HAZARDOUS MATERIALS SURVEY AND 2022 REASSESSMENT 30 MARIE CURIE (GENDRON), OTTAWA, ON



Project No.:0Z2021101HZ / CCC-230252-00

Prepared for:

University of Ottawa

Prepared by:

McIntosh Perry Limited (MPL)

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MCINTOSH PERRY

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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 Gendron located at 30 Marie-Curie Private. The survey was conducted on June 5th, 2020. **The reassessment was completed on July 13th, 2022.**

The purpose of the reassessment was to evaluate the condition and quantity of previously reported asbestoscontaining 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.

Summary of the Reassessment Findings:

- ACM Vinyl Floor Tiles was observed to be in Good Condition in Room 361 and 444.
- No mould or water damaged 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.
- Sample any presumed ACM prior to alteration or maintained work if presumed ACM may be disturbed by the work.

EXECUTIVE SUMMARY

McIntosh Perry Limited **(MPL)** was retained by the University of Ottawa, to complete a hazardous materials survey for Gendron located at 30 Marie-Curie Private. The survey was conducted on June 5th, 2020. **The reassessment was completed on July 13th, 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
Vinyl Floor Tiles	Non-Friable	Specific Areas Only	Chrysotile
Fire Doors	-	Specific Areas Only	Suspected
Concrete Block Mortar	-	Specific Areas Only	Suspected
Ceramic Wall/Floor Tile Grout	-	Specific Areas Only	Suspected
Roofing Materials	-	Roof Level	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:

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

Table B: Summary of Designated Substances & Hazardous Materials Identified

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) Lead Abatement Guidelines.

Prior to any renovations or demolition activities within building, designated substances 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

November 28, 2022

University of Ottawa 141 Louis-Pasteur Private Ottawa, Ontario K1N 1E3 via email: joel.lajeunesse@uottawa.ca

Attention: Joel Lajeunesse, Project Manager

Re: 30 Marie-Curie Private (Gendron), Ottawa, ON Hazardous Materials Survey 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 Gendron located at 30 Marie-Curie Private. The site is situated on the southwest corner of Louis Pasteur Private and Somerset Street East. The survey of the building was conducted on June 5th, 2020. **The reassessment was completed on July 13th, 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. 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 five-storey institutional building built in 2005 and approximately 49,700 square feet. The subject building was observed to be constructed with a concrete and concrete block foundation. The exterior walls are finished with brick and built-up flat roof. Within the subject building, interior walls were observed to be concrete block and drywall, and ceilings were observed to be mainly ceiling tiles and drywall. The floors were generally vinyl floor tile and ceramic tiles.

3.0 FINDINGS & RECOMMENDATIONS

Designated Substances

3.1 Asbestos

Findings

A total of eighty-one (81) 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.

Sample ID	Location	Material	Type and Content	Friability
BS 1.1	Room 540	Sprayed Fireproofing (Grey)	None Detected	N/A
BS 1.2	Room 540	Sprayed Fireproofing (Grey)	None Detected	N/A
BS 1.3	Room 540	Sprayed Fireproofing (Grey)	None Detected	N/A
BS 2.1	Room 540	Plaster (Grey)	None Detected	N/A
BS 2.2	Room 540	Plaster (Grey)	None Detected	N/A
BS 2.3	Room 540	Plaster (Grey)	None Detected	N/A
BS 2.4	Room 164	Plaster (Grey)	None Detected	N/A
BS 2.5	Room 370A	Plaster (Grey)	None Detected	N/A
BS 2.6	Room 054	Plaster (Grey)	None Detected	N/A
BS 2.7	Room 054	Plaster (Grey)	None Detected	N/A
BS 3.1	Room 244	Drywall Joint Compound	None Detected	N/A
BS 3.2	Room 453	Drywall Joint Compound	None Detected	N/A
BS 3.3	Room 382	Drywall Joint Compound	None Detected	N/A
BS 3.4	Room 540	Drywall Joint Compound	None Detected	N/A
BS 3.5	Room 083	Drywall Joint Compound	None Detected	N/A
BS 3.6	Room 461	Drywall Joint Compound	None Detected	N/A

<u> Table 1:</u>

Asbestos Laboratory Results

Hazardous Materials Survey and 2022 Reassessment 30 Marie Curie (GENDRON), Ottawa, ON

