HAZARDOUS MATERIALS SURVEY AND 2022 REASSESSMENT 129 - 141 LOUIS-PASTEUR PRIVATE, OTTAWA, ON



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Prepared for:

University of Ottawa

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Date:

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REASSESSMENT SURVEY 2022

McIntosh Perry Limited (MPL) was retained by the University of Ottawa, to complete to a hazardous materials survey of Marchand Residence located at 129 - 141 Louis-Pasteur Private, Ottawa, ON. The survey was conducted on May 19th, 25th & 26th, 2020. The reassessment was completed on June 16th, 2022.

The purpose of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM) and develop corrective action plans as required for the purposes of long-term management.

The assessment and reassessment determined the following findings and recommendations.

<u>Summary of the Reassessment Findings:</u>

- ACM Vinyl Floor Tiles was observed to be in Good Condition in Rooms 117, 176, and 179.
- ACM Texture Finish (Popcorn Ceiling) material was observed to be in Good Condition in Rom 172.
- ACM Mechanical Pipe Elbows/Fittings Insulation was observed to be in Good Condition in Room 100C.
- Water-damaged materials were identified in select areas during the survey.
- No mould affected materials were observed during the site survey.

Summary of Recommendations:

- Perform a reassessment of asbestos materials on an annual basis.
- Perform a pre-construction assessment and remove all asbestos-containing materials (ACM) prior to alterations or maintenance work if ACM may be disturbed by the work.
- Follow appropriate safe work procedures when handling or disturbing asbestos.

EXECUTIVE SUMMARY

McIntosh Perry Limited (MPL) was retained by the University of Ottawa, to complete a hazardous materials survey for the building located at 129 - 141 Louis-Pasteur Private, Ottawa, ON. The survey was conducted on May 19th, 25th & 26th, 2020. The Reassessment Survey was completed on June 16th, 2022.

The purpose of the survey was to determine the presence of building materials containing Designated Substances and other hazardous materials, as defined under the Ontario Occupational Health and Safety Act. Designated Substances are eleven chemical agents prescribed under Ontario Regulation 490/09.

Based on the assessment conducted by MPL, the following ACMs were identified or suspected to be present in the building:

Material Description	Friable?	Location	Type of Asbestos
Texture Coat	Yes	Specific Areas Only	Chrysotile
Vinyl Floor Tile	No	Specific Areas Only	Chrysotile
Mechanical Pipe Fittings	Yes	Specific Areas Only	Chrysotile
Brick / Stone Mortar	-	Suspected Areas Only	Suspected
Fire Doors	-	Throughout Building	Suspected
Roofing Material	-	Roof	Suspected

Table A: Summary of Asbestos-Containing Materials Identified

Note: Please refer to the complete report for specific details and recommendations.

All repairs or removal of asbestos-containing materials must be conducted according to Ontario Regulation 278/05, Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations - made under the Occupational Health and Safety Act. Asbestos containing waste must also be handled and disposed of according to Ontario Regulation 347/90 as amended – made under the Environmental Protection Act. Any suspect building materials encountered that were not assessed as part of this survey, should be assumed to contain asbestos until proven otherwise by analytical testing;

Sub-trades working with or in close proximity to asbestos-containing material should be informed of its presence;

Given that asbestos containing materials (ACMs) have been identified and will likely remain in place, an Asbestos Management Plan (AMP) is therefore required and an inventory of ACMs must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities.

Based on the assessment conducted by MPL, the following Designated Substances were identified or suspected to be present in the building:

Table B: Summary of Designated Substances & Hazardous Materials Identified

Material Description	Location
Lead Paint	Specific Areas Only
Lead Acid Batteries	Specific Equipment
Mercury Vapour	Throughout Building
Ozone Depleted Substances	Specific Equipment
Water Damage	Specific Areas Only
Silica	Throughout Building

Note: Please refer to the complete report for specific details and recommendations.

Designated Substances area regulated under Ontario Regulation 490/09 — Designated Substances, made under the Ontario Health and Safety Act, which applies to controlling designated substances in the workplace.

In addition to Ontario Regulation 490/09, the following guidelines must also be adhered to when conducting work activities that that involve disturbance of the above-mentioned materials:

- Guideline: Lead on Construction Projects, issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour
- Guideline: Silica on Construction Projects issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour.
- Environmental Abatement Council of Canada (EACC) Mould Abatement Guidelines.

Prior to any renovations or demolition activities within building, designated substances and hazardous materials must be decommissioned by a licensed contractor such that they are contained and not released to the environment during decommissioning as per O. Reg. 347/09- made under the Environmental Protection Act.

Any suspect building materials encountered that were not assessed as part of this survey, should be assumed to contain designated substances or hazardous materials until proven otherwise by analytical testing.

This report should be made available to contractors tendering on any renovation or demolition work. In turn, all contractors requesting tenders from subcontractors shall furnish this report to subcontractors.

This executive summary is not to be used alone. This report should be reviewed in its entirety.

McINTOSH PERRY iii

October 25, 2022

University of Ottawa 129 - 141 Louis-Pasteur Private Ottawa, Ontario K1N 1E3

Attention: <u>Joel Lajeunesse</u>, <u>Project Manager</u>

Re: 129 - 141 Louis-Pasteur Private, Ottawa, ON

Hazardous Materials Survey and 2022 Reassessment

McIntosh Perry Limited Reference No. Z2021101HZ / CCC-230252-00

1.0 INTRODUCTION

In accordance with your instructions, McIntosh Perry Limited (MPL) carried out a Hazardous Materials Survey at the institutional building located at 129 - 141 Louis-Pasteur Private, Ottawa, ON. The site is situated on the southeast corner of Louis Pasteur and Somerset Street. The survey of the building was conducted on May 19th, 25th & 26th, 2020. The Reassessment Survey was completed on June 16th, 2022.

via email: joel.lajeunesse@uottawa.ca

The purpose of the survey was to determine the presence of building materials containing Designated Substances and other hazardous materials, as defined under the Ontario Occupational Health and Safety Act. Designated Substances are eleven chemical agents prescribed under Ontario Regulation 490/09. In addition, a visual assessment was conducted for the presence of polychlorinated biphenyls (PCBs), radioactive materials, ozone depleting substances (ODSs), other halocarbons and mould.

MPL completed the following,

- Visual review of the building to identify materials which could contain Designated Substances and hazardous materials;
- Bulk sampling and analysis of building materials suspected of containing asbestos (if required);
- Bulk sampling and analysis of representative paints and finishes suspected of containing lead (if required);
- Review of previously completed Hazardous Materials Survey(s) and historical building record(s); and,
- Recommendations for appropriate action where required.

2.0 PROPERTY DESCRIPTION

The subject building is a two-storey building that was built in 1984 and is 4343 square meters. The subject building was observed to be constructed with a poured concrete foundation. The exterior walls are finished with brick, and the has a flat roof. Within the subject building, interior walls and ceilings were observed to be mainly drywall and concrete. The floors were generally vinyl floor tile, vinyl sheet flooring, ceramic, carpet and concrete.

3.0 FINDINGS & RECOMMENDATIONS

Designated Substances

3.1 Asbestos

Findings

A total of eighty (80) bulk samples were collected during the survey and sent to an accredited laboratory for analysis. A summary of potential asbestos-containing samples collected along with the sample location, type and friability are presented in Table 1.

Laboratory certificates of analysis for asbestos are included in Appendix C.

<u>Table 1:</u>
Asbestos Laboratory Results

Sample ID	Location	Material	Type and Content	Friability
BS 1.1	Room 117	VFT – (12"x12" Light and Dark Grey smudge)	5% Chrysotile	Non-Friable
		Mastic (Black)	None Detected	N/A
BS 1.2	Room 117	VFT – (12"x12" Light and Dark Grey smudge)	Stop Positive	Non-Friable
		Mastic (Black)	None Detected	N/A
BS 1.3	Room 117	VFT – (12"x12" Light and Dark Grey smudge)	Stop Positive	Non-Friable
BS 2.1	Room 176	VFT- (12"x12" White w/ Grey Streaks)	5% Chrysotile	Non-Friable
BS 2.2	Room 176	VFT- (12"x12" White w/ Grey Streaks)	Stop Positive	Non-Friable
BS 2.3	Room 176	VFT- (12"x12" White w/ Grey Streaks)	Stop Positive	Non-Friable
BS 3.1	Room 281	(12" x 12"- White w/Grey Mix)	None Detected	N/A
D3 3.1	R00m 281	Mastic (Beige)	None Detected	N/A
BS 3.2	Room 281	(12" x 12"- White w/Grey Mix)	None Detected	N/A
სა ა.2	NOUIII 201	Mastic (Beige)	None Detected	N/A
BS 3.3	Room 281	(12" x 12"- White w/Grey Mix)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
		Mastic (Beige)	None Detected	N/A
BS 4.1	Room 179	VFT – (12"x12" White w/ Blue, Orange and Black Specks)	None Detected	N/A
		Mastic	None Detected	N/A
BS 4.2	Room 179	VFT – (White w/ Blue, Orange and Black Specks)	None Detected	N/A
		Mastic	None Detected	N/A
BS 4.3	Room 179	VFT – (White w/ Blue, Orange and Black Specks)	None Detected	N/A
		Mastic	None Detected	N/A
BS 5.1	Room 178B	VSF – (White w/ Light and Dark Green Spots)	None Detected	N/A
BS 5.2	Room 178B	VSF – (White w/ Light and Dark Green Spots)	None Detected	N/A
BS 5.3	Room 178B	VSF – (White w/ Light and Dark Green Spots)	None Detected	N/A
BS 6.1	Room 178A	VFT – (12"x12" White with Grey Marks)	None Detected	N/A
D3 0. 1	KOOIII 170A	Mastic (Black)	None Detected	N/A
BS 6.2	Room 178A	VFT – (12"x12" White with Grey Marks)	None Detected	N/A
D3 0.2		Mastic (Black)	None Detected	N/A
BS 6.3	Room 178A	VFT – (12"x12" White with Grey Marks)	None Detected	N/A
D3 0.3		Mastic (Black)	None Detected	N/A
BS 7.1	Room 124	VFT – (12″x12″ White with Light Grey Smudge)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 7.2	Room 124	VFT – (12″x12″ White with Light Grey Smudge)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 7.3	Room 124	VFT – (12″x12″ White with Light Grey Smudge)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 8.1	Room 180	VFT (12"x12"- White w/ Blue and Red Specks)	None Detected	N/A
		Mastic	None Detected	N/A
BS 8.2	Room 180	VFT (12"x12"- White w/ Blue and Red Specks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 8.3	Room 180	VFT (12"x12"- White w/ Blue and Red Specks)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 9.1	Room 123	VFT (12"x12"-White w/ Beige Marks)	None Detected	N/A
D3 7.1	ROOM 123	Mastic	None Detected	N/A
BS 9.2	Room 123	VFT (12"x12"-White w/ Beige Marks)	None Detected	N/A
D3 9.2	RUUIII 123	Mastic	None Detected	N/A
BS 9.3	Room 123	VFT (12"x12"-White w/ Beige Marks)	None Detected	N/A
D3 9.3	ROOM 123	Mastic	None Detected	N/A
BS 10.1	Room 180	Drywall Joint Compound	None Detected	N/A
BS 10.2	Room 100D	Drywall Joint Compound	None Detected	N/A
BS 10.3	Room 105	Drywall Joint Compound	None Detected	N/A
BS 10.4	Room 180	Drywall Joint Compound	None Detected	N/A
BS 10.5	Room 262	Drywall Joint Compound	None Detected	N/A
BS 10.6	Room 157	Drywall Joint Compound	None Detected	N/A
BS 10.7	Room 200H	Drywall Joint Compound	None Detected	N/A
BS 11.1	Room 262	Firestop Caulking	None Detected	N/A
BS 11.2	Room 262	Firestop Caulking	None Detected	N/A
BS 11.3	Room 262	Firestop Caulking	None Detected	N/A
DC 10 1	Room 142	VFT (12"x12"-Light w/ Dark Grey Mix)	None Detected	N/A
BS 12.1		Mastic	None Detected	N/A
DC 10 0	Room 142	VFT (12"x12"-Light w/ Dark Grey Mix)	None Detected	N/A
BS 12.2		Mastic	None Detected	N/A
D0 10 0	D 440	VFT (12"x12"-Light w/ Dark Grey Mix)	None Detected	N/A
BS 12.3	Room 142	Mastic	None Detected	N/A
DC 40 4	D 457	VFT (12"x12"- Grey Mix)	None Detected	N/A
BS 13.1	Room 157	Mastic (Yellow)	None Detected	N/A
DC 10 0	D 157	VFT (12"x12"- Grey Mix)	None Detected	N/A
BS 13.2	Room 157	Mastic (Yellow)	None Detected	N/A
DC 40.0	D 457	VFT (12"x12"- Grey Mix)	None Detected	N/A
BS 13.3	Room 157	Mastic (Brown)	None Detected	N/A
BS 14.1	Room 273	Carpet Mastic (Yellow)	None Detected	N/A
BS 14.2	Room 273	Carpet Mastic (Yellow)	None Detected	N/A
BS 14.3	Room 273	Carpet Mastic (Yellow)	None Detected	N/A
BS 15.1	Room 158	2'x4'-Ceiling Tile (Pinholes w/ Large Fissures)	None Detected	N/A
BS 15.2	Room 158	2'x4'- Ceiling Tile (Pinholes w/ Large Fissures)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 15.3	Room 158 2'x4'- Ceiling Tile (Pinholes w/ Large Fissures)		None Detected	N/A
BS 16.1	Room 122	VFT (12"x12"- Beige w/ Square)	None Detected	N/A
D3 10.1	ROOIII 122	Mastic (Yellow)	None Detected	N/A
BS 16.2	Room 122	VFT (12"x12"- Beige w/ Square)	None Detected	N/A
BS 16.3	Room 122	VFT (12"x12"- Beige w/ Square)	None Detected	N/A
DC 17 1	Da a ma 100	VFT (12"x12" - White w/ Grey Flakes)	None Detected	N/A
BS 17.1	Room 122	Mastic (Black)	None Detected	N/A
DC 17 0	Doom 122	VFT (12"x12" - White w/ Grey Flakes)	None Detected	N/A
BS 17.2	Room 122	Mastic (Black)	None Detected	N/A
BS 17.3	Room 122	VFT (12"x12"- White w/ Grey Flakes)	None Detected	N/A
BS 17.3	ROOM 122	Mastic (Black)	None Detected	N/A
DC 10 1	Room 113	VFT (12"x12" - White and Brown Smudge)	None Detected	N/A
BS 18.1	ROOM 113	Mastic (Black)	None Detected	N/A
DC 10 2	7 Room 113	VFT (12"x12" - White and Brown Smudge)	None Detected	N/A
B3 18.2		Mastic (Black)	None Detected	N/A
DC 10 2	Room 113	VFT (12"x12" - White and Brown Smudge)	None Detected	N/A
BS 18.3		Mastic (Black)	None Detected	N/A
BS 19.1	Room 169A	Tile Grout (Gray)	None Detected	N/A
BS 19.2	Room 169A	Tile Grout (Gray)	None Detected	N/A
BS 19.3	Room 169A	Tile Grout (Gray)	None Detected	N/A
BS 20.1	Room 117	Spray Fireproofing	None Detected	N/A
BS 20.2	Room 117	Spray Fireproofing	None Detected	N/A
BS 20.3	Room 117	Spray Fireproofing	None Detected	N/A
BS 21.1	Room 262	VFT (12"x12"- Grey w/ White Streak)	None Detected	N/A
D3 21.1	KOOIII 202	Mastic	None Detected	N/A
BS 21.2	Room 262	VFT (12"x12"- Grey w/ White Streak)	None Detected	N/A
D3 21.2	ROOM 202	Mastic	None Detected	N/A
BS 21.3	Room 262	VFT (12"x12"- Grey w/ White Streak)	None Detected	N/A
D3 21.3	KOOIII 202	Mastic	None Detected	N/A
BS 22.1	Room 172	Popcorn Ceiling	4% Chrysotile	Friable
BS 22.2	Room 172	Popcorn Ceiling	Stop Positive	Friable
BS 22.3	Room 172	Popcorn Ceiling	Stop Positive	Friable
BS 23.1	Room 118B	VFT (12"x12"- Beige)	None Detected	N/A
BS 23.2	Room 118B	VFT (12"x12"- Beige)	None Detected	N/A
D3 Z3.Z	KOUIII I IOD	Mastic (Black)	None Detected	N/A
BS 23.3	Room 118B	VFT (12"x12"- Beige)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
		Mastic (Black)	None Detected	N/A

