

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 30th, 2018. Based on the findings of the visual inspection, suspect materials were documented, collected and subsequently submitted for analysis at a 3rd 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

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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

Sample ID	Material	Location	Friability	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

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

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

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.

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

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/m³ 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

PLA-01A-Skim Coat Client Sample ID:

Sample Description:

Dining Rm/Plaster

Lab Sample ID: 671800849-0001

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

PLA-01B-Skim Coat Client Sample ID: Sample Description: Living Rm/Plaster

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

Sample Description: Living Rm/Plaster

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

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

Sample Description: Hallway/Plaster

	Analyzed		Non-Asbestos		
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment
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		
Client Sample ID:	PLA-01D-Skim Coat					Lab Sample ID:	671800849-0004
Sample Description	: 2nd Bedroom/Plaster						

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

2nd Bedroom/Plaster



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Customer PO: Project ID:

Client Sample ID:	PLA-01D-Base Coat					Lab Sample ID:	671800849-0004A
Sample Description:	2nd Bedroom/Plaster						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	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						
	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	Fibrous	Non-Fibrous	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			-Asbestos			
TEST	Date	Color		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		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:

		-		OO7 1 10 INICELL	ou		
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		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			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		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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EMSL Canada Order 671800849 55CMTE42 Customer ID:

Customer PO: Project ID:

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

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	Fibrous	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
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-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	t					
	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%		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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Customer PO: Project ID:

			EPA600/K	-93/116 Wetn	lou		
Client Sample ID:	ST-01B					Lab Sample ID:	671800849-0017
Sample Description:	Master B/R/Ceiling Stipple						
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	White	0%		None Detected		
Client Sample ID:	ST-01C					Lab Sample ID:	671800849-0018
Sample Description:						Lub Gampie ib.	07 1000043-00 10
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)						
	3 - 1 - 1 - 1						
	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			-Asbestos			
TEST	Date	Color		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			-Asbestos			
TEST	Date	Color		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)						
TEST	Analyzed	Color		-Asbestos	Anhastas	Commont	
TEST PLM	Date 5/04/2018	Color White	Fibrous 0%	Non-Fibrous	Asbestos None Detected	Comment	
		A A I I I C		10070	None Defected	1.1.0. 1.7	071000010 222
Client Sample ID:	CLK-01C					Lab Sample ID:	671800849-0024
Sample Description:	Interior/Caulking (white)						
	A I			Ashantas			
TEST	Analyzed	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	Date 5/07/2018	White	O%		None Detected	Comment	
ı ∟ıVI	5/0//2010	VVIIILE	U%	100%	None Detected		



22 Antares Drive Suite 102 Ottawa, ON K2E 7Z6 Phone/Fax: (343) 882-6076 / (343) 882-6077 http://www.EMSL.com / ottawalab@EMSL.com EMSL Canada Order 671800849 Customer ID: 55CMTE42

Customer PO: Project ID:

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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		Non-	Asbestos			
TEST	Date	Color	Fibrous	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)						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	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:	Exterior/Brick						
	Anchinad		Na	Achastas			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Red	0%	100%	None Detected		
Client Sample ID:	BR-01B			2 / 0	20.00.04	Lab Sample ID:	671800849-0029
Sample Description:	Exterior/Brick					zaz campic ib.	J. 10000-00E0
oampie Description.	EXTRIOI/DITCK						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2018	Red	0%	100%	None Detected		
Client Sample ID:	BR-01C					Lab Sample ID:	671800849-0030
Sample Description:	Exterior/Brick						
TEST	Analyzed	C-J		Asbestos	Anhe-4	Comment	
TEST PLM	5/07/2018	Color Red	Fibrous 0%	Non-Fibrous 100%	Asbestos None Detected	Comment	
		i veu		100 /0	None Detected	Lab Committee ID	674900940 0004
Client Sample ID:	BRM-01A					Lab Sample ID:	671800849-0031
Sample Description:	Exterior/Brick Mortar						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/07/2018	Gray	0%	100%	None Detected		
Client Sample ID:	BRM-01B					Lab Sample ID:	671800849-0032
Sample Description:	Exterior/Brick Mortar						
	Analyzed		Non	Asbestos			
	-				A = b = = 4 = =	Comment	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	COMMENT	



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Customer PO: Project ID:

			LI /\000/IX	OO7 110 MICKII	<u> </u>		
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%	100%	None Detected		
Client Sample ID:	CB-01A					Lab Sample ID:	671800849-0034
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		Non	-Asbestos			
TEST	Date	Color	Fibrous	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						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/08/2018	Gray	0%	100%	None Detected		
Client Sample ID:	CBM-01A					Lab Sample ID:	671800849-0037
Sample Description:	Exterior/Cinder Block Mortar						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/08/2018	Gray	0%	100%	None Detected		
Client Sample ID:	CBM-01B					Lab Sample ID:	671800849-0038
Sample Description:	Exterior/Cinder Block Mortar						
	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		Non	-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						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
	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	Parging					
	Analyz	ed	Non-Asb	nestos			
TEST	Date			n-Fibrous	Asbestos	Comment	
PLM	5/07/201	8 Gray	0%	100%	None Detected		
Client Sample ID:	FP-01C					Lab Sample ID:	671800849-0042
Sample Description:	Exterior/Foundation	Parging					
	Anglya	ad	Non-Asb	anatan			
TEST	Analyz Date		Fibrous No		Asbestos	Comment	
PLM	5/07/201		0%	100%	None Detected	Comment	
	FP-01D	,				Lab Sample ID:	671800849-0043
Client Sample ID:		5 .				Lab Sample ID.	071000043-0043
Sample Description:	Exterior/Foundation	Parging					
	Analyz	red	Non-Asb	pestos			
TEST	Date			n-Fibrous	Asbestos	Comment	
PLM	5/08/201	8 Gray	0%	100%	None Detected		
Client Sample ID:	FP-01E	· · · · · · · · · · · · · · · · · · ·				Lab Sample ID:	671800849-0044
Sample Description:	Exterior/Foundation	Doraina				zab campic iz.	
	Exterior/Foundation	Pardind					
Sample Description.	Extensivi candation						
затріє Description.			Non-Asb	oestos			
TEST	Analyz Date	ed	Non-Asb Fibrous No		Asbestos	Comment	
TEST	Analyz	ed Color			Asbestos None Detected	Comment	
TEST PLM	Analyz Date	ed Color	Fibrous No	n-Fibrous		Comment Lab Sample ID:	671800849-0045
TEST PLM Client Sample ID:	Analyz	ced Color 8 Gray	Fibrous No	n-Fibrous			671800849-0045
TEST PLM Client Sample ID:	Analyz Date 5/08/201	ced Color 8 Gray	Fibrous No	n-Fibrous			671800849-0045
TEST PLM Client Sample ID:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir	e Color 8 Gray	Fibrous No	n-Fibrous 100%			671800849-0045
TEST PLM Client Sample ID:	Analyz	e Color 8 Gray	Fibrous No 0%	n-Fibrous 100%			671800849-0045
TEST PLM Client Sample ID: Sample Description: TEST	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir	ced Color R Gray Ingle Red Color	Fibrous No 0%	n-Fibrous 100% Destos	None Detected	Lab Sample ID:	671800849-0045
TEST PLM Client Sample ID: Sample Description: TEST PLM	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date	ced Color R Gray Ingle Red Color	Fibrous No 0% Non-Ast Fibrous No	n-Fibrous 100% pestos n-Fibrous	None Detected Asbestos	Lab Sample ID:	671800849-0045 671800849-0046
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201	ced 2 Color 8 Gray Ingle 2 Color 8 Brown/Black	Fibrous No 0% Non-Ast Fibrous No	n-Fibrous 100% pestos n-Fibrous	None Detected Asbestos	Lab Sample ID: Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201	ced 2 Color 8 Gray Ingle 2 Color 8 Brown/Black	Fibrous No 0% Non-Ast Fibrous No	n-Fibrous 100% pestos n-Fibrous	None Detected Asbestos	Lab Sample ID: Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201	ed Color 8 Gray	Fibrous No 0% Non-Ast Fibrous No	n-Fibrous 100% pestos n-Fibrous 40%	None Detected Asbestos	Lab Sample ID: Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir	eed Color R Gray Ingle Red R Gray Brown/Black Ingle Red R R R R R R R R R R R R R R R R R	Non-Ash Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40%	None Detected Asbestos	Lab Sample ID: Comment	
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir Analyz	ced Color Society Soci	Non-Ash Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40%	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	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir Analyz Date 5/08/201	ced Color Society Soci	Non-Ast Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40% pestos n-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:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir Analyz Date 5/08/201	eed Color R Gray Ingle Red R R Brown/Black Ingle Red R R Brown/Black Red R R R R R R R R R R R R R R R R R	Non-Ast Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40% pestos n-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:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir Analyz Date 5/08/201	eed Color R Gray Ingle Red R R Brown/Black Ingle Red R R Brown/Black Red R R R R R R R R R R R R R R R R R	Non-Ast Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40% pestos n-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:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir Analyz Date 5/08/201	ced color co	Non-Ast Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40% pestos n-Fibrous 40%	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:	Analyz Date 5/08/201 AS-01A Exterior/Asphalt Shir Analyz Date 5/07/201 AS-01B Exterior/Asphalt Shir Analyz Date 5/08/201 AS-01C Exterior/Asphalt Shir	ced Color Society Soci	Non-Ast Fibrous No 60%	n-Fibrous 100% pestos n-Fibrous 40% pestos n-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

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

http://www.EMSL.com torontolab@emsl.com

ProjectID:

EMSL Canada Or

CustomerID:

CustomerPO:

551805059

55CMTE42

TLW1928

Phone: (613) 820-4343 Fax:

Received: 05/02/18 11:01 AM

Collected: 4/30/2018

Project: TLW1928 - 24 Hawthorne

Joel Marcellus

5710 Akins Rd

CM3 Environmental Inc.

Stittsville, ON K2S 1B8

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

Client Sample Description	Lab ID Collected	Analyzed	Weight	Lead Concentration
L5-01	551805059-0001 4/30/2018	5/4/2018	0.2368 g	90 ppm
	Site: Beige Wall Paint - Livir	ng Room		
L5-02	551805059-0002 4/30/2018	5/4/2018	0.2339 g	190 ppm
	Site: White Trim - Dining Ro	oom		
L5-03	551805059-0003 4/30/2018	5/4/2018	0.2418 g	16000 ppm
	Site: White Ceiling - Kitchen	1		
L5-04	551805059-0004 4/30/2018	5/4/2018	0.2371 g	610 ppm
	Site: Light Beige - Hallway			
L5-05	551805059-0005 4/30/2018	5/4/2018	0.2333 g	2500 ppm
	Site: White Door Frame - Ex	kerior		
L5-06	551805059-0006 4/30/2018	5/4/2018	0.2343 g	870 ppm
	Site: White Wall Paint - Bed	Iroom 2		
L5-07	551805059-0007 4/30/2018	5/4/2018	0.2476 g	340 ppm
	Site: Grey Wall Paint - Mast	er Bedroom		
L5-08	551805059-0008 4/30/2018	5/4/2018	0.2295 g	120 ppm
	Site: Brown Deck Paint - Ex	terior		

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