BS 3.7Room 155Drywall Joint CompoundNone DetectedN/ABS 4.1Room 164Wall Texture Coat (Base)None DetectedN/ABS 4.2Room 164Wall Texture Coat (Base)None DetectedN/ABS 4.3Room 164Wall Texture Coat (Base)None DetectedN/ABS 4.3Room 164Wall Texture Coat (Base)None DetectedN/ABS 4.3Room 075Wall Texture Coat (Skim)None DetectedN/ABS 5.1Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 5.2Room 075WFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 5.3Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 5.3Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 6.1Room 370AVFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 6.2Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/AMastic (Brown)None DetectedN/AMastic (Brown)None DetectedN/ABS 8.1Room 181VFT (12" x 12"- Beige Mix)None DetectedN/AMastic (Brown) <t< th=""><th>Sample ID</th><th colspan="2">mple ID Location Material</th><th>Type and Content</th><th>Friability</th></t<>	Sample ID	mple ID Location Material		Type and Content	Friability
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BS 5.1Room 075Mastic (Yellow)None DetectedN/ABS 5.2Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 5.3Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 5.3Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 6.1Room 272VFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.2Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.2Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.1Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/AMastic (Brown)None DetectedN/AN/AN/ABS 8.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/A	05 4.5	10011104	Wall Texture Coat (Skim)		N/A
$ \begin{array}{ c c c c } \mbox{Mastic (Yellow)} & None Detected N/A \\ \hline Mastic (Yellow) & None Detected N/A \\ \hline Mastic (Black) & None Detected N/A \\ \hline Mastic (Black) & None Detected N/A \\ \hline Mastic (Brown) & None Detected N/A \\ \hline Mastic (White$	BS 3.7 BS 4.1 BS 4.2 BS 4.3 BS 5.1 BS 5.2 BS 5.3 BS 6.1 BS 6.1 BS 6.2 BS 6.3 BS 7.1 BS 7.2 BS 7.3 BS 7.3 BS 8.1 BS 8.1	Boom 075	VFT (12" x 12"- Grey w/ White & Beige Flakes)	None Detected	N/A
BS 5.2Room 075Mastic (Yellow)None DetectedN/ABS 5.3Room 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/ABS 5.3Room 075VFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.1Room 272Mastic (Yellow)None DetectedN/ABS 6.2Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.2Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.1Room 181Mastic (Brown)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Seige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/ABS 9.2Room 164Mastic (Yellow)None DetectedN/AMastic (White)None DetectedN/AN/AN/AMastic (White)None DetectedN/AN/A	BS 5.1	K00111075	Mastic (Yellow)	Wall Texture Coat (Base)None DetectedN/AWall Texture Coat (Skim)None DetectedN/A2" x 12" - Grey w/ White & Beige Flakes)None DetectedN/A2" x 12" - Grey w/ White & Beige Flakes)None DetectedN/A2" x 12" - Grey w/ White & Beige Flakes)None DetectedN/A2" x 12" - Grey w/ White & Beige Flakes)None DetectedN/AMastic (Yellow)None DetectedN/AMastic (Yellow)None DetectedN/AMastic (Yellow)None DetectedN/AVFT (12" x 12" - Light & Dark Grey)None DetectedN/AMastic (Black)None DetectedN/AMastic (Black)None DetectedN/AMastic (Black)None DetectedN/AMastic (Brown)None DetectedN/A </td <td>N/A</td>	N/A
$ \begin{array}{ c c c c } \mbox{Mastic (Yellow)} & None Detected N/A \\ \hline Non$		Room 155Drywall Joint CompoundNone DetectedRoom 164Wall Texture Coat (Base)None DetectedRoom 164Wall Texture Coat (Skim)None DetectedRoom 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedRoom 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedRoom 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedRoom 075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedRoom 075WFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedRoom 075WFT (12" x 12"- Light & Dark Grey)None DetectedRoom 370AVFT (12" x 12"- Light & Dark Grey)None DetectedRoom 370AVFT (12" x 12"- Light & Dark Grey)None DetectedRoom 0808VFT (12" x 12"- Light & Dark Grey)None DetectedRoom 0808VFT (12" x 12"- Black w/ White Flakes)None DetectedRoom 0808VFT (12" x 12"- Black w/ White Flakes)None DetectedRoom 181WFT (12" x 12"- Black w/ White Flakes)None DetectedRoom 181VFT (12" x 12"- Black w/ White Flakes)None DetectedRoom 181VFT (12" x 12"- Black w/ White Flakes)None DetectedRoom 181VFT (12" x 12"- Black w/ White Flakes)None DetectedRoom 181 <td< td=""><td>N/A</td></td<>	N/A		
BS 5.3Room 075Mastic (Yellow)None DetectedN/ABS 6.1Room 272VFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.2Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.2Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.1Room 181Mastic (Brown)None DetectedN/ABS 8.1Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 9.1Room 164VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/AMastic (Brown)None DetectedN/AMastic (White)None DetectedN/ABS 9.2Room 164WFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/A <tr <td="">Mastic (White)N</tr>	BS 5.2	R00m 075	164Wall Texture Coat (Skim)None DetectedN/An075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/An075Mastic (Yellow)None DetectedN/An075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/An075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/An075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/An075VFT (12" x 12"- Grey w/ White & Beige Flakes)None DetectedN/An075VFT (12" x 12"- Light & Dark Grey)None DetectedN/An075VFT (12" x 12"- Light & Dark Grey)None DetectedN/An076VFT (12" x 12"- Light & Dark Grey)None DetectedN/An1075VFT (12" x 12"- Light & Dark Grey)None DetectedN/An1076VFT (12" x 12"- Black w/ White Flakes)None DetectedN/An1076VFT (12" x 12"- Black w/ White Flakes)None DetectedN/An1076VFT (12" x 12"- Black w/ White Flakes)None DetectedN/A		
Mastic (Yellow)None DetectedN/ABS 6.1Room 272VFT (12" x 12" - Light & Dark Grey)None DetectedN/ABS 6.2Room 370AVFT (12" x 12" - Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12" - Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12" - Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12" - Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12" - Biack w/ White Flakes)None DetectedN/ABS 7.2Room 080BMastic (Brown)None DetectedN/ABS 7.3Room 080BVFT (12" x 12" - Biack w/ White Flakes)None DetectedN/ABS 8.1Room 181VFT (12" x 12" - Biack w/ White Flakes)None DetectedN/ABS 8.1Room 181VFT (12" x 12" - Biack w/ White Flakes)None DetectedN/ABS 8.1Room 181VFT (12" x 12" - Biack w/ White Flakes)None DetectedN/ABS 8.1Room 181VFT (12" x 12" - Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12" - Beige Mix)None DetectedN/ABS 9.1Room 164VFT (12" x 12" - Beige Mix)None DetectedN/ABS 9.2Room 164VFT (12" x 12" - Grey w/ Black & White Spots)None DetectedN/AMastic (White)None DetectedN/AMastic (White)None DetectedN/ABS 9.2Room 164Mastic (White)None Det		Deem 075	VFT (12" x 12"- Grey w/ White & Beige Flakes)	None Detected	N/A
BS 6.1Room 272Mastic (Yellow)None DetectedN/ABS 6.2Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 6.3Room 370AVFT (12" x 12"- Light & Dark Grey)None DetectedN/ABS 7.1Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.2Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 080BVFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 7.3Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.1Room 181VFT (12" x 12"- Black w/ White Flakes)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 9.1Room 164VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige Wikite Spots)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige W/ White & Brown Flakes)None DetectedN/AMastic (White)None DetectedN/AMastic (White)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Grey w/ Black & White & Brown Flakes)None DetectedN/	BS 5.3	.3 Room 075		None Detected	N/A
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		D	VFT (12" x 12"- Light & Dark Grey)	None Detected	N/A
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	BS 6.1	ROOM 272	Mastic (Yellow)	None Detected	N/A
$ \begin{array}{ c c c c } & \mbox{Mastic (Yellow)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{VFT (12" x 12"- Light & Dark Grey)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Black)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Prown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White} & \mbox{Rown Flakes} & \mb$		Room 370A	VFT (12" x 12"- Light & Dark Grey)	None Detected	N/A
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	BS 6.2		Mastic (Yellow)	None Detected	N/A
$ \begin{array}{ c c c c } & \mbox{Mastic (Black)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mone Detected} & \mbox{N/A} \\ \hline \mbox{Mone Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & $	DC C D		VFT (12" x 12"- Light & Dark Grey)	None Detected	N/A
$ \begin{array}{c c c c c c c c } \hline \mbox{Room 0808} & \mbox{Mastic (Brown)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 7.2} & \mbox{Room 0808} & \mbox{VFT (12" x 12"- Black w/ White Flakes)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 7.3} & \mbox{Room 0808} & \mbox{VFT (12" x 12"- Black w/ White Flakes)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 7.3} & \mbox{Room 0808} & \mbox{VFT (12" x 12"- Black w/ White Flakes)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.1} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Black w/ White Flakes)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.2} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Beige Mix)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.3} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Beige Mix)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.3} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Beige Mix)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.3} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Beige Mix)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.3} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Beige Mix)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.3} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Beige Mix)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 8.3} & \mbox{Room 181} & \mbox{VFT (12" x 12"- Grey w/ Black & White Spots)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 9.1} & \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{BS 9.2} & \mbox{Room 164} & \mbox{VFT (12" x 12"- Beige w/ White & Brown Flakes)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & \mbox{None Detected} & \mbox{N/A} \\ \hline \mbox{Mastic (White)} & None Detected$	BS 6.3	ROOM 370A	Mastic (Black)	None Detected	N/A
$ \begin{array}{ c c c c } \hline \mbox{Mastic (Brown)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline \mbox{Mastic (White)} & None Detected & N/A \\ \hline Mastic$	0074	Room 080B	VFT (12" x 12"- Black w/ White Flakes)	None Detected	N/A
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	BS 7.1		Mastic (Brown)	None Detected	N/A
$\frac{1}{100} = \frac{1}{100} $		D 000D	VFT (12" x 12"- Black w/ White Flakes)	None Detected	N/A
BS 7.3Room 080BMastic (Brown)None DetectedN/ABS 8.1Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 9.1Room 164VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/AMastic (White)None DetectedN/AN/ABS 9.2Room 164VFT (12" x 12"- Beige w/ White & Brown Flakes)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige w/ White & Brown Flakes)None DetectedN/A	BS /.2 Room 080B		None Detected	N/A	
Mastic (Brown)None DetectedN/ABS 8.1Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 9.1Room 181VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164VFT (12" x 12"- Grey w/ Black & White Spots)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige w/ White & Brown Flakes)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige w/ White & Brown Flakes)None DetectedN/A		D 000D	VFT (12" x 12"- Black w/ White Flakes)	None Detected	N/A
BS 8.1Room 181Mastic (Brown)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 9.1Room 164VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige w/ White & Brown Flakes)None DetectedN/ABS 9.2Room 164VFT (12" x 12"- Beige w/ White & Brown Flakes)None DetectedN/A	BS 7.3	ROOM USUB	Mastic (Brown)	None Detected	N/A
Mastic (Brown)None DetectedN/ABS 8.2Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 9.1Room 164VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164Mastic (White)None DetectedN/ABS 9.2Room 164VFT (12" x 12"-Beige w/ White & Brown Flakes)None DetectedN/ABS 9.2Room 164VFT (12" x 12"-Beige w/ White & Brown Flakes)None DetectedN/A		De em 101	VFT (12" x 12"- Beige Mix)	None Detected	N/A
BS 8.2Room 181Mastic (Brown)None DetectedN/ABS 8.3Room 181VFT (12" x 12"- Beige Mix)None DetectedN/ABS 8.3Room 181VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.1Room 164VFT (12" x 12"-Grey w/ Black & White Spots)None DetectedN/ABS 9.2Room 164VFT (12" x 12"-Beige w/ White & Brown Flakes)None DetectedN/ABS 9.2Room 164VFT (12" x 12"-Beige w/ White & Brown Flakes)None DetectedN/A	BS 8.1	R00m 181	Mastic (Brown)	None Detected	N/A
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BS 9.2 Room 164 Mastic (White) None Detected N/A	.				-
	BS 9.2	Room 164			-
	BS 9.3	Room 164	VFT (12" x 12"- Beige w/ White & Brown Flakes)		N/A