N/A - Not Applicable

VFT - Vinyl Floor Tiles

Stop Positive – Material considered being asbestos-containing as per O. Reg. 278/05.

Please refer to Appendix E – Asbestos-Containing Materials Checklist for material conditions, quantities (where applicable), and recommended actions.

The following building materials (if present) were investigated for asbestos content:

3.1.1 Fireproofing

Fireproofing was observed and sampled in Room 117. The laboratory analytical results of fireproofing samples collected from Room 117 indicate that this material does not contain asbestos.

3.1.2 Mechanical Pipe Insulation

3.1.2.1 Mechanical Pipe Straight Insulation

No mechanical pipe straight insulation was observed in the subject building.

3.1.2.2 Mechanical Piping Elbows/Fittings Insulation

Previously identified mechanical pipe elbows/fittings insulation was observed in Rooms 100C. The laboratory analytical results of samples collected indicate that this material contains 40% Chrysotile asbestos. This material is considered to be friable and was observed to be in good condition.

3.1.2.3 Mechanical Piping Hangers Insulation

Mechanical pipe hanger insulation was observed throughout the subject building. MPL made several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

3.1.2.4 HVAC Duct Insulation

HVAC duct insulation was observed throughout the subject building. MPL made several incisions throughout to investigate its composition, and it was visually identified as fiberglass, and therefore not suspected of containing asbestos.

3.1.2.5 Other Mechanical Insulation

No other mechanical insulation was observed in the subject building.

3.1.3 Flexible Duct Connector

No flexible duct connectors were observed in the subject building.

3.1.4 Heat Shield or Heat Shield Insulation

No potential asbestos-containing heat shield insulation was observed in the subject building.

3.1.5 Texture Finish

Ceiling texture coating was observed and sampled in Room 172. The laboratory analytical results of ceiling texture coat samples collected from Room 172 indicate that this material contains 4% Chrysotile asbestos. This material is considered to be friable and was observed in good condition.

Previously identified ceiling texture coat *was* observed in Room 176. This material contains 0.5% Chrysotile asbestos. This material was observed in good condition.

3.1.6 Plaster

Plaster was not observed in the subject building.

3.1.7 Drywall Joint Compound

Drywall joint compound was observed and sampled throughout the subject building. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.8 Ceiling Tiles

Ceiling tile observed within the subject building as follows:

Suspended ceiling tiles (2'x'4 – Pinholes w/ Large Fissures) were observed in Room 158. The laboratory
analytical results of ceiling tile samples collected from Room 158 indicate that this material does not
contain asbestos.

3.1.9 Vinyl Floor Tiles

Several different vinyl floor tiles were observed and sampled within the subject building as follows:

- Vinyl floor tiles (12" x 12"- Light and Dark Grey Smudge) were observed and sampled in Room 117. The laboratory analytical results indicate that this material contain 5% Chrysotile asbestos. The material was observed to be in good condition. The associated mastic (Black) was also found not to contain asbestos.
- Vinyl floor tiles (12" x 12"- White with Grey Streaks) were observed and sampled in Room 176. The laboratory analytical results indicate that this material contain 5% Chrysotile asbestos. The material was observed to be in good condition
- Vinyl floor tiles (12" x 12"- White w/Grey Mix) were observed and sampled in Room 281. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic (Beige) was also found not to contain asbestos.

- Vinyl floor tiles (VFT (12"x12" White w/ Blue, Orange and Black Specks) were observed and sampled in Room 179. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12" White with Grey Marks) were observed and sampled in Room 178A. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic (Black) was also found not to contain asbestos.
- Vinyl floor tiles (12"x12" White with Light Grey Smudge) were observed and sampled in Room 124. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastics (Black) was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12"- White w/ Blue and Red Specks) were observed and sampled in Room 180. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic (Yellow) was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12"- White w/ Beige Marks) were observed and sampled in Room 123. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12"- Light w/ Dark Grey Mix) were observed and sampled in Room 142. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12"- Grey Mix) were observed and sampled in Room 157. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic (Yellow/Brown) was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12"- Beige w/ Beige Square) were observed and sampled in Room 122. The laboratory analytical results indicate that this material does not contain asbestos.
- Vinyl floor tiles VFT (12"x12"- White and Brown Smudge) were observed and sampled in Room 113. The
 laboratory analytical results indicate that this material does not contain asbestos. The associated mastic
 (black) was also found not to contain asbestos.
- Vinyl floor tiles VFT (12"x12"- Grey w/ White Streak) were observed and sampled in Room 262. The laboratory analytical results indicate that this material does not contain asbestos. The associated mastic was also found not to contain asbestos.

- Vinyl floor tiles VFT (12"x12"- Beige) were observed and sampled in Room 118B. The laboratory
 analytical results indicate that this material does not contain asbestos. The associated mastic (Black)
 was also found not to contain asbestos.
- Previously identified asbestos-containing vinyl floor tiles (12"x12"- Grey with Black Streak) was observed in Room 179. This material contains 17.3% Chrysotile asbestos. This material is considered to be non-friable and was observed to be in good condition.
- Previously identified asbestos-containing vinyl floor tiles (12"x12"- White with Grey Streaks) was observed in Room 179. This material contains 13.4% Chrysotile asbestos. This material is considered to be non-friable and was observed to be in good condition.
- Previously identified asbestos-containing vinyl floor tiles (12"x12"- White with Faint Grey Lines) was
 observed in Room 179. This material contains 15.3% Chrysotile asbestos. This material is considered to be
 non-friable and was observed to be in good condition.

3.1.10 Vinyl Sheet Flooring

Several different vinyl sheet floors were observed and sampled within the subject building as follows:

• Vinyl sheet flooring (White w/ Light and Dark Green Spots) was observed and sampled in Room 178B and 179. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.11 Mastic

Carpet mastic (Yellow) was observed and sampled in Room 273. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.12 Wallpaper

Wallpaper was not observed in the Subject Building.

3.1.13 Brick/Stone Mortar

To avoid damage and compromising the integrity of the structure, no bulk samples of the brick/stone mortar were collected. Prior to renovation/demolition, brick mortar should be examined and tested for asbestos content. Brick/stone mortar should therefore be considered to contain asbestos until bulk samples and analysis proves otherwise.

3.1.14 Concrete Block Mortar

To avoid damage and compromising the integrity of the structure, no bulk samples of the concrete block mortar were collected. Prior to renovation/demolition, concrete block mortar should be examined and tested for asbestos content. Concrete block mortar should therefore be considered to contain asbestos until bulk samples and analysis proves otherwise.

3.1.15 Ceramic Wall / Floor Tile Grout

Floor tile grout (Grey) was observed and sampled from the Room 169A. Laboratory analytical results indicate that this material does not contain asbestos.

3.1.16 Transite (Asbestos Cement)

No transite materials were observed in the subject building.

3.1.17 *Caulking*

No caulking materials were observed in the subject building.

3.1.18 Cementitious Coating

No cementitious coating finishes were observed in the subject building.

3.1.19 Fire Doors

Fire doors were observed at various locations throughout the subject building. To avoid possible damage, no bulk samples of the internal door insulation materials were collected. Prior to removal and/or replacement, fire doors should be examined and tested for asbestos content. Fire doors should be considered to contain asbestos until bulk samples and analysis proves otherwise. All fire doors were observed to be in good condition.

3.1.20 Roofing Material

To avoid damage and compromising the integrity of roofing material, no bulk samples of the roofing materials were collected. Prior to removal and/or replacement, roofing materials should be examined and tested for asbestos content. Roofing materials should be considered to contain asbestos until bulk samples and analysis proves otherwise.

Recommendations

- Materials identified to contain asbestos that are in good condition and do not pose a risk to workers or
 occupants can be managed in place. Prior to renovation/demolition activities that may disturb the
 ACMs, these materials must be removed following appropriate Type 1/2/3 asbestos abatement work
 procedures as detailed in O. Reg. 278/05 and disposed of as asbestos waste under O. Reg. 347;
- Please refer to Appendix E Asbestos-Containing Materials Checklist for material conditions, quantities (where applicable), and recommended actions;
- Prior to renovation/demolition of materials which are assumed to be asbestos-containing (suspect
 materials which were not sampled, i.e., roofing material, brick/stone mortar, and ceramic wall/tile
 grout), these materials must either be tested for asbestos content or removed following appropriate
 asbestos abatement work procedures (Type 1/2/3) as detailed in O. Reg. 278/05 and disposed of as
 asbestos waste under O. Reg. 347;

- All repairs or removal of asbestos-containing materials must be conducted according to Ontario Regulation 278/05, Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations made under the Occupational Health and Safety Act. Asbestos containing waste must also be handled and disposed of according to Ontario Regulation 347/90 as amended made under the Environmental Protection Act. Any suspect building materials encountered that were not assessed as part of this survey, should be assumed to contain asbestos until proven otherwise by analytical testing;
- Sub-trades working with or in close proximity to asbestos-containing material should be informed of its presence; and
- Given that asbestos containing materials (ACMs) have been identified and will likely remain in place, an Asbestos Management Plan (AMP) is therefore required and an inventory of ACMs must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities.

