEX-01A-Top Coat					Lab Sample ID:	671800849-0006
Sample Description:	Living Rm/Ceiling Texture						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Tan/White	0%	100%	None Detected		
Client Sample ID:	TEX-01A-Skim Coat					Lab Sample ID:	671800849-0006A
Sample Description:	Living Rm/Ceiling Texture						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	TEX-01A-Base Coat					Lab Sample ID:	671800849-0006B
Sample Description:	Living Rm/Ceiling Texture						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Gray	0%	100%	None Detected		
Client Sample ID:	TEX-01B-Top coat					Lab Sample ID:	671800849-0007
Sample Description:	Living Rm/Ceiling Texture						
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM 	5/04/2018	Tan/White	0%	100%	None Detected		
Client Sample ID:	TEX-01B-Skim Coat					Lab Sample ID:	671800849-0007A
Sample Description:	Living Rm/Ceiling Texture						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		



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Customer PO: Project ID:

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Client Sample ID:	TEX-01B-Base Coat					Lab Sample ID:	671800849-0007B
Sample Description:	Living Rm/Ceiling Texture						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Gray	0%	100%	None Detected		
Client Sample ID:	TEX-01C-Top coat					Lab Sample ID:	671800849-0008
Sample Description:	Dining Rm/Ceiling Texture						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Tan/White	0%	100%	None Detected		
Client Sample ID:	TEX-01C-Skim Coat					Lab Sample ID:	671800849-0008A
Sample Description:	Dining Rm/Ceiling Texture						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	TEX-01C-Base Coat					Lab Sample ID:	671800849-0008B
Sample Description:	Dining Rm/Ceiling Texture						
	Analyzed		Non-	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Gray	0%	100%	None Detected		
Client Sample ID:	TEX-01D-Top Coat					Lab Sample ID:	671800849-0009
Sample Description:	2nd Fl. Hallway/Ceiling Text	ure					
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Tan/White	0%	100%	None Detected		
Client Sample ID:	TEX-01D-Skim Coat					Lab Sample ID:	671800849-0009A
Sample Description:	2nd Fl. Hallway/Ceiling Text	ure					
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	15%	85%	None Detected		
Client Sample ID:	TEX-01D-Base Coat					Lab Sample ID:	671800849-0009B
Sample Description:	2nd Fl. Hallway/Ceiling Text	ure					
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Brown	1%	99%	None Detected		
Client Sample ID:	TEX-01E-Top Coat					Lab Sample ID:	671800849-0010
Sample Description:	2nd Fl. Hallway/Ceiling Text	ure					
	Analyzed		Non-	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Tan/White	0%	100%	None Detected		



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Customer PO: Project ID:

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Client Sample ID:	TEX-01E-Skim Coat					Lab Sample ID:	671800849-0010A
Sample Description:	2nd Fl. Hallway/Ceiling Texture						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	10%	90%	None Detected		
Client Sample ID:	TEX-01E-Base Coat					Lab Sample ID:	671800849-0010B
Sample Description:	2nd Fl. Hallway/Ceiling Texture						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Brown	0%	100%	None Detected		
Client Sample ID:	DJC-01A					Lab Sample ID:	671800849-0011
ample Description:	Basement/Drywall Joint Compo	und					
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	DJC-01B					Lab Sample ID:	671800849-0012
Sample Description:	Basement/Drywall Joint Compo	und					
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	DJC-01C					Lab Sample ID:	671800849-0013
Sample Description:	Basement/Drywall Joint Compo	und					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	DJC-01D					Lab Sample ID:	671800849-0014
Sample Description:	Kitchen/Drywall Joint Compound	d					
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		
Client Sample ID:	DJC-01E					Lab Sample ID:	671800849-0015
Sample Description:	Hallway/Drywall Joint Compoun	d					
	Analyzed		Non-	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		
Client Sample ID:	ST-01A					Lab Sample ID:	671800849-0016
Sample Description:	Master B/R/Ceiling Stipple						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		