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Sample ID	Sample ID Location Material		Type and Content	Friability
<u> </u>		Mastic (White)	None Detected	N/A
BS 10.1	Room 453	VSF (Grey Swirls)	None Detected	N/A
BS 10.2	Room 453	VSF (Grey Swirls)	None Detected	N/A
BS 10.3	Room 453	VSF (Grey Swirls)	None Detected	N/A
BS 11.1	Room 377	VFT (12"x12" – Grey Camo)	None Detected	N/A
BS 11.2	Room 377	VFT (12"x12" – Grey Camo)	None Detected	N/A
BS 11.3	Room 180C	VFT (12"x12" – Grey Camo)	None Detected	N/A
D3 11.5	K00111 180C	Mastic (Yellow)	None Detected	N/A
BS 12.1	Room 182	VFT (12"x12" – Grey w/ White & Grey Flakes)	None Detected	N/A
D3 12.1	R00111 162	Mastic (Black)	None Detected	N/A
BS 12.2	Room 253	VFT (12"x12" – Grey w/ White & Grey Flakes)	None Detected	N/A
BS 12.3	Room 443	VFT (12"x12" – Grey w/ White & Grey Flakes)	None Detected	N/A
BS 12.5		Mastic (Black)	None Detected	N/A
BS 13.1	Room 351	VFT (12"x12" – Beige w/ White & Grey Flakes)	None Detected	N/A
BS 13.2	Room 351	VFT (12"x12" – Beige w/ White & Grey Flakes)	None Detected	N/A
D3 13.2	K00111 221	Mastic (Black)	None Detected	N/A
BS 13.3	Room 351	VFT (12"x12" – Beige w/ White & Grey Flakes)	None Detected	N/A
D3 13.3	KUUIII 221	Mastic (Black)	None Detected	N/A
BS 14.1	Room 449	Carpet Mastic (Yellow)	None Detected	N/A
BS 14.2	Room 449	Carpet Mastic (Yellow)	None Detected	N/A
BS 14.3	Room 449	Carpet Mastic (Yellow)	None Detected	N/A
BS 15.1	Room 370A	VFT (12"x12" – Light Grey w/ Grey Flakes)	None Detected	N/A
BS 15.2	Room 370A	VFT (12"x12" – Light Grey w/ Grey Flakes)	None Detected	N/A
BS 15.3	Room 370A	VFT (12"x12" – Light Grey w/ Grey Flakes)	None Detected	N/A
BS 16.1	Room 071	Ceiling Plaster (Skim Coat)	None Detected	N/A
BS 16.2	Room 071	Ceiling Plaster (Skim Coat)	None Detected	N/A
BS 16.3	Room 071	Ceiling Plaster (Skim Coat)	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

Sprayed fireproofing (Grey) was observed and sampled in Room 540. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.

3.1.2 Mechanical Pipe Insulation

3.1.2.1 Mechanical Pipe Straight Insulation

Mechanical pipe straight 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.

3.1.2.2 Mechanical Piping Elbows/Fittings Insulation

Mechanical pipe elbows/fittings 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.

3.1.2.3 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

No HVAC duct 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 were observed in the subject building.

3.1.5 Texture Finishes

Wall texture coat (White) was observed and sampled in Room 164. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.6 Plaster

Several different types of plaster materials were observed and sampled within the subject building as follows:

- Plaster was observed and sampled throughout the subject building. The laboratory analytical results of the samples collected from Rooms 054, 164, 370A, and 540 indicate that this material does not contain asbestos.
- Ceiling plaster (Skim Coat) was observed and sampled in Room 071. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.

• Textured ceiling plaster was previously sampled throughout the basement level. The laboratory analytical results of the samples collected indicated that this material does not contain asbestos.

3.1.7 Drywall Joint Compound

Drywall joint compound was observed and sampled throughout the building. The laboratory analytical results of the samples collected from Rooms 083, 155, 244, 382, 453, 461, 540 indicate that this material does not contain asbestos.

3.1.8 Ceiling Tiles

Suspended ceiling tiles (2'x4' - Pinholes) were observed throughout the subject building. The date stamp indicated that this material was manufactured in 2018, and therefore not suspected of containing asbestos.

3.1.9 Vinyl Floor Tiles

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

- Previously identified asbestos-containing vinyl floor tiles (12"x12" Beige with Grey Streaks) were observed in Room 361 and 444. This material **contains 15.2% Chrysotile asbestos**. This material is considered to be non-friable and was observed in good condition.
- Vinyl floor tiles (12" x 12" Grey w/ White & Beige Flakes) were observed and sampled in Room 075. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Yellow) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Light & Dark Grey) were observed and sampled in Rooms 272 and 370A. The laboratory analytical results of indicate that this material does not contain asbestos. The associated mastic (Yellow & Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Light & Dark Grey) were observed and sampled in Room 080B. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Beige Mix) were observed and sampled in Room 181. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Brown) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Grey w/ Black & White Spots) were observed and sampled in Room 164. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastics (Yellow & White) and levelling compound (Grey) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Grey Camo) were observed and sampled in Room 180C and 377. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Yellow) was also determined not to contain asbestos.

- Vinyl floor tiles (12" x 12" Grey w/ White & Grey Flakes) were observed and sampled in Room 182, 253, and 443. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Beige w/ White & Grey Flakes) were observed and sampled in Room 351. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.
- Vinyl floor tiles (12" x 12" Light Grey w/ Grey Flakes) were observed and sampled in Room 370A. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also determined not to contain asbestos.

3.1.10 Vinyl Sheet Flooring

Vinyl sheet flooring (Grey Swirls) were observed and sampled in Room 453. The laboratory analytical results of the samples collected indicate that this material does not contain asbestos.

3.1.11 Brick/Stone Mortar

No brick/stone mortar was observed in the subject building.

3.1.12 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.

3.1.13 Ceramic Wall / Floor Tile Grout

To avoid damage and compromising the integrity of the structure, no bulk samples of the ceramic wall/floor tile grout were collected. Prior to renovation/demolition, the ceramic wall/floor tile grout should be examined and tested for asbestos content. Ceramic wall/floor tile grout should therefore be considered to contain asbestos until bulk samples and analysis proves otherwise.

3.1.14 Transite (Asbestos Cement)

Cement board (Grey) was previously sampled in the fume hood lining throughout the subject building. The laboratory analytical results indicated that this material does not contain asbestos.

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

3.1.15 Caulking

No caulking materials were observed in the subject building.

3.1.16 Mastic

Carpet mastic (Yellow) was observed and sampled in Room 449. The laboratory analytical results indicate that this material does not contain asbestos.

3.1.17 Cementitious Coating

No cementitious coatings were observed in the subject building.

3.1.18 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.

3.1.19 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

- 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., concrete block mortar, ceramic wall/floor tile grout, roofing materials, and fire doors), 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;

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- 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 four (4) paint sample from the subject building was collected and analyzed for lead content. Results of bulk sampling testing are summarized in Table 2 and the laboratory certificate of analysis can be found in Appendix C.

Lead Sampling Locations and Laboratory Results							
Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)			
Pb 1	Room 541	Floor Paint	Grey	<0.0086			
Pb 2	Room 540	Floor Paint	Grey	<0.0080			
Pb 3	Room 400L	Wall Paint	Red	<0.010			
Pb 4	Room 343	Wall Paint	White	<0.0081			

Table 2:

Lead Sampling Locations and Laboratory Results

All paints tested were below the laboratory limit of detection for lead. However, 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 observed lead-containing acid battery packs in Room 061, 154, 244, 443, 461, and 540.