3.2 Lead

Findings

3.2.1 Paint Finishes

A total of five (5) paint samples from the subject building were collected and analyzed for lead content. Results of bulk sampling testing and previous lead sample results are summarized in Table 2 and the laboratory.

<u>Table 2:</u>
<u>Lead Sampling Locations and Laboratory Results</u>

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
Pb01	Room 169	Wall	White	<0.024%
Pb02	Room 178	Wall	Beige	<0.041%
Pb03	Room 100C	Floor	Grey	0.013%
Pb04	Room 179	Wall	Red	0.18%
Pb05	Room 180	Wall	Grey	<0.011%
	Previous	ly Identified Lead Paint	Finishes	
PBR-G-LBP-120707-01	Room 100D	Doorframe	Brown	0.83%
PBR-G-LBP-120707-02	Room 172	Wall	Green	0.17
PBR-G-LBP-120707-03	Room 168	Cabinet	Brown	<0.01
PBR-G-LBP-120707-04	Room 117B	Door	Blue	<0.01
PBR-G-LBP-120707-05	Room 267	Doorframe	Grey	<0.04

The paint finishes highlighted in blue in the above table were determined to contain low concentrations of lead which are less than or equal to 0.1%. These paint finishes were observed to be in fair and good condition.

The paint finishes highlighted in pink in the above table are considered lead-containing paints or surface coatings with concentrations greater than 0.1% lead by weight. These paint finishes were observed to be in fair condition.

All other paints throughout the subject building that are not mentioned in this report must be considered to be lead-containing unless sampling and analysis proves otherwise.

3.2.2 Battery Packs

MPL identified lead-containing acid battery packs throughout the subject building. These battery packs were observed on walls and above exits within the subject building.

Lead may also be present in the following materials in the building:

- Solder used on copper domestic water lines;
- Solder used in bell fittings for cast iron pipes;
- Solder used in electrical equipment;
- Ceramic tile glaze; and
- Concrete and mortar products, etc.

Recommendations

Paints identified to contain lead that are in fair condition should be either repaired (where possible) and/or closely monitored for signs of further deterioration.

Paints identified to contain lead that are in good condition and do not pose a risk to workers or occupants can be managed in place.

Detailed worker protection protocols are outlined in the OMOL Guideline "Lead on Construction Projects" dated April 2011. Generally, the removal of the lead-based paint with the use of a chemical gel or paste, or a power tool equipped with a HEPA filter is considered a Type 1 operation. The removal of lead-based paint by scraping or sanding using non-powered hand tools is considered a Type 2 operation. The removal of lead-based paint using abrasive blasting, or power tools without a HEPA filter, is considered a Type 3 operation, and requires the most stringent worker protection protocols (similar to asbestos); Furthermore, high temperature cutting or welding would also require Type 3 Operations under the Guideline for Lead on Construction Projects. If this type of work is required, it may be prudent to chemically remove the lead paint in selected locations prior to performing any high temperature cutting or welding.

All lead materials that are removed must follow the Ministry of Labour and Environmental Abatement Council of Ontario Lead Guidelines.

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, quantities (where applicable), and recommended actions.

Precautions should be taken as required during major renovations and demolition projects to ensure that workers' exposure levels to airborne lead does not exceed 0.05 mg/m3. This can be achieved by:

- o providing workers with proper training;
- o providing the workers with respiratory protection;
- o wetting the surface of the materials to prevent dust emissions; and,
- o providing workers with hygiene facilities to properly wash prior to exiting the work area.

Sub-trades working with or in close proximity to lead based paint should be informed of its presence.

All waste material must be handled and disposed of according to the Revised Regulation of Ontario 347/90 as amended – made under the Environmental Protection Act. Lead waste generated may also be subject to Leachate Criteria (Schedule 4) of this regulation.

3.3 Mercury

Findings

3.3.1 Thermostat Switches

MPL observed thermostats containing liquid mercury within the subject building.

3.3.2 Fluorescent Light Tubes

MPL identified fluorescent light fixtures throughout the surveyed area containing 2 to 4 fluorescent light tubes per fixture. Mercury is likely to be present in vapor form in the fluorescent light tubes.

3.3.3 Pressure Gauges and Float Switches

MPL identified any pressure gauges containing liquid mercury throughout the subject building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, quantities (where applicable), and recommended actions.

3.4 Silica

Findings

Silica is expected to be present in building materials such as concrete, brick, mortar and ceramic tiles located throughout the structures. Free crystalline silica (α -Quartz) may be a component in ceiling tiles and gypsum board. Silica (including free crystalline silica) may also be a component of concrete and brick surfaces noted in the building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, quantities (where applicable), and recommended actions.

Precautions should be taken as required during major renovations and demolition projects on concrete (i.e. coring through concrete slabs, demolition of masonry, etc.) to ensure that workers' exposure levels to airborne silica does not exceed 0.05 mg/m³.

This can be achieved by:

- o providing workers with proper training;
- o providing the workers with respiratory protection;
- o wetting the surface of the materials to prevent dust emissions; and,
- o providing workers with facilities to properly wash prior to exiting the work area.

Demolition work that is likely to impact silica-containing materials should be carried out in accordance with the requirement detailed in the Ontario Ministry of Labour document entitled "Guideline: Silica on Construction Projects", dated April 2011.

Other Hazardous Materials

3.5 Polychlorinated Biphenyls (PCBs)

Findings

3.5.1 Light Ballasts

The subject building is illuminated by LED and fluorescent lights. MPL assessed representative ballasts in the building, and these ballasts were suspected to contain PCBs. These light ballasts were observed to be manufactured by Sylvania.

3.5.2 Transformers

MPL did observe any PCBs containing electrical transformer (Rex Power Mechanics, Bemag and Delta) within the subject building. Transformers that could be assessed were observed to be dry-type.

Recommendations

Prior to any renovations or demolition of the building, all equipment containing PCBs must be decommissioned by a licensed contractor such that PCBs are contained and not released to the environment during decommissioning as per O.Reg. 347/09.

3.6 Ozone Depleting Substances (ODSs) and Other Halocarbon

Findings

A visual assessment for equipment potentially containing ODSs and other halocarbons was conducted. Equipment containing ODSs or other halocarbons was observed in the subject building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, approximate quantities (where applicable), and recommended actions.

Under the management of a licensed contractor, equipment containing R410a, R32, and R-134a does not represent a significant threat to human health or the environment however, a licensed contractor must decommission equipment such that CFCs are contained and not released to the environment during servicing or operation.

3.7 Radioactive Materials

Findings

A visual assessment of the subject building was conducted to determine if any electrical components containing radioactive materials were present. MPL did not observe any electrical components containing radioactive materials.

Recommendations

The radioactive sources in smoke alarms are sealed and contained within a metal case inside the smoke detector and must not be damaged or tampered with. These materials do not pose a hazard as long as they remain contained and properly disposed at the time of removal or replacement.

Prior to any renovations or demolition of the building, all equipment containing radioactive materials must be decommissioned by a licensed contractor such that radioactive materials are contained and not released to the environment during decommissioning as per O.Reg. 347/09.

Since no radioactive materials were observed or suspected to be present during the site survey, no further action is required.

3.8 Underground and Above Ground Storage Tanks (USTs and ASTs)

Findings

A visual survey of the subject building was conducted to determine if any USTs and ASTs were present. MPL did not observe an above ground diesel storage tank within the subject building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, quantities (where applicable), and recommended actions.

Prior to any renovation/demolition in the building, all USTs and ASTs equipment must be decommissioned by a licensed contractor such that substances are contained and not released to the environment during decommissioning.

3.9 Mould

Findings

3.9.1 Mould

A visual survey of the subject building was conducted to determine if any mould was present. MPL did not identify any areas with mould growth.

3.9.2 Water Damage

A visual survey of the subject building was conducted to determine if any water damaged was present. MPL identified select areas throughout the subject building, where materials were affected by water damage.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, quantities (where applicable), and recommended actions.

Water stained/damaged ceiling tiles observed throughout the subject building should be replaced as part of regular maintenance and the underlying cause of the water leakage should be identified and repaired.

This report should be made available to contractors tendering on any renovation or demolition work. In turn, all contractors requesting tenders from subcontractors shall furnish this report to subcontractors

4.0 GENERAL CONSIDERATIONS AND LIMITATIONS

The information presented in this report is based on information provided by others, direct visual observation made by personnel with McIntosh Perry Limited (MPL), and the results of laboratory testing as identified herein.

It should be noted that there might be hazardous materials in locations not visible during our investigation. In the event such material is encountered during demolition operations in the building, this material should be tested and dealt with accordingly.

The findings detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations.

MPL does not certify or warrant the environmental status of the property nor the building on the property.

Please note that the passage of time affects the information provided in the report. Environmental conditions of a site can change. Opinions relating to the site conditions are based upon information that existed at the time that the conclusions were formulated.

The client expressly agrees that it has entered into this agreement with MPL, both on its own behalf and as agent on behalf of its employees and principals.

The client expressly agrees that MPL's employees and principals shall have no personal liability to the client in respect of a claim, whether in contract, tort and/or any other cause of action in law. Accordingly, the client expressly agrees that it will bring no proceedings and take no action in any court of law against any of MPL's employees or principals in their personal capacity.

We trust that we have detailed our findings clearly and that we have satisfactorily addressed the scope of work you require at this time. In the event you wish us to review our findings with you, or require our services further in this regard, please do not hesitate to contact our office.

Yours truly,

MCINTOSH PERRY LIMITED

Lauren Hamilton, B.Eng.

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APPENDIX A

Regulatory Requirements

REGULATORY REOUIREMENTS

In Ontario, there is a total of eleven Designated Substances. These substances have been regulated under Ontario Regulation 490/09 — *Designated Substances*, made under the Ontario Health and Safety Act, which applies to controlling designated substances in the workplace.

In addition to the Ontario Regulation 490/09 noted above, the following were observed for this survey:

<u>Guideline: Lead on Construction Projects</u>, issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour

<u>Guideline: Silica on Construction Projects</u> issued April 2011 by the Occupational Health and Safety branch of the Ministry of Labour.

<u>The Occupational Health and Safety Act</u> (OHSA), R.S.O. 1990, c.O.1, s.30 (1) specifies that: "Before beginning a project, the owner shall determine whether any Designated Substances are present at the project site and shall prepare a list of all Designated Substances that are present at the site.

Section 30 of <u>The Act</u> requires that the list of Designated Substances be provided to prospective contractors and subcontractors who may do work on a site and come into contact at the site with Designated Substances.

The Ministry of Labour has designated the following substances:

Acrylonitrile

Arsenic

Asbestos

Benzene

Coke Oven Emissions

Ethylene Oxide

Isocyanates

Lead

Mercury

Silica

· Vinyl Chloride

Ontario Regulation 278/05 (O. Reg. 278/05), the Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations, made under the <u>Occupational Health and Safety Act (OHSA)</u>, requires owners of a building to identify Asbestos-containing Materials (ACMs) prior to potential disturbance of the materials.

In addition, an owner of a building is required to have an Asbestos Management Plan (AMP) if ACMs (friable or non-friable) are present in the building and are to remain in place. An inventory of ACMs must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities. Removal of all asbestos-containing materials is required prior to building demolition.

In addition to the Designated Substances, the building was also surveyed for the presence of other hazardous materials such as polychlorinated biphenyls (PCBs), radioactive materials, ozone depleting substances (ODSs), other halocarbons, and mould.

We understand that this survey has been conducted to comply with the regulatory requirements of Ontario Regulation 278/05.

APPENDIX B

Survey Methodology & Background Information

SURVEY METHODOLOGY

For the purpose of this survey, not all Designated Substances or suspect hazardous material were sampled. Selective sampling was carried out only for substances that were suspected to be present or those deemed to have a likely source of origin in the survey areas.

Materials that were homogeneous in nature and/or similar in appearance to other materials tested were considered to be of similar composition. The likelihood of ACMs being present in inaccessible areas such as above gypsum board ceilings or behind gypsum wallboards was determined by assessing the presence of asbestos-containing systems in adjacent areas. Equipment such as boilers, motors, blowers, electrical panels, fire doors etc., were not de-energized or disassembled to examine internal components or materials. These items should be considered to contain hazardous materials until proven otherwise.

During the survey, representative samples of suspect building materials were collected and sent to CAELA accredited independent laboratory for analysis. Laboratory Certificate of Analysis are attached in Appendix C.