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			LFA000/IN	-93/110 Weti	100		
Client Sample ID:	ST-01B					Lab Sample ID:	671800849-0017
Sample Description:	Master B/R/Ceiling Stipple						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous		Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	ST-01C					Lab Sample ID:	671800849-0018
Sample Description:	Master B/R/Ceiling Stipple						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		
Client Sample ID:	ST-02A					Lab Sample ID:	671800849-0019
Sample Description:	Basement/Ceiling Stipple (2)						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	ST-02B					Lab Sample ID:	671800849-0020
Sample Description:	Basement/Ceiling Stipple (2)						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	ST-02C					Lab Sample ID:	671800849-0021
Sample Description:	Basement/Ceiling Stipple (2)						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		
Client Sample ID:	CLK-01A					Lab Sample ID:	671800849-0022
Sample Description:	Interior/Caulking (white)						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	CLK-01B					Lab Sample ID:	671800849-0023
Sample Description:	Interior/Caulking (white)						
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	CLK-01C					Lab Sample ID:	671800849-0024
Sample Description:	Interior/Caulking (white)						
				Ashart			
TEST	Analyzed	Colo-		-Asbestos	Achaetaa	Commont	
TEST	Date 5/07/2018	Color		Non-Fibrous	Asbestos None Detected	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		



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Customer PO: Project ID:

Client Sample ID:	CLK-02A					Lab Sample ID:	671800849-0025
Sample Description:	Exterior/Caulking (white)						
	Analyzed		Non-	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	CLK-02B					Lab Sample ID:	671800849-0026
Sample Description:	Exterior/Caulking (white)						
	Analyzed			Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%	100%	None Detected		
Client Sample ID:	CLK-02C					Lab Sample ID:	671800849-0027
Sample Description:	Exterior/Caulking (white)						
	A I d		M.	Achaetas			
TEST	Analyzed Date	Color	Non- Fibrous	Asbestos Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	White	0%	100%	None Detected		
Client Sample ID:	BR-01A					Lab Sample ID:	671800849-0028
Sample Description:						Lab Sample ID.	J. 10000-3-0020
cample Description:	Exterior/Brick						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Red	0%	100%	None Detected		
Client Sample ID:	BR-01B					Lab Sample ID:	671800849-0029
Sample Description:	Exterior/Brick						
	Analyzed			Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	<b>Date</b> 5/04/2018	<b>Color</b> Red			Asbestos None Detected		
PLM  Client Sample ID:	Date 5/04/2018 BR-01C		Fibrous	Non-Fibrous		Comment  Lab Sample ID:	671800849-0030
PLM  Client Sample ID:	<b>Date</b> 5/04/2018		Fibrous	Non-Fibrous			671800849-0030
PLM  Client Sample ID:	Date 5/04/2018  BR-01C Exterior/Brick		Fibrous 0%	Non-Fibrous 100%			671800849-0030
PLM  Client Sample ID:	Date 5/04/2018 BR-01C		Fibrous 0% Non-	Non-Fibrous			671800849-0030
PLM Client Sample ID: Sample Description: TEST	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed	Red	Fibrous 0% Non-	Non-Fibrous 100%	None Detected	Lab Sample ID:	671800849-0030
PLM  Client Sample ID:  Sample Description:  TEST  PLM	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018	Red	Fibrous  0%  Non- Fibrous	Non-Fibrous 100%  Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:	671800849-0030 671800849-0031
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A	Red	Fibrous  0%  Non- Fibrous	Non-Fibrous 100%  Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:  Comment	
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018	Red	Fibrous  0%  Non- Fibrous	Non-Fibrous 100%  Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:  Comment	
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A	Red	Non- Fibrous	Non-Fibrous 100%  Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:  Comment	
PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID: Sample Description:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A Exterior/Brick Mortar  Analyzed Date	Color  Color	Non- Fibrous 0% Non- Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment	
PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID: Sample Description:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A Exterior/Brick Mortar  Analyzed	Color Red	Non- Fibrous 0%	Asbestos 100%  Asbestos Non-Fibrous 100%	Asbestos None Detected	Lab Sample ID:  Comment  Lab Sample ID:	
PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID: Sample Description:  TEST	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A Exterior/Brick Mortar  Analyzed Date	Color  Color	Non- Fibrous 0% Non- Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:	
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A Exterior/Brick Mortar  Analyzed Date 5/07/2018	Color  Color	Non- Fibrous 0% Non- Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0031
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:  Sample Description:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A Exterior/Brick Mortar  Analyzed Date 5/07/2018  BRM-01B Exterior/Brick Mortar	Color  Color	Non-Fibrous  Non-Fibrous  0%	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous 100% Asbestos Non-Fibrous 100%	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0031
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:	Date 5/04/2018  BR-01C Exterior/Brick  Analyzed Date 5/07/2018  BRM-01A Exterior/Brick Mortar  Analyzed Date 5/07/2018  BRM-01B	Color  Color	Non-Fibrous  Non-Fibrous  Non-Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0031