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

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:

- 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 did not identify any 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 did not identify any pressure gauges or float switches 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:

- providing workers with proper training;
- 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 identified as non-PCBs content. These light ballasts were observed to be manufactured by Sylvania.

3.5.2 Transformers

MPL did not observe any PCBs containing electrical transformers within the subject building. Transformers that could be assessed were observed to be dry-type and manufactured by Siemens.

Recommendations

Since no PCB-containing equipment was observed or suspected to be present during the site survey, no further action is required.

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 R22, R134a and R404 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 equipment suspected of containing radioactive material within the subject building.

Recommendations

Since no equipment containing 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 and underground or above ground storage tanks within the building.

Recommendations

Since no underground or above ground storage tanks were observed or suspected to be present during the site survey, no further action is required.

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 ceiling tiles throughout the subject building which were affected by water damage.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, approximate 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.

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

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. Project Technician Hazardous Materials/ Environmental Health & Safety

John Tufts, B.Sc. Project Manager Hazardous Materials/ Environmental Health & Safety

McINTOSH PERRY

APPENDIX A

Regulatory Requirements

REGULATORY REQUIREMENTS

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
- Lead

- Arsenic
- AsbestosBenzene

- MercurySilica
- Coke Oven Emissions
- Vinyl Chloride

Isocyanates

• Ethylene Oxide

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 AIHA accredited independent laboratory for analysis. Laboratory Certificate of Analysis are attached in Appendix A.

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 30 Marie Curie (Gendron) 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 Inventory, Gendron Hall, Ottawa, Ontario, prepared by Conestoga-Rovers & Associates (dated August 2008, reference # 045870 (121)); and,
- Asbestos Bulk Sampling, Gendron Hall, prepared by CM3 Environmental (dated September 14, 2016, reference # TLW 1151).

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.

ltem	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	Less than 90 square metres	3
	that is applied to surfaces by spraying, by troweling or	90 or more square metres, but less than 450 square metres	5

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

	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 leadcontaining 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</u> <u>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</u>, Renovation, Maintenance or Repair (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.

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

	EMSL Canada	Inc.				SL Canada Orde stomer ID:	er 672000870 55CTCS25B
EMSL	22 Antares Drive Suite 10	02 Ottawa, C	N K2E 7Z6		Cu	stomer PO:	0Z2-021101
	Phone/Fax: (343) 882-60				Pro	ject ID:	Ottawa DSS
SM	http://www.EMSL.com / o	ottawalab@E	MSL.com)
Attn: Stefan H	łolik			Phone:	(613) 83	6-2184	
	h Perry Consulting Enginee	ers Ltd		Fax:		-	
	green Rd RR 3 N K0A 1L0			Collected: Received:			
Carp, C	IN KUATLU			Analyzed:			
Proj: Universi	ty of Ottawa 0Z2-021101 [3	30 Marie Curi	e - Phase III	-			
	Test Report: Asbes	tos Analys	is of Bulk	Materials for O	ntario Regul	ation 278/05	via
			EPA600/R	-93/116 Method			
Client Sample ID:	1.1					Lab Sample ID:	672000870-0001
Sample Description:	30 Marie Curie - Phase III (G	endron)/Sprayed	d fireproofing - I	Room 540			
	Analyzed	. .		Asbestos			
TEST PLM	Date 6/12/2020	Color	Fibrous 40.0%	Non-Fibrous 60.0%	Asbestos	Comment	vermiculite which is a
PLM	6/12/2020	Beige	40.0%	60.0%	None Detected	problem matrix; T recommended	
Client Sample ID:	1.2					Lab Sample ID:	672000870-0002
Sample Description:	30 Marie Curie - Phase III (G	endron)/Sprayed	d fireproofing -	Room 540			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Beige	40.0%	60.0%	None Detected		vermiculite which is a EM with milling
Client Sample ID:	1.3					Lab Sample ID:	672000870-0003
Sample Description:	30 Marie Curie - Phase III (G	endron)/Sprayed	d fireproofing -	Room 540			
	Analyzed		Non	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	40.0%	60.0%	None Detected	Sample contains problem matrix; T recommended	vermiculite which is a EM with milling
Client Sample ID:	2.1					Lab Sample ID:	672000870-0004
Sample Description:	30 Marie Curie - Phase III (G	endron)/Plaster					
	Analyzed		Non	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	2.0%	98.0%	None Detected		
Client Sample ID:	2.2					Lab Sample ID:	672000870-0005
Sample Description:	30 Marie Curie - Phase III (G	endron)/Plaster					
TEOT	Analyzed	0-1		Asbestos	Ashaat	Comment	
TEST PLM	0/12/2020	Color Gray	Fibrous 1.0%	Non-Fibrous 99.0%	Asbestos None Detected	Comment	
	2.3		1.070			Lab Sample ID:	672000870-0006
<i>Client Sample ID:</i> Sample Description:		endron)/Plaster					512000010-0000
	Analyzed		Non	Asbestos			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	



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		EPA600/F	R-93/116 Metho	od		
Client Sample ID:	2.4-Top Coat				Lab Sample ID:	672000870-0007
Sample Description:	30 Marie Curie - Phase III (Gendi	ron)/Plaster				
	.					
TEST	Analyzed Date		n-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray 0.0%		None Detected	Comment	
					Lab Sampla ID;	672000970 00074
Client Sample ID:	2.4-Base Coat				Lab Sample ID:	672000870-0007A
Sample Description:	30 Marie Curie - Phase III (Gendi	on)/Plaster				
	Analyzed	No	1-Asbestos			
TEST	Date	Color Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray 0.0%	6 100.0%	None Detected		
Client Sample ID:	2.5-Skim Coat				Lab Sample ID:	672000870-0008
Sample Description:	30 Marie Curie - Phase III (Gendi	on)/Plaster				
	·					
	Analyzed		1-Asbestos			
TEST	Date	Color Fibrous		Asbestos	Comment	
PLM	6/12/2020	White 0.0%	6 100.0%	None Detected		
Client Sample ID:	2.5-Base Coat				Lab Sample ID:	672000870-0008A
Sample Description:	30 Marie Curie - Phase III (Gendi	on)/Plaster				
TEST	Analyzed Date		n-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray 0.0%		None Detected	Comment	
		0.07				
Client Sample ID:	2.6				Lab Sample ID:	672000870-0009
Sample Description:	30 Marie Curie - Phase III (Gendi	on)/Plaster				
	Analyzed	No	1-Asbestos			
TEST	Date	Color Fibrous		Asbestos	Comment	
PLM	6/15/2020	Gray 0.0%	6 100.0%	None Detected		
Client Sample ID:	2.7				Lab Sample ID:	672000870-0010
Sample Description:	30 Marie Curie - Phase III (Gendi	on)/Plaster			•	
	Analyzed	No	1-Asbestos			
TEST	Date	Color Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/15/2020	Gray 0.0%	6 100.0%	None Detected		
Client Sample ID:	3.1				Lab Sample ID:	672000870-0011
Sample Description:	30 Marie Curie - Phase III (Gendi	ron)/DJC				
	Analyzed		1-Asbestos			
TEST	Date		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White 0.0%	6 100.0%	None Detected		
Client Sample ID:	3.2				Lab Sample ID:	672000870-0012
Sample Description:	30 Marie Curie - Phase III (Gendi	ron)/DJC				
	.		Ashasta			
TEST	Analyzed		1-Asbestos	Asheataa	Comment	
PLM	Date 6/12/2020	Color Fibrous White 0.09	Non-Fibrous	Asbestos	comment	
LIVI	0/12/2020	•••••• • 0.07		None Detected		