Other potential hazardous materials were identified by visual observation and/or by reviewing Material Safety Data Sheets (MSDS) and/or safety labels where available.

Investigated Areas

The survey included all accessible areas and ceiling space within 600 King Edward Avenue as required under our scope of work. No destructive investigations were performed as part of this survey. Photographs of the areas investigated can be found in Appendix D.

The assessment was directed on the interior structure and finishes of the building. It did not consider current or past owner or occupant articles within the building (i.e. contents, furniture, etc.) and does not report on possible contaminants in the soil under and surrounding the building, or contents of vessels, drums, etc. that may be concealed.

Sampling and Assessment Methodologies

Sampling was conducted as part of this assessment. Results for asbestos and lead samples can be found in the Findings & Recommendation Section 3.0.

A historical review of previous designated substance survey reports and abatement reports was examined as part of this survey. Due to concerns regarding certain historical analytical results, mainly in 2008 and prior years, confirmatory re-sampling was conducted for selected materials previously identified not to contain asbestos. However, building materials previously identified to be asbestos-containing were not re-sampled. The reports are listed as follows,

- Designated Substance Survey, 139 141 Louis Pasteur, Ottawa, Ontario, prepared by Conestoga-Rovers & Associates (dated August 2008, reference # 045870 (100));
- Project Specific Designated Substance Survey- Postal Service 141 Louis Pasteur- prepared by EHS Partnership Limited (dated September 2012, reference # 04-0033-12-031);
- Project Specific Designated Substance Survey- Maintenance Area 141 Louis Pasteur- prepared by EHS Partnership Limited (dated September 2012, reference # 04-0033-12-031);

Asbestos

Background Information on Asbestos

Asbestos is a generic name that has been given to a group of naturally occurring fibrous minerals. In the past, asbestos was commonly used as a component in building materials such as insulation, fireproofing and acoustic or decorative panels. Although there are many types of asbestos, the three main forms of commercial importance in Ontario are chrysotile, amosite and crocidolite.

An Asbestos-Containing Material (ACM) is defined by O. Reg. 278/05 as a material that contains 0.5% or more asbestos by dry weight. ACMs are placed into two general classes, "friable" and "non-friable" ACMs. Friable ACMs are those materials that when dry can be crumbled, pulverized and reduced to powder by hand pressure. Typical friable ACMs include acoustical or decorative texture coats, fireproofing and thermal insulation. Non-friable ACMs are much more durable as they are held together by a binder such as cement, vinyl or asphalt. Typical non-friable ACMs include floor tiles, fire blankets, roofing materials and cementitious products such as wallboards, pipes or siding.

It has been recognized that hazardous situations may exist in buildings where asbestos-containing materials are found. This is especially true where asbestos fibres may become airborne as a result of material ageing, physical damage, and water damage or air movement.

In contrast, there is little reason for concern if the asbestos is in good condition, has not been damaged and is not in a location where it is likely to be disturbed.

Asbestos Survey Methodology

The asbestos survey included the identification of potential friable and non-friable asbestos-containing materials within the surveyed areas of the subject building.

The likelihood of ACMs being present in inaccessible areas such as above gypsum wallboard ceilings and walls was determined by assessing the presence of asbestos-containing materials in adjacent areas.

Fiberglass insulation was not submitted for analysis as it can be identified visually as non-asbestos material.

Building materials suspected of containing asbestos were identified and representative sampling and laboratory testing of these materials was conducted. The number of bulk material samples collected from a homogeneous area was in accordance with Table 1. O. Reg. 278/05 s. 3 (3) below. Building materials suspected of containing asbestos were collected using wetting techniques and hand sampling tools.

Table 1 - O. Reg. 278/05 s. 3(3): Minimum Asbestos Bulk Material Sample Requirements

Item	Type of material	Size of area of homogeneous material	Minimum number of bulk material samples to be collected
1.	Surfacing material, including without limitation, material that is applied to surfaces by spraying, by troweling or	Less than 90 square metres	3
		90 or more square metres, but less than 450 square metres	5

	otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	450 or more square metres	7
2.	Thermal insulation, except as described in item 3	any size	3
3.	Thermal insulation patch	Less than 2 linear metres or 0.5 square metres	1
4.	Other material	Any size	3

Preliminary identification of the samples was made using polarized light microscopy (PLM), with confirmation of presence and type of asbestos made by dispersion staining optical microscopy. This analytical procedure follows the U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials, June 1993.

All bulk samples were analysed for asbestos content by EMSL Canada Inc. (EMSL), an independent laboratory. EMSL is an independent laboratory accredited by National Institute of Standards and Technology/National Voluntary Laboratory Accreditation (NIST/NVLAP) (Lab Code #200877-0).

Vinyl floors tiles were analyzed using the phase light microscopy (PLM) method of analysis. However, given the composition of vinyl floor products, the PLM analysis method may be prone to yielding false negative analytical results. Therefore, prior to removal or replacement, vinyl floor products previously identified to be negative, should undergo additional analysis by Transmission Electron Microscopy (TEM) to confirm asbestos content, if any.

Materials identified to contain asbestos were assessed on the relative possibility of fibre release into the air due to a combination of their condition and accessibility.

Evaluation of ACMs Based on Condition

In evaluating an ACM's condition, the following criteria was applied:

- Good Material shows no signs of damage and/or is encapsulated. Asbestos-containing material could remain in place until eventual building demolition or major renovation.
- Fair Material shows signs of minor damage (<5% damage) or otherwise near the end of useful life. This includes minor shrinking, cracking, delamination and/ or other damage. Material should be monitored closely and scheduled to be repaired, encapsulated or removed.
- Poor Damage is greater than 5% to any ACM material and is highly recommended to be removed, repaired or encapsulated.

Note: The above evaluation criteria was also applied to other hazardous materials where applicable. Please refer to the Asbestos and Hazardous Materials Checklist in Appendix E & F for further details.

Lead

Background Information on Lead

Lead was a common additive in exterior and hard-wearing paint applications. Lead was used to prolong shelf life of paint and to increase its flexibility and durability to wear and weather. Acute exposure to lead by inhalation or ingestion may cause headaches, fatigue, nausea, abdominal cramps and joint pain. Chronic

exposures can cause reduced haemoglobin production and reduced lifespan. It has also been known to impact the body's central and peripheral nervous systems and brain function and has been linked to learning disabilities in children.

Currently in Ontario, there is no regulatory limit that determines what concentration of lead constitutes a "lead containing material". On October 21, 2010, Health Canada, under the *Hazardous Products Act*, stated that the lead content in surface-coating materials, furniture, toys and other articles for children, should not exceed 90 mg/kg (0.009%, 90 ppm). However, this is intended for the importation or sale of products within Canada. Therefore, this is not to be misconstrued as a limit established to define a lead-containing material or a limit with respect to lead on construction projects.

The Environmental Abatement Council of Canada (EACC) has also developed the "Lead Guideline for Construction, Renovation, Maintenance or Repair" dated October 2014, which discusses the classification, handling, disturbance and removal of lead-containing materials. For the purpose of this guideline, paints or surface coatings containing less than or equal to 0.1% lead by weight (1000 mg/kg or 1000 ppm) are considered low-level lead paints or surface coatings. If these materials (and their respective surfaces) are disturbed in a non-aggressive manner and performed using adequate dust control procedures, then worker protection from the inhalation of lead is not required.

Furthermore, paints or surface coatings containing greater than 0.1% lead by weight are considered lead-containing paints or surface coatings. If these materials (and their respective surfaces) are disturbed, appropriate lead abatement procedures must always be followed.

Exposure to lead-containing materials is regulated under Ontario Regulation 490/09, *Designated Substances* made under the Occupational Health and Safety Act. Care must be taken to prevent lead-containing particles from becoming airborne during the disturbance of lead-containing surfaces (i.e., during renovation or demolition projects). All lead abatement work must follow procedures outlined in the <u>Guideline Lead on Construction Projects</u>, issued in September 2004 (amended in April 2011) by the Occupational Health and Safety branch of the Ministry of Labour (Type 1-3). Similarly, the lead abatement work procedures outlined in the <u>EACC Lead Guideline for Construction, Renovation, Maintenance or Repair</u> (October 2014) may also be implemented (Class 1-3).

Lead is known to have been used in solder on copper plumbing fixtures, in lead conduit pipes, in lead-calcium battery plates, ammunition, and in nuclear and X-ray shielding devices. However, these materials were not sampled during this investigation, but were noted where applicable.

To verify lead content in paints, representative bulk samples of paint and finishes suspected of containing lead were collected. Bulk samples were scraped down to the building base structure, with all possible layer's present, placed in sealed plastic bags and labeled; and then submitted to an independent laboratory for analysis. Samples were treated with a dilute nitric acid sample digestion prior to filtration. Analysis utilized for lead detection in filtered samples was inductively coupled plasma optical emission spectrometry (ICP-OES).

Mercury

Background Information on Mercury

Mercury is known to cause poisoning in humans through the inhalation of vapours, ingestion of contaminated materials or skin absorption through direct contact with the liquid.

Precautions must be taken to prevent mercury vapours from becoming airborne during renovations or demolition of the building. Exposure to airborne mercury is regulated under the Revised O. Reg. 490/09 as amended – Regulation respecting Mercury – made under the Occupational Health and Safety Act; and under O. Reg. 558, which amended O. Reg. 347/90 (General - Waste Management), mercury is classified as a Schedule 2(b) Hazardous Waste Chemical. Its hazardous waste number is U151.

Mercury is found in products such as thermostats, temperature and pressure gauges, fluorescent lamps and batteries. Mercury in products can be released to the environment through breakage, or disposal at the end of a product's useful life. Improper disposal of these mercury products poses a health and environmental risk to everyone. In addition, the disposal of mercury-containing products can create wastes that are often classified as hazardous. Wastes that leach mercury in concentrations exceeding Ontario Regulation 347/90 (General - Waste Management) limits are also considered hazardous.

The mercury in thermostats switch contains approximately 3-4 grams of mercury in a glass ampoule, typically attached to a metal coil. Mercury-containing switches have been used in thermostats for over 40 years.

Mercury is an essential component in fluorescent lamps and HID lamps. The mercury is in a vapour form and in the phosphor coating on the lamp tube. Estimates of the mercury content contained in compact, 4 foot, and 8-foot lamps are 10 mg, 23 mg, and 46 mg respectively.

Most fluorescent lamps qualify as hazardous waste when removed from service and are therefore prohibited from disposal in the solid waste stream. Fluorescent lamps would be classified as 146T on your facility Generator Registration Report under O. Reg. 347/90 - General Waste Management, as amended by O. Reg. 558/00. Under this regulation, if the leachate results exceed 0.1 milligrams of mercury per litre for a given waste, then the facility must treat the waste as hazardous waste. Most fluorescent and HID lamps will exceed the leachate toxicity limit; therefore, these wastes must be registered and treated as hazardous waste or sent for recycling.

Silica

Background Information on Silica

Silica is expected to be present in building materials such as concrete, brick, mortar and ceramic tiles located throughout the structures. Free crystalline silica (②-Quartz) may be a component in ceiling tiles and gypsum board. Silica (including free crystalline silica) may also be a component of concrete and brick surfaces noted in the building.

Exposure to airborne silica is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act.

Polychlorinated Biphenyls (PCBs)

Background Information on PCBs

Polychlorinated Biphenyls (PCBs) were commonly used as dielectric insulating fluid in electrical equipment such as transformers and capacitors, and in the fluorescent and HID lamp ballasts. The production of PCBs in the North America started in 1929 and was banned at the beginning of 1979. After 1981, no manufacturers produced fluorescent and HID lamps with PCB-containing ballasts.

PCBs are not a designated substance under the Occupational Health and Safety Act.

PCB Regulations (SOR/2008-273)

The *PCB Regulations* (the Regulations) set specific deadlines for ending the use of PCBs in concentrations at or above 50 mg/kg, eliminating all PCBs and equipment containing PCBs currently in storage and limiting the period of time PCBs can be stored before being destroyed. The Regulations also establish sound practices for the better management of the remaining PCBs in use (i.e. those with content of less than 50 mg/kg), until their eventual elimination, to prevent contamination of dielectric fluids and dispersion of PCBs in small quantities into other liquids.

Ozone Depleting Substances (ODSs) and Other Halocarbons

Background Information on ODSs

Within Ontario, the general use of ozone depleting substances (ODSs) and other halocarbons is controlled through Regulation 463/10 of the Environmental Protection Act. Production of ODSs in the form of hydro chlorofluorocarbons (HCFCs) and chlorofluorocarbons (CFCs) ceased in Canada in 1993 as a result of their ozone-depleting characteristics. Importation of CFCs into Canada ceased in 1997 and total ban was placed on their use since 2010. The use of these materials is still permitted in existing equipment, but equipment must be serviced by a licensed contractor such that CFCs are contained and not released to the environment during servicing or operation.