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Customer PO: Project ID:

			EPA000/K	-93/116 Wetn	lou		
Client Sample ID:	BRM-01C					Lab Sample ID:	671800849-0033
Sample Description:	Exterior/Brick Mortar						
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/08/2018	Gray	0%		None Detected		
Client Sample ID:	CB-01A	<del> </del>				Lab Sample ID:	671800849-0034
Sample Description:	Exterior/Cinder Block					Lub Gampie ib.	07 1000043-0004
sample Description.	Exterior/Cinder Block						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Gray	0%	100%	None Detected		
Client Sample ID:	CB-01B					Lab Sample ID:	671800849-0035
Sample Description:	Exterior/Cinder Block						
	Analyzed			-Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Gray	0%	100%	None Detected		
Client Sample ID:	CB-01C					Lab Sample ID:	671800849-0036
Sample Description:	Exterior/Cinder Block						
TEST	Analyzed	Color		-Asbestos	Ashaataa	Comment	
TEST PLM	5/08/2018	<b>Color</b> Gray	Fibrous 0%	Non-Fibrous	Asbestos  None Detected	Comment	
		Glay		10076	None Detected		
Client Sample ID:	CBM-01A					Lab Sample ID:	671800849-0037
Sample Description:	Exterior/Cinder Block Mortar						
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/08/2018	Gray	0%		None Detected		
Client Sample ID:	CBM-01B					Lab Sample ID:	671800849-0038
Sample Description:	Exterior/Cinder Block Mortar						
oumpre Decemparien.	Exterior/Cirider block Mortal						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/08/2018	Gray	0%	100%	None Detected		
Client Sample ID:	CBM-01C					Lab Sample ID:	671800849-0039
Sample Description:	Exterior/Cinder Block Mortar						
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM 	5/08/2018	Gray	0%	100%	None Detected		
Client Sample ID:	FP-01A					Lab Sample ID:	671800849-0040
Sample Description:	Exterior/Foundation Parging						
TEOT	Analyzed	0-1		-Asbestos	Ashiriti	Com	
TEST	Date 5/07/2019	Crov		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Gray	0%	100%	None Detected		



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Customer PO: Project ID:

Client Sample ID:	FP-01B						Lab Sample ID:	671800849-0041
Sample Description:	Exterior/Foundation	on Parging						
	Anal	vzed		Non	-Asbestos			
TEST	Da	=	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2	018	Gray	0%	100%	None Detected		
Client Sample ID:	FP-01C						Lab Sample ID:	671800849-0042
Sample Description:	Exterior/Foundation	on Parging						
	Anal	yzed		Non	-Asbestos			
TEST		yzeu ite	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/07/2		Gray	0%		None Detected	Commone	
	FP-01D		0.0,				Lab Sample ID:	671800849-0043
Client Sample ID:							Lab Sample ID.	071000043-0043
Sample Description:	Exterior/Foundation	on Parging						
	Anal	vzed		Non	-Asbestos			
TEST	Da	=	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/08/2	018	Gray	0%	100%	None Detected		
Client Sample ID:	FP-01E						Lab Sample ID:	671800849-0044
•		na Danaina					Lub Gumpre 12.	
	Exterior/Foundation	on Pardind						
Sample Description:	_xionom odnada	3 3						
Sample Description:				Non	-Asbestos			
TEST	Anal		Color		-Asbestos Non-Fibrous	Asbestos	Comment	
TEST	Anal	yzed ate	<b>Color</b> Gray		Non-Fibrous	<b>Asbestos</b> None Detected	Comment	
TEST PLM	Anal Da	yzed ate		Fibrous	Non-Fibrous		Comment  Lab Sample ID:	671800849-0045
TEST PLM Client Sample ID:	Anal Da 5/08/2 AS-01A	yzed ate 018		Fibrous	Non-Fibrous			671800849-0045
TEST PLM Client Sample ID:	<b>Anal</b> <b>Da</b> 5/08/2	yzed ate 018		Fibrous	Non-Fibrous			671800849-0045
TEST PLM Client Sample ID:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S	yzed ote o18 shingle		Fibrous 0%	Non-Fibrous			671800849-0045
TEST PLM Client Sample ID:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S	yzed ote o18 shingle		Fibrous 0% Non	Non-Fibrous 100%			671800849-0045
TEST PLM Client Sample ID: Sample Description: TEST	Anal Da 5/08/20 AS-01A Exterior/Asphalt S	yzed ate 018 shingle yzed	Gray	Fibrous 0% Non	Non-Fibrous 100%	None Detected	Lab Sample ID:	671800849-0045
TEST PLM Client Sample ID: Sample Description: TEST PLM	Anal Da 5/08/2 AS-01A Exterior/Asphalt S Anal Da	yzed ate 018 shingle yzed	Gray Color	Fibrous 0% Non Fibrous	Non-Fibrous 100%  -Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:	671800849-0045 671800849-0046
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Anal Da S/08/20 AS-01A Exterior/Asphalt S Anal Da S/07/20 AS-01B	yzed ate 018 shingle yzed ate 018	Gray Color	Fibrous 0% Non Fibrous	Non-Fibrous 100%  -Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:  Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S Anal Da 5/07/20	yzed ate 018 shingle yzed ate 018	Gray Color	Fibrous 0% Non Fibrous	Non-Fibrous 100%  -Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:  Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Anal Da S/08/20 AS-01A Exterior/Asphalt S Anal Da S/07/20 AS-01B	yzed ate 018 shingle yzed ate 018	Gray Color	Non Fibrous	Non-Fibrous 100%  -Asbestos Non-Fibrous	None Detected  Asbestos	Lab Sample ID:  Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S Anal Da 5/07/20 AS-01B Exterior/Asphalt S	yzed ate 018 shingle yzed ate 018	Gray Color	Non Fibrous	Non-Fibrous 100%  -Asbestos Non-Fibrous 40%	None Detected  Asbestos	Lab Sample ID:  Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S Anal Da 5/07/20 AS-01B Exterior/Asphalt S Anal	yzed ate 018 wyzed ate 018 wyzed ate 018 whingle	Gray  Color  Brown/Black	Non Fibrous	Asbestos Asbestos Asbestos Asbestos	Asbestos None Detected	Lab Sample ID:  Comment  Lab Sample ID:	
TEST PLM Client Sample ID: Sample Description:  TEST PLM Client Sample ID: Sample Description:  TEST	Anal Da 5/08/20 AS-01A Exterior/Asphalt S Anal Da 5/07/20 AS-01B Exterior/Asphalt S Anal Da 5/08/20	yzed ate 018 wyzed ate 018 wyzed ate 018 whingle	Color Brown/Black Color	Non Fibrous  Non Fibrous  Non Fibrous	-Asbestos Non-Fibrous  -Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:	
TEST  PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID:  Client Sample ID:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S Anal Da 5/07/20 AS-01B Exterior/Asphalt S Anal Da 5/08/20 AS-01C	yzed ate 018 shingle yzed ate 018 shingle upstack yzed ate 018	Color Brown/Black Color	Non Fibrous  Non Fibrous  Non Fibrous	-Asbestos Non-Fibrous  -Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0046
TEST  PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID:  Client Sample ID:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S Anal Da 5/07/20 AS-01B Exterior/Asphalt S Anal Da 5/08/20	yzed ate 018 shingle yzed ate 018 shingle upstack yzed ate 018	Color Brown/Black Color	Non Fibrous  Non Fibrous  Non Fibrous	-Asbestos Non-Fibrous  -Asbestos Non-Fibrous  -Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0046
TEST  PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID: Sample Description:  TEST  PLM  Client Sample ID:  Client Sample ID:	Anal Da 5/08/2:  AS-01A Exterior/Asphalt S 5/07/2:  AS-01B Exterior/Asphalt S Anal Da 5/08/2:  AS-01C Exterior/Asphalt S	yzed ate 018 shingle yzed ate 018 shingle upstack yzed ate 018	Color Brown/Black Color	Non Fibrous 60% Non Fibrous	-Asbestos Non-Fibrous  -Asbestos Non-Fibrous  -Asbestos Non-Fibrous	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0046
PLM  Client Sample ID:  Sample Description:  TEST  PLM  Client Sample ID:  Sample Description:	Anal Da 5/08/20 AS-01A Exterior/Asphalt S 5/07/20 AS-01B Exterior/Asphalt S Anal Da 5/08/20 AS-01C Exterior/Asphalt S Anal Asphalt S Anal Anal Asphalt S Anal Anal Asphalt S Anal Anal Asphalt S Anal Asp	yzed ate 018 chingle yzed ate 018 chingle vyzed ate 018 chingle stee 018	Color Brown/Black Color	Non Fibrous 60% Non Fibrous 60%	-Asbestos Non-Fibrous 40% -Asbestos Non-Fibrous 40%	Asbestos  Asbestos  Asbestos	Lab Sample ID:  Comment  Lab Sample ID:  Comment	671800849-0046