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Client Sample ID:	3.3					Lab Sample ID:	672000870-0013
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	3.4					Lab Sample ID:	672000870-0014
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	3.5					Lab Sample ID:	672000870-0015
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	3.6					Lab Sample ID:	672000870-0016
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	3.7					Lab Sample ID:	672000870-0017
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/DJC					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	4.1-Skim Coat					Lab Sample ID:	672000870-0018
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/Wall tex	ture coat - Roc	om 164			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Semple ID:	4.1-Base Coat					Lab Sample ID:	672000870-0018A
Client Sample ID: Sample Description:	30 Marie Curie - Phase III (G	Gendron)/Wall tex	ture coat - Roc	om 164		Lab Sample ID.	07200070-00104
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	4.2-Skim Coat					Lab Sample ID:	672000870-0019
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/Wall tex	ture coat - Roc	om 164			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%		None Detected		



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			EPA600/R	-93/116 Metho	ba		
Client Sample ID:	4.2-Base Coat					Lab Sample ID:	672000870-0019A
Sample Description:	30 Marie Curie - Phase III (G						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	4.3-Skim Coat					Lab Sample ID:	672000870-0020
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/Wall tex	xture coat - Roc	om 164			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%	100.0%	None Detected		
Client Sample ID:	4.3-Base Coat					Lab Sample ID:	672000870-0020A
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/Wall tex	xture coat - Roc	om 164			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	5.1-Vinyl Floor Tile					Lab Sample ID:	672000870-0021
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/VFT - g	rey with white a	and beige - Room 07	5		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	5.1-Mastic					Lab Sample ID:	672000870-0021A
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/VFT - g	rey with white a	and beige - Room 07	5		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	5.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0022
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey with white a	and beige - Room 07	5		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	5.2-Mastic					Lab Sample ID:	672000870-0022A
Sample Description:	30 Marie Curie - Phase III (G	endron\//FT	Irev with white	and beine - Room 07	5		
					•		
	Analyzed	.		-Asbestos	A . I	0	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	5.3					Lab Sample ID:	672000870-0023
Sample Description:	30 Marie Curie - Phase III (G	Gendron)/VFT - g	rey with white a	and beige - Room 07	5		
	Analyzed		Non	-Asbestos			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	



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			EPA600/R	-93/116 Wetr	100		
Client Sample ID:	6.1-Vinyl Floor Tile					Lab Sample ID:	672000870-0024
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - li	ght and dark gr	ey mix (272, 370A,	370A)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
lient Sample ID:	6.1-Mastic					Lab Sample ID:	672000870-0024A
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - li	ght and dark gr	ey mix (272, 370A,	370A)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
lient Sample ID:	6.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0025
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - li	ght and dark gr	ey mix (272, 370A,	370A)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	6.2-Mastic					Lab Sample ID:	672000870-0025A
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - li	ght and dark gr	ey mix (272, 370A,	370A)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	6.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0026
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - li	ght and dark gr	ey mix (272, 370A,	, 370A)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	6.3-Mastic					Lab Sample ID:	672000870-0026A
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - li	ght and dark gr	ey mix (272, 370A,	370A)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	98.0%	2% Chrysotile		
Client Sample ID:	7.1-Vinyl Floor Tile				<u> </u>	Lab Sample ID:	672000870-0027
Sample Description:	30 Marie Curie - Phase III (0	endron\//FT b	lack with white	specks - Room 08	0B	•	
2000 2000 1000	JU Mane June - Fliase III (C			3pecks - RUUIII UO			
	Analyzed			Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	7.1-Mastic					Lab Sample ID:	672000870-0027A
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - b	lack with white	specks - Room 08	0B		
	Analyzed		Non	-Asbestos			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	



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			EFA000/R	-93/116 Met			
Client Sample ID:	7.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0028
Sample Description:	30 Marie Curie - Phase III (G						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	7.2-Mastic					Lab Sample ID:	672000870-0028A
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	lack with white	specks - Room 08	0B		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Brown	0.0%	100.0%	None Detected		
Client Sample ID:	7.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0029
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	lack with white	specks - Room 08	30B		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	7.3-Mastic					Lab Sample ID:	672000870-0029A
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	lack with white	specks - Room 08	60B		
	Analyzed			-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020				Insufficient Material		
Client Sample ID:	8.1-Vinyl Floor Tile					Lab Sample ID:	672000870-0030
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige mix - Roo	m 181			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	8.1-Mastic					Lab Sample ID:	672000870-0030A
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige mix - Roo	m 181			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Brown	0.0%	100.0%	None Detected		
Client Sample ID:	8.2					Lab Sample ID:	672000870-0031
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - h	eige mix - Roo	m 181		-	
	Analyzed			-Asbestos		_	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	8.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0032
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige mix - Roo	m 181			
	Analyzed		Non	-Asbestos			
	· ···· j = · ··						
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	



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			EPA600/R	-93/116 Meth	oa		
Client Sample ID:	8.3-Mastic					Lab Sample ID:	672000870-0032A
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - b	eige mix - Roo	m 181			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Brown	0.0%	100.0%	None Detected		
lient Sample ID:	9.1-Vinyl Floor Tile						672000870-0033
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VSF - g	rey with black	and white spots - Ro	oom 164		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
lient Sample ID:	9.1-Mastic					Lab Sample ID:	672000870-0033A
ample Description:	30 Marie Curie - Phase III (C	Gendron)/VSF - g	rey with black a	and white spots - Ro	oom 164		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
lient Sample ID:	9.1-Mastic 2					Lab Sample ID:	672000870-0033B
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VSF - g	rey with black a	and white spots - Ro	oom 164	·	
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM	6/12/2020	White	0.0%	100.0%	None Detected		
lient Sample ID:	9.1-Leveler					Lab Sample ID:	672000870-0033C
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VSF - g	rey with black a	and white spots - Ro	oom 164		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
lient Sample ID:	9.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0034
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VSF - g	rey with black a	and white spots - Ro	oom 164		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
lient Sample ID:	9.2-Mastic					Lab Sample ID:	672000870-0034A
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VSF - g	rey with black a	and white spots - Ro	oom 164	, , .	
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM	6/12/2020	White	0.0%	100.0%	None Detected		
lient Sample ID:	9.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0035
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VSF - g	rey with black a	and white spots - Ro	oom 164	-	
	Analyzed		Non-Asbestos				
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	



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				-95/110 Wet	liea		
Client Sample ID:	9.3-Mastic					Lab Sample ID:	672000870-0035A
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VSF - g	rey with black a	and white spots -	Room 164		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	White	0.0%		None Detected		
Client Sample ID:	10.1					Lab Sample ID:	672000870-0036
Sample Description:	30 Marie Curie - Phase III (0	Sendron)/VSE - c	irev swirls - Ro	om 453			
				5111 400			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	45.0%	55.0%	None Detected		
Client Sample ID:	10.2					Lab Sample ID:	672000870-0037
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VSF - g	rey swirls - Ro	om 453			
		-					
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	45.0%	55.0%	None Detected		
Client Sample ID:	10.3					Lab Sample ID:	672000870-0038
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VSF - g	rey swirls - Ro	om 453			
TEST	Analyzed Non-Asbestos Date Color Fibrous Non-Fibrous Asbestos Comment						
PLM	6/12/2020	Gray	45.0%		None Detected	Comment	
		Glay	+5.070		None Detected		
Client Sample ID:	11.1					Lab Sample ID:	672000870-0039
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - g	rey camo - (37	7, 377, 180C)			
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%		None Detected		
Client Sample ID:	11.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0040
Sample Description:	30 Marie Curie - Phase III (0	Sendron)/VET - o	rev camo - (37	7 377 1800)			
		Scholon, VIII g		, 677, 1000)			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	11.2-Mastic					Lab Sample ID:	672000870-0040A
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - g	rey camo - (37	7, 377, 180C)			
	· ·			,			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020				Insufficient Material		
Client Sample ID:	11.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0041
Sample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - g	rey camo - (37	7, 377, 180C)			
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		