Radioactive Materials

There are two types of smoke detectors commonly found in building (residential, institutional, commercial, industrial, etc). Photoelectric-type smoke detectors detect smoke using an optical sensor, whereas ionization-type smoke detectors use an ionization chamber containing radioactive material. The ionization type is cheaper and is particularly common in older buildings. A typical modern detector contains about 1.0 microcurie of the radioactive element americium, a decrease from 3 microcurie in 1978. The use of sealed radioactive material sources in fire detection systems is still permitted and regulated by the Canadian Nuclear Safety Commission (CNSC) and the Canadian Nuclear Safety Act. The radioactive sources in smoke alarms are sealed and contained within a metal case inside the smoke detector and must not be damaged or tampered with.

Mould & Water Damage

Mould growth inside buildings is due to excess moisture caused by leakages, condensation or capillary movement of water into the building. Toxic moulds such as *Stachybotrys chartarum* and some species of *Aspergillus* spp. are greenish-black, wet and slimy moulds that grow on soaking wet cellulose-based materials. They are often found near water leaks or where drying is very slow and can form after flooding if insufficient cleanup and drying occurred. They will generally not occur if materials are kept dry.

MPL conducted a general visual assessment for any obvious signs of visible mould and/or water damage. Based on our visual observations, the following guidelines were used in providing our recommendations for remedial action where required:

 Institute of Inspection Cleaning and Restoration Certification (IICRC) S520 Standard and Reference for Professional Mould Remediation,

- The Canadian Construction Association (CCA) Mould Guidelines for the Canadian construction industry (CCA document 82-2004)
- Environmental Abatement Council of Canada (EACC) Mould Abatement Guidelines.

Other Designated Substances

Select Designated Substances (acrylonitrile, arsenic, coke oven emissions, ethylene oxide, isocyanates, benzene, or vinyl chloride) are not expected to be present in the building in matrix or sufficient quantities to cause an exceedance of Ministry of Labour exposure guidelines. As such, no sampling was conducted for these materials.

Vinyl Chloride

Vinyl chloride (monomer) is likely to be present in stable form within poly vinyl-chloride (PVC) piping and conduits and as a component of interior finishes. Such building materials are not considered to be hazardous in their current matrix/composition.

Acrylonitrile

Acrylonitrile or ACN (also known as vinyl cyanide) is an explosive, flammable liquid used in the manufacture of acrylic fibres, rubber-like materials and pesticide fumigants. Acrylonitrile was not noted and would not be expected to be present in the project specific area/surveyed area/subject building.

Arsenic

Arsenic is used in metallurgy for hardening copper, lead and alloys, in pigment production, in the manufacture of certain types of glass, in insecticides, fungicides and rodenticides, as a by-product in the smelting of copper ores, and as a dopant material in semiconductor manufacturing. Arsenic or arsenic compounds were not noted and are not expected to be present in the project specific area/surveyed area/subject building.

Benzene

Benzene or benzol is a colourless liquid. It is used as an intermediate in the production of styrene, phenol, cyclohexane, and other organic chemicals, and in the manufacture of detergents, pesticides, solvents, and paint removers. It is also found in gasoline. Benzene may be present in stable form in roofing materials, paints and adhesives located throughout the subject building. Such building materials are not considered to be hazardous in their current matrix/composition.

Coke Oven Emissions

Coke oven emission is benzene soluble fraction of total particulate matter of the substances emitted into the atmosphere from metallurgical coke ovens.

Ethylene Oxides

Ethylene oxide is a colourless gas liquefying below 12°C. It is used generally as a fumigant and sterilizing agent for medical equipment. It is used generally as a fumigant and sterilizing agent for medical equipment.

Isocyanates

Isocyanates compounds may be present in stable form in paint finishes, varnishes, and polyurethane plastics, synthetic rubbers, foams and adhesives. Such building materials are not considered to be hazardous in their current matrix/composition.

In order to reduce the potential for exposure to workers or occupants, any suspect hazardous building material(s) that are not detailed within this survey due to inaccessibility and/or are discovered during renovation/demolition activities, must be properly assessed and/or tested prior to their disturbance.

APPENDIX C

Laboratory Analytical Reports



Client Sample ID:

Client Sample ID:

EMSL Canada Inc.

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 672000862 55CTCS25B Customer ID: 0Z2-021101 Customer PO: Ottawa DSS Project ID:

Lab Sample ID:

672000862-0002

Attn: Stefan Holik

McIntosh Perry Consulting Engineers Ltd

115 Walgreen Rd RR 3 Carp, ON K0A 1L0

Phone:

(613) 836-2184

Fax:

Collected: 5/25/2020 Received: 6/04/2020

Analyzed: 6/11/2020

Proj: University of Ottawa 0Z2-021101 (129, 139, 141 Louis Pasteur) (Ottawa DSS)

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

Lab Sample ID: 672000862-0001 Client Sample ID: 1.1-Vinyl Floor Tile 1

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

Analyzed Non-Asbestos TEST Date Color **Fibrous** Non-Fibrous Comment Asbestos PLM 6/09/2020 Beige 0.0% 95.0% 5% Chrysotile Lab Sample ID: 672000862-0001A Client Sample ID: 1.1-Mastic

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

Analyzed Non-Asbestos **TEST** Date Color Fibrous Non-Fibrous Asbestos Comment PLM 6/09/2020 Black 0.0% 100.0% None Detected Lab Sample ID: 672000862-0001B

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

1.1-Vinyl Floor Tile 2

Non-Asbestos Analyzed **TEST** Date Fibrous Non-Fibrous Comment Color Asbestos PLM 6/09/2020 Gray 0.0% 100.0% None Detected

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

Analyzed Non-Asbestos **TEST** Date Non-Fibrous Asbestos Comment Color **Fibrous** PLM 6/09/2020 Gray 0.0% 100.0% None Detected

Client Sample ID: 1.2-Mastic Lab Sample ID: 672000862-0002A

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

Non-Asbestos Analyzed TEST Date Fibrous Non-Fibrous Comment Color Asbestos PLM 6/09/2020 Insufficient Material Lab Sample ID: 672000862-0003 Client Sample ID: 1.3-Vinyl Floor Tile

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

Analyzed Non-Asbestos **TEST** Date Color **Fibrous** Non-Fibrous Asbestos Comment PLM 6/11/2020 Gray 0.0% 100.0% None Detected 672000862-0003A 1.3-Mastic Lab Sample ID: Client Sample ID:

Sample Description: 129, 139, 141 Louis Pasteur/VFT - light and dark grey smudges - Room 177

Analyzed Non-Asbestos **TEST** Fibrous Non-Fibrous Comment Date Color Asbestos PLM 6/11/2020 Insufficient Material



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EMSL Canada Order 672000862 55CTCS25B Customer ID: 0Z2-021101 Customer PO: Ottawa DSS Project ID:

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

				OO/ 110 MICH			
Client Sample ID:	2.1					Lab Sample ID:	672000862-0004
Sample Description:	129, 139, 141 Louis Paster	ur/VFT - white with	grey streaks -	Room 176			
	Analyzod		Non	-Asbestos			
TEST	Analyzed Date	Color	Fibrous		Asbestos	Comment	
PLM	6/09/2020	Gray/White	0.0%		5% Chrysotile		
Client Sample ID:	2.2				· · · · · · · · · · · · · · · · · · ·	Lab Sample ID:	672000862-0005
Sample Description:	129, 139, 141 Louis Pasteu	ır/VFT - white with	arev streaks -	Room 176			0.200002
	123, 100, 141 200131 03100	an vi i winte with	grey streams	rtoom 170			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020			Positiv	ve Stop (Not Analyzed)		
Client Sample ID:	2.3					Lab Sample ID:	672000862-0006
Sample Description:	129, 139, 141 Louis Paster	ur/VFT - white with	grey streaks -	Room 176			
	Analyzed			-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020			Positiv	ve Stop (Not Analyzed)		
Client Sample ID:	3.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0007
Sample Description:	129, 139, 141 Louis Paster	ur/VFT - white/grey	mix - Room 2	81			
	A a b a d		N	Ashastas			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Gray	0.0%	100.0%	None Detected		
						Lab Sample ID:	672000862-0007A
Client Sample ID: Sample Description:	3.1-Mastic			0.4		Lab Sample ID.	0/2000002-000/A
Sample Description.	129, 139, 141 Louis Paster	ur/vFT - white/grey	mix - Room Z	81			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	3.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0008
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white/grey	mix - Room 2	81			
	, ,	0 ,					
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	3.2-Mastic					Lab Sample ID:	672000862-0008A
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white/grey	mix - Room 2	81			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Beige	Fibrous 0.0%		None Detected	Comment	
					. tono Dottottod	Lah Samala ID:	672000862 0000
Client Sample ID:	3.3-Vinyl Floor Tile			• 4		Lab Sample ID:	672000862-0009
Sample Description:	129, 139, 141 Louis Paste	ur/VF I - white/grey	mix - Room 2	81			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous		Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%		None Detected		



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

			El Accont con l'ichine			
Client Sample ID:	3.3-Mastic				Lab Sample ID:	672000862-0009A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white/gre	y mix - Room 281			
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020			Insufficient Material		
Client Sample ID:	4.1-Vinyl Floor Tile				Lab Sample ID:	672000862-0010
Sample Description:	•	VFT - white with	blue, orange and black specks	- Room 179	•	
TFOT	Analyzed	0.1	Non-Asbestos	A-1		
TEST PLM	6/09/2020	Color White	Fibrous Non-Fibrous 0.0% 100.0%	Asbestos None Detected	Comment	
		vviille	0.0% 100.0%	None Detected	1.1.0	070000000000000
Client Sample ID:	4.1-Mastic				Lab Sample ID:	672000862-0010A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	blue, orange and black specks	- Room 179		
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Black	0.0% 100.0%	None Detected		
Client Sample ID:	4.2-Vinyl Floor Tile				Lab Sample ID:	672000862-0011
Sample Description:	•	VFT - white with	blue, orange and black specks	- Room 179		
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	White	0.0% 100.0%	None Detected		
Client Sample ID:	4.2-Mastic				Lab Sample ID:	672000862-0011A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	blue, orange and black specks	- Room 179		
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Black	0.0% 100.0%	None Detected		
Client Sample ID:	4.3-Vinyl Floor Tile				Lab Sample ID:	672000862-0012
Sample Description:	•	VFT - white with	blue, orange and black specks	- Room 179	<i>F</i>	
,	0, .00,		, orango and black opcole			
	Analyzed		Non-Asbestos		_	
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0% 100.0%	None Detected		
Client Sample ID:	4.3-Mastic				Lab Sample ID:	672000862-0012A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	blue, orange and black specks	- Room 179		
	Analyzod		Non-Asbestos			
TEST	Analyzed Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020			Insufficient Material		
Client Sample ID:	5.1			<u> </u>	Lab Sample ID:	672000862-0013
Sample Description:		VSF - white with	n light and dark green spots - Ro	nom 178R		
prc Description.	129, 139, 141 Louis Pasteur	vor - wille will	riigiit aliu uark green spots - Ro	JUIII I / OD		
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	

6/09/2020

Gray/Yellow

35.0%

65.0%

PLM

Inseparable mastic



5.2

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EMSL Canada Order 672000862 55CTCS25B Customer ID: 0Z2-021101 Customer PO: Ottawa DSS Project ID:

Lab Sample ID:

672000862-0014

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

ment Sample ID.	5.2					Lab Sample ID.	072000002-0014
Sample Description:	129, 139, 141 Louis Pasteur	VSF - white with	n light and dark	green spots - Room	178B		
	Analymad		N	Ashastas			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/09/2020	Gray	35.0%	65.0%	None Detected		
Client Sample ID:	5.3					Lab Sample ID:	672000862-0015
Sample Description:	129, 139, 141 Louis Pasteur.	VSF - white with	n light and dark	green spots - Room	178B		
			Ü				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	35.0%	65.0%	None Detected		
Client Sample ID:	6.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0016
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	n grey marks - F	Room 178A			
	Analyzed			-Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	6.1-Mastic					Lab Sample ID:	672000862-0016A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	n grey marks - F	Room 178A			
TEOT	Analyzed	0-1-		-Asbestos	Asharta	Com	
TEST PLM	6/10/2020	Color Black	0.0%	Non-Fibrous 100.0%	Asbestos None Detected	Comment	
		Diack	0.070	100.076	None Detected		
Client Sample ID:	6.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0017
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	n grey marks - F	Room 178A			
	Analyzad		Non	-Asbestos			
TEST	Analyzed Date	Color			Asbestos	Comment	
PLM	6/10/2020	White	0.0%		None Detected		
Client Sample ID:	6.2-Mastic					Lab Sample ID:	672000862-0017A
Sample Description:	129, 139, 141 Louis Pasteur.	N/ET white with	arov marka E	200m 179A			0.200002
oumpie Description.	129, 139, 141 Louis Fasteur	VFI - WIIILE WILI	i grey marks - r	ROOM 176A			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	6.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0018
Sample Description:	129, 139, 141 Louis Pasteur.	VFT - white with	n grey marks - F	Room 178A			
			· •				
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM 	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	6.3-Mastic					Lab Sample ID:	672000862-0018A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	n grey marks - F	Room 178A			
	Analyzed			-Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Black	0.0%	100.0%	None Detected		