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Customer PO: Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Analy	yst(s)	:
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Ewa Krupinska PLM (31) Hilary Belleville PLM (22) Simon Parent PLM (9)

Reviewed and approved by:

Simon Parent, Laboratory Manager or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP of any agency of the U.S. Government.

Samples analyzed by EMSL Canada Inc. Ottawa, ON

Initial report from: 05/08/201811:38:49



2756 Slough Street, Mississauga, ON L4T 1G3

Phone/Fax: (289) 997-4602 / (289) 997-4607

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Phone: (613) 820-4343

Fax:

Received: 05/02/18 11:01 AM

EMSL Canada Or

CustomerID:

CustomerPO:

ProjectID:

551805059

55CMTE42

TLW 1928

Collected: 4/30/2018

**Joel Marcellus** 

5710 Akins Rd

CM3 Environmental Inc.

Stittsville, ON K2S 1B8

Project: TLW1928 - 24 Hawthorne

# Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Weight	Lead <b>Concentration</b>
L5-01	551805059-000	1 4/30/2018	5/4/2018	0.2368 g	90 ppm
	Site: Beige Wall Paint - Living Room				
L5-02	551805059-000	2 4/30/2018	5/4/2018	0.2339 g	190 ppm
	Site: White Trim - Dining Room				
L5-03	551805059-000	3 4/30/2018	5/4/2018	0.2418 g	16000 ppm
	Site: White Ceiling - Kitchen				
L5-04	551805059-000	4 4/30/2018	5/4/2018	0.2371 g	610 ppm
	Site: Light Beige	e - Hallway			
L5-05	551805059-000	5 4/30/2018	5/4/2018	0.2333 g	2500 ppm
	Site: White Door Frame - Exerior				
L5-06	551805059-000	6 4/30/2018	5/4/2018	0.2343 g	870 ppm
	Site: White Wall Paint - Bedroom 2				
L5-07	551805059-000	7 4/30/2018	5/4/2018	0.2476 g	340 ppm
	Site: Grey Wall Paint - Master Bedroom				
L5-08	551805059-000	8 4/30/2018	5/4/2018	0.2295 g	120 ppm
	Site: Brown Deck Paint - Exterior				

Rowena Fanto, Lead Supervisor or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

 $Samples\ analyzed\ by\ EMSL\ Canada\ Inc.\ Mississauga,\ ON\ A2LA\ Accredited\ Environmental\ Testing\ Cert\ \#2845.08$ 

Initial report from 05/09/2018 08:40:56

Appendix C Photo Log File: TLW 1928

# Pre-Demo DSS 24 Hawthorne Avenue





Photograph 1: 24 Hawthorne Avenue
– Exterior



Photograph 3: Mercury containing fluorescent light tubes located throughout residence.



Photograph 2: Mould impacted drywall located in the basement.

CM3 Environmental Inc. TLW-1928