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Client Sample ID:	11.3-Mastic					Lab Sample ID:	672000870-0041A
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey camo - (37	7, 377, 180C)			
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	12.1-Vinyl Floor Tile					Lab Sample ID:	672000870-0042
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey with white a	and grey marks (18	32, 253, 443)		
	Analyzed			-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
lient Sample ID:	12.1-Mastic					Lab Sample ID:	672000870-0042A
ample Description:	30 Marie Curie - Phase III (0	Gendron)/VFT - g	rey with white a	and grey marks (18	32, 253, 443)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
lient Sample ID:	12.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0043
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey with white a	and grey marks (18	32, 253, 443)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	12.2-Mastic					Lab Sample ID:	672000870-0043A
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey with white a	and grey marks (18	32, 253, 443)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020				Insufficient Material		
Client Sample ID:	12.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0044
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey with white a	and grey marks (18	32, 253, 443)		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM	6/12/2020	Gray	0.0%	100.0%	None Detected		
lient Sample ID:	12.3-Mastic					Lab Sample ID:	672000870-0044A
Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - g	rey with white a	and grey marks (18	32, 253, 443)	r ·	
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
lient Sample ID:	13.1					Lab Sample ID:	672000870-0045
Client Sample ID: Sample Description:	30 Marie Curie - Phase III (C	Gendron)/VFT - b	eige with white	and grey marks -	Room 351	Lan Jampie ID.	51200010-0043
	·						
TEST	Analyzed	Color		-Asbestos	Achastas	Commont	
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Beige	0.0%	100.0%	None Detected		



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			2PA600/R				
Client Sample ID:	13.2-Vinyl Floor Tile					Lab Sample ID:	672000870-0046
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige with white	and grey marks - R	oom 351		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	13.2-Mastic					Lab Sample ID:	672000870-0046A
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige with white	and grey marks - R	oom 351		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID:	13.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0047
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige with white	and grey marks - R	oom 351		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Beige	0.0%	100.0%	None Detected		
Client Sample ID:	13.3-Mastic					Lab Sample ID:	672000870-0047A
Sample Description:	30 Marie Curie - Phase III (G	endron)/VFT - b	eige with white	and grey marks - R	oom 351		
	Analyzed		Non	-Asbestos			
TEST			Comment				
PLM	6/12/2020	Black	0.0%	100.0%	None Detected		
Client Sample ID: Sample Description:	14.1 30 Marie Curie - Phase III (G	endron)/Yellow r	nastic - Room 4	449		Lab Sample ID:	672000870-0048
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Yellow	0.0%	100.0%	None Detected		
Client Sample ID:	14.2						
Sample Description:						Lab Sample ID:	672000870-0049
	30 Marie Curie - Phase III (G	endron)/Yellow ı	nastic - Room	449		Lab Sample ID:	672000870-0049
	30 Marie Curie - Phase III (G Analyzed	Sendron)/Yellow ı		449 -Asbestos		Lab Sample ID:	672000870-0049
TEST		Gendron)/Yellow r Color	Non		Asbestos	Lab Sample ID: Comment	672000870-0049
	Analyzed	,	Non	-Asbestos Non-Fibrous	Asbestos None Detected	·	672000870-0049
PLM	Analyzed Date	Color	Non Fibrous	-Asbestos Non-Fibrous		·	672000870-0049 672000870-0050
PLM Client Sample ID:	Analyzed Date 6/12/2020	Color Yellow	Non Fibrous 0.0%	Asbestos Non-Fibrous 100.0%		Comment	
PLM Client Sample ID: Sample Description:	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed	Color Yellow Sendron)/Yellow r	Non Fibrous 0.0% nastic - Room 4	-Asbestos Non-Fibrous 100.0% 449 -Asbestos	None Detected	Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed Date	Color Yellow Sendron)/Yellow r	Non Fibrous 0.0% nastic - Room Non Fibrous	Asbestos Non-Fibrous 100.0% 449 Asbestos Non-Fibrous	None Detected	Comment	
PLM Client Sample ID: Sample Description: TEST	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed	Color Yellow Sendron)/Yellow r	Non Fibrous 0.0% nastic - Room 4	Asbestos Non-Fibrous 100.0% 449 Asbestos Non-Fibrous	None Detected	Comment Lab Sample ID:	
PLM Client Sample ID: Sample Description: TEST PLM	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed Date	Color Yellow Sendron)/Yellow r	Non Fibrous 0.0% nastic - Room Non Fibrous	Asbestos Non-Fibrous 100.0% 449 Asbestos Non-Fibrous	None Detected	Comment Lab Sample ID:	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed Date 6/12/2020	Color Yellow Sendron)/Yellow r Color Yellow	Non Fibrous 0.0% mastic - Room Non Fibrous 0.0%	Asbestos Non-Fibrous 100.0% 449 Asbestos Non-Fibrous 100.0%	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment	672000870-0050
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed Date 6/12/2020 15.1-Vinyl Floor Tile	Color Yellow Sendron)/Yellow r Color Yellow	Non- Fibrous 0.0% nastic - Room - Non- Fibrous 0.0%	Asbestos Non-Fibrous 100.0% 449 Asbestos Non-Fibrous 100.0%	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment	672000870-0050
PLM Client Sample ID: Sample Description:	Analyzed Date 6/12/2020 14.3 30 Marie Curie - Phase III (G Analyzed Date 6/12/2020 15.1-Vinyl Floor Tile 30 Marie Curie - Phase III (G	Color Yellow Sendron)/Yellow r Color Yellow	Non- Fibrous 0.0% nastic - Room - Non- Fibrous 0.0% ght grey with gr	Asbestos Non-Fibrous 100.0% 449 Asbestos Non-Fibrous 100.0% ey marks - Room 33	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment	672000870-0050