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EMSL Canada Order 672000862 55CTCS25B Customer ID: 0Z2-021101 Customer PO: Ottawa DSS Project ID:

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

							
Client Sample ID:	7.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0019
Sample Description:	129, 139, 141 Louis Pasteu	ur/VFT - white with	very light grey	smudges - Room 1	24		
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	7.1-Mastic					Lab Sample ID:	672000862-0019A
Sample Description:	129, 139, 141 Louis Pasteu	ur/VFT - white with	very light grey	smudges - Room 1	24		
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	Black	0.0%	98.0%	2% Chrysotile		
Client Sample ID:	7.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0020
Sample Description:	129, 139, 141 Louis Pasteu	ur/VFT - white with	very light grey	smudges - Room 1	24		
	Analyzed		Non-	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	7.2-Mastic					Lab Sample ID:	672000862-0020A
Sample Description:	129, 139, 141 Louis Pasteu	ur/VFT - white with	very light grey	smudges - Room 1	24		
	Analyzed			Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020			Positive	e Stop (Not Analyzed)		
Client Sample ID:	7.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0021
Sample Description:	129, 139, 141 Louis Pasteu	ır/VFT - white with	very light grey	smudges - Room 1	24		
	Analyzed			Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	7.3-Mastic					Lab Sample ID:	672000862-0021A
Sample Description:	129, 139, 141 Louis Pasteu	ur/VFT - white with	very light grey	smudges - Room 1	24		
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020			Positive	e Stop (Not Analyzed)		
Client Sample ID:	8.1-Vinyl Sheet Flooring					Lab Sample ID:	672000862-0022
Sample Description:	129, 139, 141 Louis Pasteu	ur/VSF - white with	blue and red s	pecks - Room 180		•	
,				•			
TEOT	Analyzed	0-1-		Asbestos	A-L4:	Co	
TEST PLM	6/10/2020	Color White/Blue	45.0%	Non-Fibrous 55.0%	Asbestos None Detected	Comment	
		vviiite/blue	45.0%	JJ.U%	None Detected		
Client Sample ID:	8.1-Mastic					Lab Sample ID:	672000862-0022A
Sample Description:	129, 139, 141 Louis Pasteu	ur/VSF - white with	blue and red sp	pecks - Room 180			
	A						
	Analyzed		Non-	Asbestos			

Insufficient Material

6/10/2020



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

Client Sample ID:	8.2					Lab Sample ID:	672000862-0023
Sample Description:	129, 139, 141 Louis Paste	ur/VSF - white with	blue and red s	pecks - Room 180	0		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White/Blue	45.0%	55.0%	None Detected		
Client Sample ID:	8.3					Lab Sample ID:	672000862-0024
Sample Description:	129, 139, 141 Louis Paste	ur/VSF - white with	blue and red s	pecks - Room 180	0		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	45.0%	55.0%	None Detected		
Client Sample ID:	9.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0025
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White/Beige	0.0%	100.0%	None Detected		
Client Sample ID:	9.1-Mastic					Lab Sample ID:	672000862-0025A
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	9.1-Mastic 2					Lab Sample ID:	672000862-0025B
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020				Insufficient Material		
Client Sample ID:	9.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0026
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White/Beige	0.0%	100.0%	None Detected		
Client Sample ID:	9.2-Mastic					Lab Sample ID:	672000862-0026A
Sample Description:	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
· ·	.,,		J				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	9.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0027
Sample Description:	-			D 400		-	
Sample Description.	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
затріє Безсприот.	129, 139, 141 Louis Paste	ur/VFT - white with	beige marks -	Room 123			
затріє Description.	129, 139, 141 Louis Paste Analyzed	ur/VFT - white with	· ·	-Asbestos			

0.0%

100.0%

None Detected

6/11/2020

Gray



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EMSL Canada Order 672000862 55CTCS25B Customer ID: 0Z2-021101 Customer PO: Ottawa DSS Project ID:

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

			LI AUUU/IX	-33/110 Weth	ou		
Client Sample ID:	9.3-Mastic					Lab Sample ID:	672000862-0027A
Sample Description:	129, 139, 141 Louis Pasteur	VFT - white with	n beige marks -	Room 123			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	10.1					Lab Sample ID:	672000862-0028
Sample Description:	129, 139, 141 Louis Pasteur	'DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	10.2					Lab Sample ID:	672000862-0029
Sample Description:	129, 139, 141 Louis Pasteur	'DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%		None Detected		
Client Sample ID:	10.3					Lab Sample ID:	672000862-0030
Sample Description:	129, 139, 141 Louis Pasteur	'D.IC					
p. 2 decripación	120, 100, 171 LUUIS F asleui/	200					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	10.4					Lab Sample ID:	672000862-0031
Sample Description:	129, 139, 141 Louis Pasteur	'DJC					
	Analyzed			-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	10.5					Lab Sample ID:	672000862-0032
Sample Description:	129, 139, 141 Louis Pasteur	DJC					
	Austral		N	Ashastas			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/10/2020	White	0.0%		None Detected		
Client Sample ID:	10.6					Lab Sample ID:	672000862-0033
Sample Description:	129, 139, 141 Louis Pasteur	ID IC				_aa campio ibi	
campic Description.	129, 139, 141 Louis Pasteur	סומ					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	10.7	<u> </u>				Lab Sample ID:	672000862-0034
Sample Description:	129, 139, 141 Louis Pasteur	'DJC					
	Analyzed			-Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	White	0.0%	100.0%	None Detected		



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EMSL Canada Order 672000862 55CTCS25B Customer ID: 0Z2-021101 Customer PO: Ottawa DSS Project ID:

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

Client Sample ID:	11.1					Lab Sample ID:	672000862-0035
Sample Description:	129, 139, 141 Louis Pasteur	/Firestop caulkin	g - Room 262				
	A		AT.	Ashasts -			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Brown	0.0%	100.0%	None Detected	Odminent	
	11.2		2.370			Lab Sample ID:	672000862-0036
Client Sample ID:		/Fig. 1	. D 000			Lab Sample ID.	672000862-0036
Sample Description:	129, 139, 141 Louis Pasteur	/Firestop caulking	g - Room 262				
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Brown	0.0%	100.0%	None Detected		
Client Sample ID:	11.3					Lab Sample ID:	672000862-0037
Sample Description:	129, 139, 141 Louis Pasteur	/Firestop caulkin	g - Room 262			-	
- -	, , ,						
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Brown	0.0%	100.0%	None Detected		
Client Sample ID:	12.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0038
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - light and o	lark grey mix -	Room 142			
TEST	Analyzed	Color		-Asbestos	Anhestes	Commont	
TEST PLM	6/11/2020	Color Gray	0.0%	Non-Fibrous 100.0%	Asbestos None Detected	Comment	
		Glay	0.0%	100.070	Notic Defected	Lab Committee ID	672000000 0000
Client Sample ID:	12.1-Mastic			D 415		Lab Sample ID:	672000862-0038A
Sample Description:	129, 139, 141 Louis Pasteur	/VFI - light and o	ark grey mix -	Room 142			
	Analyzed		Non-	-Asbestos			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
	-	Color Black		Non-Fibrous	Asbestos None Detected	Comment	
PLM	Date		Fibrous	Non-Fibrous		Comment Lab Sample ID:	672000862-0039
PLM Client Sample ID:	Date 6/11/2020 12.2-Vinyl Floor Tile	Black	Fibrous 0.0%	Non-Fibrous 100.0%			672000862-0039
PLM Client Sample ID:	Date 6/11/2020	Black	Fibrous 0.0%	Non-Fibrous 100.0%			672000862-0039
PLM Client Sample ID:	Date 6/11/2020 12.2-Vinyl Floor Tile	Black	Fibrous 0.0% dark grey mix -	Non-Fibrous 100.0%			672000862-0039
Client Sample ID: Sample Description: TEST	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date	Black /VFT - light and o	Fibrous 0.0% dark grey mix - Non- Fibrous	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous			672000862-0039
PLM Client Sample ID: Sample Description: TEST	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed	Black /VFT - light and o	Fibrous 0.0% dark grey mix -	Non-Fibrous 100.0% Room 142 -Asbestos	None Detected	Lab Sample ID:	672000862-0039
PLM Client Sample ID: Sample Description: TEST PLM	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date	Black /VFT - light and o	Fibrous 0.0% dark grey mix - Non- Fibrous	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous	None Detected Asbestos	Lab Sample ID:	672000862-0039 672000862-0039A
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020	Black /VFT - light and o Color Gray	dark grey mix - Non- Fibrous 0.0%	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0%	None Detected Asbestos	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur	Black /VFT - light and o Color Gray	Fibrous 0.0% dark grey mix - Non- Fibrous 0.0% dark grey mix -	Non-Fibrous 100.0% Room 142 Asbestos Non-Fibrous 100.0% Room 142	None Detected Asbestos	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur Analyzed	Black //FT - light and of Color Gray //FT - light and of	Fibrous 0.0% dark grey mix - Non- Fibrous 0.0% dark grey mix -	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0% Room 142 -Asbestos	Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur Analyzed Date	Black //FT - light and of Color Gray //FT - light and of Color	dark grey mix - Non- Fibrous 0.0% dark grey mix - Non- Fibrous	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous	Asbestos Asbestos Asbestos	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020	Black //FT - light and of Color Gray //FT - light and of	Fibrous 0.0% dark grey mix - Non- Fibrous 0.0% dark grey mix -	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous	Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0039A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Client Sample ID:	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur Analyzed Date	Black //FT - light and of Color Gray //FT - light and of Color	dark grey mix - Non- Fibrous 0.0% dark grey mix - Non- Fibrous	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous	Asbestos Asbestos Asbestos	Lab Sample ID: Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Client Sample ID:	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020	Color Color Color Gray /VFT - light and of the color Black	dark grey mix - Non- Fibrous 0.0% dark grey mix - Non- Fibrous 0.0%	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0%	Asbestos Asbestos Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0039A
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Date 6/11/2020 12.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.2-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 12.3-Vinyl Floor Tile	Color Color Color Gray /VFT - light and of the color Black	dark grey mix - Non- Fibrous 0.0% dark grey mix - Non- Fibrous 0.0% dark grey mix -	Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0% Room 142 -Asbestos Non-Fibrous 100.0%	Asbestos Asbestos Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0039A

0.0%

100.0%

None Detected

6/11/2020

Gray



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Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

			EPA6UU/R-	93/116 Meth	loa		
Client Sample ID:	12.3-Mastic					Lab Sample ID:	672000862-0040A
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - light and	dark grey mix - F	Room 142			
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	13.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0041
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - grey mix -	- Room 157				
	Austral		Ma	A - b 4			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected	Comment	
						Lab Cample ID:	672000862-0041A
Client Sample ID:	13.1-Mastic		D 457			Lab Sample ID:	072000002-0041A
Sample Description:	129, 139, 141 Louis Pasteur	/vF1 - grey mix -	- Room 157				
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	13.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0042
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - grey mix -	- Room 157				
	Analyzed			Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	13.2-Mastic					Lab Sample ID:	672000862-0042A
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - grey mix -	- Room 157				
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	13.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0043
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - grey mix -	- Room 157				
	Analyzed			Asbestos		•	
TEST PLM	6/11/2020	Crov	0.0%	Non-Fibrous 100.0%	Asbestos None Detected	Comment	
		Gray	0.0%	100.070	None Detected	1-6-0	67000000 00404
Client Sample ID:	13.3-Mastic					Lab Sample ID:	672000862-0043A
Sample Description:	129, 139, 141 Louis Pasteur	/VFI - grey mix -	- Room 157				
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Brown	0.0%	100.0%	None Detected		
Client Sample ID:	14.1					Lab Sample ID:	672000862-0044
Sample Description:	129, 139, 141 Louis Pasteur	/Yellow carpet m	astic - Room 27	3			
	A		Al .	A a b a a é			
TEST	Analyzed	Color		Asbestos Non Eibrous	Ashsatas	Comment	
TEST	Date	Color	ribrous	Non-Fibrous	Asbestos	Comment	

6/11/2020

Yellow

5.0%

95.0%

None Detected



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Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Client Sample ID:	14.2				Lab Sample ID:	672000862-0045
Sample Description:	129, 139, 141 Louis Pasteur/	Yellow carpet ma	astic - Room 273			
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Yellow	5.0% 95.0%	None Detected		
Client Sample ID:	14.3				Lab Sample ID:	672000862-0046
Sample Description:		Vallau aarnat ma	notic Boom 272		Lab Gample 15.	07200002-0040
ошпри Везеприон.	129, 139, 141 Louis Pasteur/	reliow carpet ma	astic - Room 273			
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Yellow	5.0% 95.0%	None Detected		
Client Sample ID:	15.1				Lab Sample ID:	672000862-0047
Sample Description:	129, 139, 141 Louis Pasteur1 Room 158	29, 139, 141 Lo	uis Pasteur/ CT - pinholes with	h large fissures -		
	Analyzed		Non-Asbestos			
TEST	Date	Color	Fibrous Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	75.0% 25.0%	None Detected		
Client Sample ID:	15.2				Lab Sample ID:	672000862-0048
Sample Description:	129, 139, 141 Louis Pasteur/	CT - pinholes wit	th large fissures - Room 158			
	Analyzed		Non-Asbestos			
TEST	Date	A . I	Ethan Alle Ethan		A	
		Color	Fibrous Non-Fibrous	Asbestos	Comment	
	6/11/2020	Gray	75.0% 25.0%	Asbestos None Detected	Comment	
PLM					Lab Sample ID:	672000862-0049
PLM Client Sample ID: Sample Description:	6/11/2020	Gray	75.0% 25.0%			672000862-0049
PLM Client Sample ID:	6/11/2020	Gray	75.0% 25.0%			672000862-0049
PLM Client Sample ID:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/	Gray	75.0% 25.0% th large fissures - Room 158			672000862-0049
PLM Client Sample ID: Sample Description: TEST	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed	Gray CT - pinholes wit	75.0% 25.0% th large fissures - Room 158 Non-Asbestos	None Detected	Lab Sample ID:	672000862-0049
PLM Client Sample ID: Sample Description: TEST PLM	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date	Gray CT - pinholes wit Color	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous	None Detected Asbestos	Lab Sample ID:	672000862-0049 672000862-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020	Gray CT - pinholes wit Color Gray	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0%	None Detected Asbestos	Lab Sample ID: Comment	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/	Gray CT - pinholes wit Color Gray	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122	None Detected Asbestos	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed	Gray CT - pinholes wit Color Gray /SF - beige with	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos	Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date	Gray CT - pinholes wit Color Gray /SF - beige with Color	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous Non-Fibrous Non-Fibrous	Asbestos Asbestos Asbestos	Lab Sample ID: Comment	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020	Gray CT - pinholes wit Color Gray /SF - beige with	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos	Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic	Gray CT - pinholes wit Color Gray VSF - beige with Color Beige	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0%	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:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020	Gray CT - pinholes wit Color Gray VSF - beige with Color Beige	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0%	Asbestos Asbestos Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic 129, 139, 141 Louis Pasteur/	Gray CT - pinholes wit Color Gray VSF - beige with Color Beige	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0%	Asbestos Asbestos Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic	Gray CT - pinholes wit Color Gray VSF - beige with Color Beige	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0% squares - Room 122	Asbestos Asbestos Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0050
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic 129, 139, 141 Louis Pasteur/ Analyzed Analyzed	Gray CT - pinholes with Color Gray /SF - beige with Color Beige	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0% squares - Room 122 Non-Asbestos	Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	672000862-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic 129, 139, 141 Louis Pasteur/ Analyzed Date Analyzed Date	Gray CT - pinholes with Color Gray Color Beige VSF - beige with Color	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous Squares - Room 122 Non-Asbestos Fibrous Non-Fibrous	Asbestos None Detected Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	672000862-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Client Sample ID: Client Sample Description:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020	Gray CT - pinholes with Color Gray /SF - beige with Color Beige /SF - beige with	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 0.0% 100.0% 100.0%	Asbestos None Detected Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	672000862-0050 672000862-0050A
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	6/11/2020 15.3 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Vinyl Sheet Flooring 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.1-Mastic 129, 139, 141 Louis Pasteur/ Analyzed Date 6/11/2020 16.2-Vinyl Sheet Flooring	Gray CT - pinholes with Color Gray /SF - beige with Color Beige /SF - beige with	75.0% 25.0% th large fissures - Room 158 Non-Asbestos Fibrous Non-Fibrous 80.0% 20.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 45.0% 55.0% squares - Room 122 Non-Asbestos Fibrous Non-Fibrous 0.0% 100.0% 100.0%	Asbestos None Detected Asbestos None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	672000862-0050 672000862-0050A

6/11/2020

Beige

45.0%

55.0%

None Detected



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16.2-Mastic

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672000862-0051A

Lab Sample ID:

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

Ciletti Sample ID.	10.2-Wastic					Lab Sample ID.	072000002-0031A
Sample Description:	129, 139, 141 Louis Pasteur	/VSF - beige wit	n squares - Roo	om 122			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020				Insufficient Material		
Client Sample ID:	16.3					Lab Sample ID:	672000862-0052
Sample Description:	129, 139, 141 Louis Pasteur	/VSF - beige wit	h squares - Roo	om 122			
		_					
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	45.0%	55.0%	None Detected		
Client Sample ID:	17.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0053
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - white with	grey flakes - F	Room 122			
	A I I						
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%		None Detected		
Client Sample ID:	17.1-Mastic	······				Lab Sample ID:	672000862-0053A
Sample Description:	129, 139, 141 Louis Pasteur	A/ET white with	arov flakos E	200m 122		Lub Gumple ID.	0/200002 0000/1
oumpie Description.	129, 139, 141 Louis Fasieur	VFI - WIIILE WILI	i grey liakes - r	(OOIII 122			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	17.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0054
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - white with	grey flakes - F	Room 122			
	Analyzed			-Asbestos			
TEST	Date 6/11/2020	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	17.2-Mastic					Lab Sample ID:	672000862-0054A
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - white with	grey flakes - F	Room 122			
	Analyzed		Non	-Asbestos			
TEST	Analyzed Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Black	0.0%		None Detected		
Client Sample ID:	17.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0055
Sample Description:	129, 139, 141 Louis Pasteur	N/FT - white with	arev flakes	200m 122		_aa campio ibi	
	120, 100, 141 Louis Fasicul	vvi i = vviiit⊆ Witi	i grey nakes - F	COULT IZZ			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	17.3-Mastic					Lab Sample ID:	672000862-0055A
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - white with	grey flakes - F	Room 122			
	Analyzed			-Asbestos		•	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Black	0.0%	100.0%	None Detected		



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

Client Sample ID:	18.1					Lab Sample ID:	672000862-0056
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - grey, whit	e and brown sr	nudges		-	
T-0.T	Analyzed	0.1		-Asbestos	A . I		
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	18.2-Vinyl Floor Tile					Lab Sample ID:	672000862-0057
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - grey, whit	e and brown sr	nudges			
	Analyzed		Non-	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
LM	6/11/2020	Beige	0.0%	100.0%	None Detected		
lient Sample ID:	18.2-Mastic					Lab Sample ID:	672000862-0057A
ample Description:	129, 139, 141 Louis Pasteur	/VFT - arev. whit	e and brown sr	nudaes		Lab Gampie ID.	0,1000001 0001A
	120, 100, 111 2000 1 00000	,					
	Analyzed			-Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
LM	6/11/2020	Yellow	0.0%	100.0%	None Detected		
lient Sample ID:	18.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0058
ample Description:	129, 139, 141 Louis Pasteur	/VFT - grey, whit	e and brown sr	nudges			
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	18.3-Mastic					Lab Sample ID:	672000862-0058A
ample Description:	129, 139, 141 Louis Pasteur	NFT - arey whit	and brown er	nudaee		•	
	120, 100, 141 2000 1 000001	vvi i gicy, will	c and brown si	naages			
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Black	0.0%	100.0%	None Detected		
lient Sample ID:	19.1					Lab Sample ID:	672000862-0059
ample Description:	129, 139, 141 Louis Pasteur	NFT - tile arout :	- Room 1694			•	
	120, 100, 141 Louis I delcui	. v. i me grout.	Noom 103A				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	19.2					Lab Sample ID:	672000862-0060
Sample Description:	129, 139, 141 Louis Pasteur	NFT - tile arout :	- Room 169∆			•	
,	0, .00, 111 _000 1 001001	iiio grout					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous		Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	19.3	<u> </u>				Lab Sample ID:	672000862-0061
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - tile grout -	- Room 169A				
	A		NI.	Ashantas			
TEST	Analyzed	Color		-Asbestos	Anh.:	Comment	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	

6/11/2020

Gray

0.0%

100.0%

None Detected



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Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Client Sample ID:	20.1					Lab Sample ID:	672000862-0062
Sample Description:	129, 139, 141 Louis Pasteur	Spray fireproofir	ng - Room 117				
TEST	Analyzed	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Beige	40.0%				vermiculite which is a
FLIVI	0/11/2020	Deige	40.076	00.0%	None Detected	problem matrix; TI recommended	
Client Sample ID:	20.2					Lab Sample ID:	672000862-0063
Sample Description:	129, 139, 141 Louis Pasteur	Spray fireproofir	ng - Room 117				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Beige	40.0%	60.0%	None Detected	Sample contains v problem matrix; TI recommended	rermiculite which is a EM with milling
Client Sample ID:	20.3					Lab Sample ID:	672000862-0064
Sample Description:	129, 139, 141 Louis Pasteur	Spray fireproofir	ng - Room 117				
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
	6/11/2020	Beige	40.0%	60.0%	None Detected	Sample contains v	vermiculite which is a EM with milling
PLM	0/11/2020					recommended	
	21.1-Vinyl Floor Tile					•	672000862-0065
PLM Client Sample ID: Sample Description:			white streaks -	Room 262		recommended	
Client Sample ID:	21.1-Vinyl Floor Tile			Room 262		recommended	
Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur		Non		Asbestos	recommended	
Client Sample ID: Sample Description: TEST	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur, Analyzed	√FT - grey with	Non	-Asbestos Non-Fibrous	Asbestos None Detected	recommended Lab Sample ID:	
Client Sample ID: Sample Description: TEST	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur, Analyzed Date	VFT - grey with	Non Fibrous	-Asbestos Non-Fibrous		recommended Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur, Analyzed Date 6/11/2020	VFT - grey with Color Gray	Non Fibrous 0.0%	-Asbestos Non-Fibrous 100.0%		recommended Lab Sample ID: Comment	672000862-0065
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur, Analyzed Date 6/11/2020 21.1-Mastic	VFT - grey with Color Gray	Non Fibrous 0.0% white streaks -	-Asbestos Non-Fibrous 100.0%		recommended Lab Sample ID: Comment	672000862-0065
Client Sample ID: Sample Description: TEST PLM Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur. Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur.	VFT - grey with Color Gray	Non Fibrous 0.0% white streaks -	Asbestos Non-Fibrous 100.0% Room 262		recommended Lab Sample ID: Comment	672000862-0065
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur. Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur. Analyzed	VFT - grey with Color Gray VFT - grey with	Non Fibrous 0.0% white streaks -	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos	None Detected	recommended Lab Sample ID: Comment Lab Sample ID:	672000862-0065
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur. Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur. Analyzed Date	VFT - grey with Color Gray VFT - grey with	Non Fibrous 0.0% white streaks -	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos	None Detected Asbestos	recommended Lab Sample ID: Comment Lab Sample ID:	672000862-0065
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur, Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur, Analyzed Date 6/11/2020	Color Gray VFT - grey with Color	Non Fibrous 0.0% white streaks - Non Fibrous	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous	None Detected Asbestos	recommended Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0065 672000862-0065A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur, Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur, Analyzed Date 6/11/2020 21.2-Vinyl Floor Tile	Color Gray VFT - grey with Color	Non Fibrous 0.0% white streaks - Non Fibrous white streaks -	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous	None Detected Asbestos	recommended Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0065 672000862-0065A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 0 Date	Color Color Color Color Color Color Color Color	Non Fibrous 0.0% white streaks - Non Fibrous white streaks -	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous Room 262	None Detected Asbestos	recommended Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0065 672000862-0065A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Analyzed	VFT - grey with Color Gray VFT - grey with Color	Non Fibrous 0.0% white streaks - Non Fibrous white streaks -	-Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous Room 262 -Asbestos Non-Fibrous	None Detected Asbestos Insufficient Material	recommended Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	672000862-0065 672000862-0065A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 0 Date	Color Color Color Color Color Color Color Color	Non Fibrous 0.0% white streaks - Non Fibrous white streaks - Non Fibrous	-Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous Room 262 -Asbestos Non-Fibrous	Asbestos Asbestos Asbestos	recommended Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	672000862-0065 672000862-0065A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Client Sample ID: Client Sample ID:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur. Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur. Analyzed Date 6/11/2020 21.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur. Analyzed Date 6/11/2020	Color Gray VFT - grey with Color VFT - grey with Color Gray	Non Fibrous Non Fibrous white streaks - Non Fibrous 0.0%	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous Room 262 -Asbestos Non-Fibrous 100.0%	Asbestos Asbestos Asbestos	recommended Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0065 672000862-0065A
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	21.1-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.1-Mastic 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.2-Vinyl Floor Tile 129, 139, 141 Louis Pasteur Analyzed Date 6/11/2020 21.2-Mastic	Color Gray VFT - grey with Color VFT - grey with Color Gray	Non Fibrous 0.0% white streaks - Non Fibrous 0.0% white streaks - white streaks -	Asbestos Non-Fibrous 100.0% Room 262 -Asbestos Non-Fibrous Room 262 -Asbestos Non-Fibrous 100.0%	Asbestos Asbestos Asbestos	recommended Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	672000862-0065 672000862-0065A