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Client Sample ID:	15.1-Mastic					Lab Sample ID:	672000870-0051A
Sample Description:	30 Marie Curie - Phase III (Ge	endron)/VFT - lig	ght grey with gr	ey marks - Room	370A		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020				Insufficient Material		
Client Sample ID:	15.1-Mastic 2					Lab Sample ID:	672000870-0051B
Sample Description:	30 Marie Curie - Phase III (Ge	endron)/VFT - li	ght grey with gr	ey marks - Room	370A		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020				Insufficient Material		
Client Sample ID:	15.2					Lab Sample ID:	672000870-0052
Sample Description:	30 Marie Curie - Phase III (Ge	endron)/VFT - lig	ght grey with gr	ey marks - Room	370A		
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	6/12/2020	Gray	0.0%	100.0%	None Detected		
Client Sample ID:	15.3-Vinyl Floor Tile					Lab Sample ID:	672000870-0053
Sample Description:	30 Marie Curie - Phase III (Ge	endron)/VFT - li	ght grey with gr	ey marks - Room	370A		
	Analyzed		Non	-Asbestos			
TEST			Comment				
PLM	6/12/2020	Gray	0.0%	100 00/			
		City	0.070	100.0%	None Detected		
•	15.3-Mastic 30 Marie Curie - Phase III (Go					Lab Sample ID:	672000870-0053A
•			ght grey with gr			Lab Sample ID:	672000870-0053A
•	30 Marie Curie - Phase III (Ge		ght grey with gr Non	ey marks - Room		Lab Sample ID:	672000870-0053A
Sample Description: TEST	30 Marie Curie - Phase III (Go Analyzed	endron)/VFT - lig	ght grey with gr Non	ey marks - Room -Asbestos	370A	·	672000870-0053A
TEST	30 Marie Curie - Phase III (Go Analyzed Date	endron)/VFT - lig	ght grey with gr Non	ey marks - Room -Asbestos	370A Asbestos	·	672000870-0053A 672000870-0054
Sample Description: TEST PLM Client Sample ID:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020	endron)/VFT - lig Color	ght grey with gr Non	ey marks - Room -Asbestos	370A Asbestos	Comment	
Sample Description: TEST PLM Client Sample ID:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8	endron)/VFT - lig Color	ght grey with gr Non Fibrous	ey marks - Room -Asbestos	370A Asbestos	Comment	
TEST Client Sample ID:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge	endron)/VFT - lig Color	ght grey with gr Non Fibrous Non	ey marks - Room -Asbestos Non-Fibrous	370A Asbestos Insufficient Material Asbestos	Comment	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed	endron)/VFT - lig Color endron)/DJC	ght grey with gr Non Fibrous Non	ey marks - Room -Asbestos Non-Fibrous -Asbestos Non-Fibrous	370A Asbestos Insufficient Material	Comment Lab Sample ID:	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed Date	endron)/VFT - lig Color endron)/DJC Color	ght grey with gr Non Fibrous Non Fibrous	ey marks - Room -Asbestos Non-Fibrous -Asbestos Non-Fibrous	370A Asbestos Insufficient Material Asbestos	Comment Lab Sample ID:	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020	endron)/VFT - lig Color endron)/DJC Color White	ght grey with gr Non Fibrous Non Fibrous 0.0%	ey marks - Room -Asbestos Non-Fibrous -Asbestos Non-Fibrous 100.0%	370A Asbestos Insufficient Material Asbestos	Comment Lab Sample ID: Comment	672000870-0054
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed Date 16.1 30 Marie Curie - Phase III (Ge Analyzed	endron)/VFT - lig Color endron)/DJC Color White endron)/White, o	ght grey with gr Non Fibrous Non Fibrous 0.0% ceiling skim coa	ey marks - Room -Asbestos Non-Fibrous -Asbestos Non-Fibrous 100.0% at - Room 071 -Asbestos	370A Asbestos Insufficient Material Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	672000870-0054
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 16.1 30 Marie Curie - Phase III (Ge Analyzed Date	endron)/VFT - lig Color endron)/DJC Color White endron)/White, o Color	ght grey with gr Non Fibrous 0.0% ceiling skim coa Non Fibrous	ey marks - Room Asbestos Non-Fibrous -Asbestos Non-Fibrous 100.0% at - Room 071 -Asbestos Non-Fibrous	370A Asbestos Insufficient Material Asbestos None Detected Asbestos	Comment Lab Sample ID: Comment	672000870-0054
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Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample Description: TEST PLM Client Sample ID: Client Sample ID:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 16.1 30 Marie Curie - Phase III (Ge Analyzed Date 16.2 30 Marie Curie - Phase III (Ge	endron)/VFT - lig Color endron)/DJC Color White endron)/White, o Color White	ght grey with gr Non Fibrous 0.0% ceiling skim coa Non Fibrous 0.0% ceiling skim coa	ey marks - Room -Asbestos Non-Fibrous -Asbestos Non-Fibrous 100.0% at - Room 071 -Asbestos Non-Fibrous 100.0% at - Room 071	370A Asbestos Insufficient Material Asbestos None Detected Asbestos	Comment Lab Sample ID: Comment Lab Sample ID: Comment	672000870-0054
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 3.8 30 Marie Curie - Phase III (Ge Analyzed Date 6/12/2020 16.1 30 Marie Curie - Phase III (Ge Analyzed Date 6/15/2020 16.2	endron)/VFT - lig Color endron)/DJC Color White endron)/White, o Color White	ght grey with gr Non Fibrous 0.0% ceiling skim coa Non Fibrous 0.0% ceiling skim coa	ey marks - Room -Asbestos Non-Fibrous -Asbestos Non-Fibrous 100.0% at - Room 071 -Asbestos Non-Fibrous 100.0%	370A Asbestos Insufficient Material Asbestos None Detected Asbestos	Comment Lab Sample ID: Comment Lab Sample ID: Comment	672000870-0054



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 Customer ID:	672000870
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:	16.3				Lab Sample ID:	672000870-0057							
Sample Description:	30 Marie Curie - Phase III (0	30 Marie Curie - Phase III (Gendron)/White, ceiling skim coat - Room 071											
	Analyzed		Non-	Asbestos									
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment							
PLM	6/15/2020	White	0.0%	100.0%	None Detected								

Analyst(s):

Ewa Krupinska PLM (47) Simon Parent PLM (34)

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: 06/15/202015:47:09

Test Report:EPAMultiTests-7.32.2.D Printed: 6/15/2020 03:47PM



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

Phone: (613) 836-2184 Fax: Received: 06/08/20 11:21 AM 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		6/9/2020	0.2314 g	0.0086 % wt	<0.0086 % wt
552006087-0001	Site: 30 Ma	arie Curie - Phase 3 - Gendron - grey floor paint - I	Room 541		
PB2		6/9/2020	0.2500 g	0.0080 % wt	<0.0080 % wt
552006087-0002	Site: 30 Ma	arie Curie - Phase 3 - Gendron - grey/green floor p	paint - Room 540		
PB3		6/9/2020	0.1989 g	0.010 % wt	<0.010 % wt
552006087-0003		arie Curie - Phase 3 - Gendron - red sample to reach reporting limit.			
PB4		6/9/2020	0.2467 g	0.0081 % wt	<0.0081 % wt
552006087-0004	Site: 30 Ma	arie Curie - Phase 3 - Gendron - white - 343			

anto

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 reopt. "<" (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

Initial report from 06/15/2020 08:50:34

APPENDIX D

Site Photographs

30 Marie Curie (Gendron), Ottawa, Ontario Hazardous Materials Survey and 2022 Reassessment Appendix D – Site Photographs

0Z2021101HZ / CCC-230252-00



Photo 1:

Representative view of the building finishes observed throughout the subject building.



Representative view of the building finishes observed throughout the subject building.



Photo 3:

View of the asbestoscontaining vinyl floor tiles (12"x12" Beige w/ Grey Streaks) observed in Room 361.



Photo 4:

Representative view of the non-asbestos containing mechanical insulation observed throughout the subject building.



View of the nonasbestos sprayed fireproofing observed throughout the subject building.



Photo 6:

Representative view of the non-asbestos containing mechanical insulation observed throughout the subject building.



Photo 7:

View of the leadcontaining battery packs observed in Room 154.



3: Representative view of the mercurycontaining fluorescent light

> fixtures observed throughout the subject building.



9: Representative view of the equipment containing ODS's observed throughout the subject building.



Photo 10:

 Representative view of the non-PCB drytype transformers observed throughout the subject building.



Photo 11: Representative view of the water damaged ceiling tiles observed in select areas of the subject building.

APPENDIX E

Asbestos-Containing Materials Checklists

30 Marie Curie (Gendron), Ottawa, ON Hazardous Materials Survey and 2022 Reassessment - University of Ottawa Appendix E - Asbestos Containing Materials Checklist

							pa					E	t	
Floor/Level	Room	Q	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
0	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
0	Throughout Level	-	Concrete Block Mortar	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
0	Throughout Level	-	Ceramic Wall/ Floor Tile Grout	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
0	Throughout Level	-	Transite Panel	Cement Board	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
0	Throughout Level	-	Transite Panel	Benchtop	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
1	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
1	Throughout Level	-	Concrete Block Mortar	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
1	Throughout Level	-	Ceramic Wall/ Floor Tile Grout	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
1	Throughout Level	-	Transite Panel	Cement Board	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
1	Throughout Level	-	Transite Panel	Benchtop	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
2	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
2	Throughout Level	-	Concrete Block Mortar	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
2	Throughout Level	-	Ceramic Wall/ Floor Tile Grout	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
2	Throughout Level	-	Transite Panel	Cement Board	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
2	Throughout Level	-	Transite Panel	Benchtop	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
3	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
3	Throughout Level	-	Concrete Block Mortar	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
3	Throughout Level	-	Ceramic Wall/ Floor Tile Grout	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
3	Room	361	12" x 12" Vinyl Floor Tile	Beige with Grey Streaks	Confirmed	Non-Friable	Good Condition	Easy	Low	100	SF	Manage in Place		
3	Throughout Level	-	Transite Panel	Cement Board	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
3	Throughout Level	-	Transite Panel	Benchtop	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		

30 Marie Curie (Gendron), Ottawa, ON Hazardous Materials Survey and 2022 Reassessment - University of Ottawa Appendix E - Asbestos Containing Materials Checklist