Insufficient Material

6/11/2020



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EMSL Canada Order 672000862 Customer ID: 55CTCS25B 0Z2-021101 Customer PO: Ottawa DSS Project ID:

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

				00,110 11101			
Client Sample ID:	21.3-Vinyl Floor Tile					Lab Sample ID:	672000862-0067
Sample Description:	129, 139, 141 Louis Pasteur						
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	21.3-Mastic					Lab Sample ID:	672000862-0067A
Sample Description:	129, 139, 141 Louis Pasteur.	VFT - grey with	white streaks -	Room 262			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020				Insufficient Material		
	00.4					Lab Sampla ID:	672000862-0068
Client Sample ID:	22.1		D 470			Lab Sample ID:	07200002-0000
Sample Description:	129, 139, 141 Louis Pasteur	/Popcorn ceiling	- Room 172				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	White	0.0%	96.0%	4% Chrysotile		
Client Sample ID:	22.2					Lab Sample ID:	672000862-0069
Sample Description:	129, 139, 141 Louis Pasteur.	Popcorn ceiling	- Room 172				
	120, 100, 111 2000 1 000001	n opooni ooming	1100111 172				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020			Positi	ve Stop (Not Analyzed)		
Client Sample ID:	22.3					Lab Sample ID:	672000862-0070
Sample Description:	129, 139, 141 Louis Pasteur.	/Popcorn ceilina	- Room 172				
	,,	p					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Comment		
PLM	6/11/2020			Positi	ve Stop (Not Analyzed)		
Client Sample ID:	23.1-Vinyl Floor Tile					Lab Sample ID:	672000862-0071
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - beige - R	oom 118B				
		· ·					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	23.1-Mastic					Lab Sample ID:	672000862-0071A
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - beige - R	oom 118B				
		-					
	Analyzed Non-Asbestos						
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/11/2020				Insufficient Material		
Client Sample ID:	23.2-Vinyl Floor Tile	Lab Sample ID:	672000862-0072				
Sample Description:	129, 139, 141 Louis Pasteur	/VFT - beige - R	oom 118B				
	Analyzed		Non	-Asbestos		Comment	
TEST	Date	Color					
PLM	6/11/2020	Beige	0.0%	100.0%	None Detected		



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Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Client Sample ID: 23.2-Mastic Lab Sample ID: 672000862-0072A

Sample Description: 129, 139, 141 Louis Pasteur/VFT - beige - Room 118B

Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous **Asbestos** Comment PLM 6/11/2020 100.0% Black 0.0% None Detected Client Sample ID: 23.3-Vinyl Floor Tile Lab Sample ID: 672000862-0073

Sample Description: 129, 139, 141 Louis Pasteur/VFT - beige - Room 118B

Analyzed Non-Asbestos **TEST** Date Color Fibrous Non-Fibrous Asbestos Comment PLM 6/11/2020 0.0% 100.0% None Detected Gray 672000862-0073A Client Sample ID: 23 3-Mastic Lab Sample ID:

Sample Description: 129, 139, 141 Louis Pasteur/VFT - beige - Room 118B

 TEST
 Date
 Color
 Fibrous
 Non-Asbestos
 Asbestos
 Comment

 PLM
 6/11/2020
 Black
 0.0%
 100.0%
 None Detected

Analyst(s):

Ewa Krupinska PLM (29) Simon Parent PLM (67)

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 or the U.S. Government

Samples analyzed by EMSL Canada Inc. Ottawa, ON

Initial report from: 06/11/202014:49:47



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552006021 55CTCS25B 0Z2-021101

CustomerID:

EMSL Canada Or

Stefan Holik **McIntosh Perry Consulting Engineers Ltd** 115 Walgreen Rd RR 3 Carp, ON K0A 1L0

Phone: Fax:

(613) 836-2184

06/05/20 11:21 AM

Received: Collected:

Project: University of Ottawa 0Z2-021101 Ottawa DSS

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

Client SampleDescription	Collected Analyzed	Weight	RDL	Lead Concentration
PB1	6/5/2020	0.0841 g	0.024 % wt	<0.024 % wt
552006021-0001	Site: 129, 139, 141 Louis Pasteur - White - Room 169 Insufficient sample to reach reporting limit.			
PB2	6/5/2020	0.0486 g	0.041 % wt	<0.041 % wt
552006021-0002	Site: 129, 139, 141 Louis Pasteur - Beige - Room 178 Insufficient sample to reach reporting limit.			
PB3	6/5/2020	0.1887 g	0.011 % wt	0.013 % wt
552006021-0003	Site: 129, 139, 141 Louis Pasteur - Grey Floor - Room 100C			
PB4	6/5/2020	0.0511 g	0.039 % wt	0.18 % wt
552006021-0004	Site: 129, 139, 141 Louis Pasteur - Red - Room 179			
PB5	6/5/2020	0.1857 g	0.011 % wt	<0.011 % wt
552006021-0005	Site: 129, 139, 141 Louis Pasteur - Grey - Room 180 Insufficient sample to reach reporting limit.	_		

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 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the results, it will be noted on the reoprt. "<" (less than) result signifies 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 AIHA-LAP, LLC - ELLAP #196142

APPENDIX D

Site Photographs



Photo 1: View of asbestos containing VFT – 12"X12'" Light and Dark Grey in Room 177



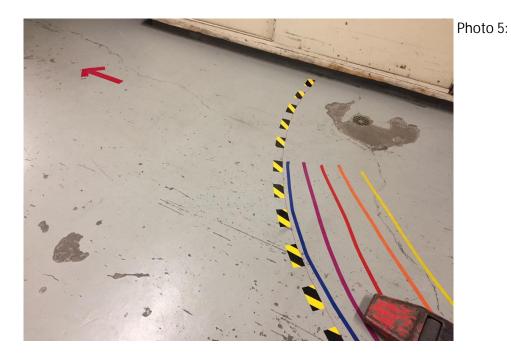
Photo 2: View of asbestos containing VFT – 12"X12'" Beige in Room 176



Photo 3: View of asbestos containing texture coat (popcorn ceiling) in Room 172.



Photo 4: View of red lead containing paint in Room 179



View fair condition grey floor paint with low lead concentration in Room 100C



Photo 6: View of air condition containing ozone depleted substance in Room 201



Photo 7 View of of flourscent bulb suspected to contain PCB



Photo 8 View of vending machine suspected to contain ODS in Room 100C



Photo 9 View of Themostat suspected to contain mercury in Room 120A



View of water damage ceiling tile in Room 100B

APPENDIX E

Asbestos-Containing Materials Checklists

Z2021101HZ / CCC-230252-00

												220277) I HZ / CCC-230232-0
Floor/Level	Room	O)	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
1	Room	117	VFT	12"x12" Light and Dark Grey smudge	Confirmed	Non-	Good Condition	Easy	Low	1050	SF	Manage in Place	
1	Room	176	VFT	12"x12" White w/ Grey Streaks	Confirmed	Non-	Good Condition	Easy	Low	160	SF	Manage in Place	
1	Room	179	VFT	12"X12" Grey with Black Streak	Confirmed	Non-	Good Condition	Easy	Low	180	SF	Manage in Place	
1	Room	179	VFT	12"X12" White w/ Faint Grey lines	Confirmed	Non-	Good Condition	Easy	Low	220	SF	Manage in Place	
1	Room	179	VFT	12"X12" White w/ Grey Streak	Confirmed	Non-	Good Condition	Easy	Low	120	SF	Manage in Place	
1	Room	172	Texture Coat	Popcorn ceiling	Confirmed	Friable	Good Condition	Easy	Low	306	SF	Manage in Place	
1	Roorm	100C	Mechanical Pipe Fitting	Elbow	Confirmed	Friable	Good Condition	Easy	Low	-	-	Manage in Place	
1	Throughout Level		Brick/Stone Mortar	-	Suspected	Friable	Good Condition	Easy	Low	-	-	Manage in Place	
1	Throughout Level		Concrete Block Mortar	-	Suspected	Friable	Good Condition	Easy	Low	-	-	Manage in Place	
1	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place	
2	Throughout Level		Brick/Stone Mortar	-	Suspected	Friable	Good Condition	Easy	Low	-	-	Manage in Place	
2	Throughout Level		Concrete Block Mortar	-	Suspected	Friable	Good Condition	Easy	Low	-	-	Manage in Place	
2	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place	

APPENDIX F

Hazardous Containing Materials Checklists

Floor/Level	Location	QI	DS Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Room	Corridor	Ozone Depleting Substances (ODS)	Water Fountain		Good Condition		1	С	Suspected	Manage in Place	
1	Room	178D	Ozone Depleting Substances (ODS)	Air Conditioning Unit		Good Condition	-	1	С	Suspected	Manage in Place	
1	Room	120	Ozone Depleting Substances (ODS)	Air Conditioning Unit		Good Condition	-	4	С	Suspected	Manage in Place	
1	Room	169	Ozone Depleting Substances (ODS)	Air Conditioning Unit		Good Condition	-	1	С	Suspected	Manage in Place	
1	Room	100D	Lead	Floor Paint	Grey	Fair Condition	-	10	Sqft	Confirmed	Manage in Place	
1	Room	100C	Lead	Floor Paint	Grey					Confirmed	Manage in Place	
1	Room	179	Lead	Wall Paint	Red	Good Condition	-	-	1	Confirmed	Manage in Place	
1	Room	100D	Lead	Door Frame Paint	Brown	Good Condition	-	-	ı	Confirmed	Manage in Place	
1	Room	172	Lead	Wall Paint	Green	Good Condition	-	-	-	Confirmed	Manage in Place	
1	Room	168	Lead	Cabinet	Brown							
1	Throughout levels	-	Silica	Concrete and Mortar	-	Good Condition	-	-	-	Suspected	Manage in Place	
2	Throughout levels	-	Silica	Concrete and Mortar	1	Good Condition	-	-	1	Suspected	Manage in Place	
1	Room	179	Water Damage	Ceiling Tile	N/A	Poor Condition	-	•	,	Confirmed	Should be replaced as part of regular	
1	Room	171	Water Damage	Ceiling Tile	N/A	Poor Condition	-	-	-	Confirmed	Should be replaced as part of regular	
1	Room	179	Water Damage	Ceiling Tile	N/A	Poor Condition	-	-	-	Confirmed	Should be replaced as part of regular	

Floor/Level	Location	QI	DS Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Room	120A	Water Damage	Ceiling Tile	N/A	Poor Condition	-	-	-	Confirmed	Should be replaced as part of regular	
1	Room	148	Water Damage	Ceiling Tile	N/A	Poor Condition	-	ı	ı	Confirmed	Should be replaced as part of regular	
1	Throughout levels	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
1	Throughout levels	-	Mercury	Thermostat Switches	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
1	Throughout levels	-	Mercury	Float Switch	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
1	Throughout levels	-	Polychlorinated Biphenyls (PCBs)	Ligght Ballast	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
2	Throughout levels	-	Polychlorinated Biphenyls (PCBs)	Ligght Ballast	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
2	Room	284	Water Damage	Ceiling Tile	N/A	Poor Condition	-	-	-	Confirmed	Should be replaced as part of regular	
2	Throughout levels	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
2	Throughout levels	-	Mercury	Float Switch	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
2	Throughout levels	-	Mercury	Thermostat Switches	N/A	Good Condition	-	-	-	Suspected	Manage in Place	
All	Throughout Subject Building		Lead	Battery Pack	-	Good Condition	-	-	-	Suspected	Manage in Place	



APPENDIX G

Site Sampling & Location Plans