Floor/Level	Room	₽	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
4	Room	444	12" x 12" Vinyl Floor Tile	Beige with Grey Streaks	Confirmed	Non-Friable	Good Condition	Easy	Low	120	SF	Manage in Place		
4	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
4	Throughout Level	-	Concrete Block Mortar	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
4	Throughout Level	-	Ceramic Wall/ Floor Tile Grout	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
4	Throughout Level	-	Transite Panel	Cement Board	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
4	Throughout Level	-	Transite Panel	Benchtop	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
5	Throughout Level	-	Fire Doors	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
5	Throughout Level	-	Concrete Block Mortar	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
5	Throughout Level	-	Ceramic Wall/ Floor Tile Grout	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
5	Throughout Level	-	Transite Panel	Cement Board	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
5	Throughout Level	-	Transite Panel	Benchtop	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		
6	Roof Level	-	Roofing Materials	-	Suspected	-	Good Condition	Easy	Low	-	-	Manage in Place		

APPENDIX F

Hazardous Containing Materials Checklists

30 Marie Curie (Gendron), Ottawa, ON Hazardous Materials Survey and 2022 Reassessment - University of Ottawa Appendix F - Hazardous Containing Materials Checklist

Z2021101HZ / CCC-230252-00

Floor/Level	Room	Q	DS Type	Component	Colour	Condition	Manufacturer	Approx. Quantity	Unit	Suspected/ Confirmed	Recommended Action	Estimated Abatement Cost	Comments
0	Throughout Level	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
0	Throughout Level	-	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
0	Room	061	Lead	Battery Pack	N/A	Good Condition	Ready-Lite	1	С	Confirmed	Manage in Place		
0	Room	070	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Inglis	1	С	Confirmed	Manage in Place		R134a
0	Room	081B	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Whirpool	1	С	Confirmed	Manage in Place		Unknown Refrigerant
0	Room	080	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Insignia	1	С	Confirmed	Manage in Place		R600a
1	Throughout Level	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
1	Throughout Level	-	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
1	Room	154	Lead	Battery Pack	N/A	Good Condition	Ready-Lite	1	С	Confirmed	Manage in Place		
1	Room	181A	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	RCA	1	С	Confirmed	Manage in Place		R134a
1	Room	180	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Danby	1	С	Confirmed	Manage in Place		R134a
1	Room	160D	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Silhouette	1	С	Confirmed	Manage in Place		R134a
1	Room	163	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Gold Star	1	С	Confirmed	Manage in Place		Unknown Refrigerant
2	Throughout Level	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
2	Throughout Level	-	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
2	Room	257	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	LG	1	С	Confirmed	Manage in Place		R134a
2	Room	244	Lead	Battery Pack	N/A	Good Condition	Ready-Lite	1	С	Confirmed	Manage in Place		
3	Room	339	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Whirpool, Danby	2	С	Confirmed	Manage in Place		R134a

30 Marie Curie (Gendron), Ottawa, ON Hazardous Materials Survey and 2022 Reassessment - University of Ottawa Appendix F - Hazardous Containing Materials Checklist

Floor/Level	Room	Q	DS Type	Component	Colour	Condition	Manufacturer	Approx. Quantity	Unit	Suspected/ Confirmed	Recommended Action	Estimated Abatement Cost	Comments
3	Room	381	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Woods, Thermo Scientific	4	С	Confirmed	Manage in Place		R134a
3	Room	380	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Inglis, Thermo Scientific	3	С	Confirmed	Manage in Place		R134a
3	Room	362	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Woods, Kenmore	3	С	Confirmed	Manage in Place		Unknown Refrigerant
3	Room	353	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	LG	1	С	Confirmed	Manage in Place		R134a
3	Room	351	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Chef	1	С	Confirmed	Manage in Place		R600a
3	Room	300M	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	1	С	Confirmed	Should be replaced as part of regular maintenance.		
3	Room	380	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	2	С	Confirmed	Should be replaced as part of regular maintenance.		
3	Room	350	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Norlake, VWR, Fisher Scientific	3	С	Confirmed	Manage in Place		R134a
3	Room	378	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	1	С	Confirmed	Should be replaced as part of regular maintenance.		
3	Room	375	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	1	С	Confirmed	Should be replaced as part of regular maintenance.		
3	Room	362	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	1	С	Confirmed	Should be replaced as part of regular maintenance.		
3	Room	300N	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	4	С	Confirmed	Should be replaced as part of regular maintenance.		
3	Throughout Level	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
3	Throughout Level	-	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		

30 Marie Curie (Gendron), Ottawa, ON Hazardous Materials Survey and 2022 Reassessment - University of Ottawa Appendix F - Hazardous Containing Materials Checklist

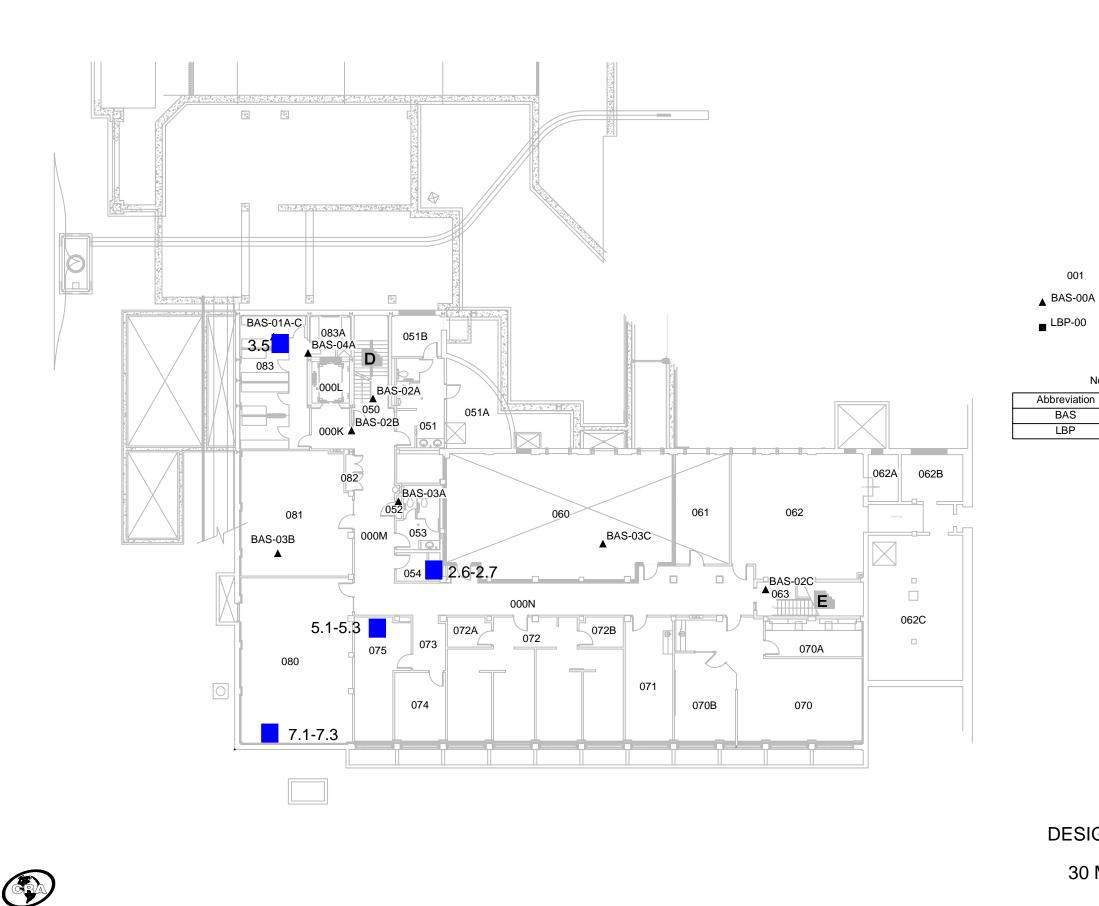
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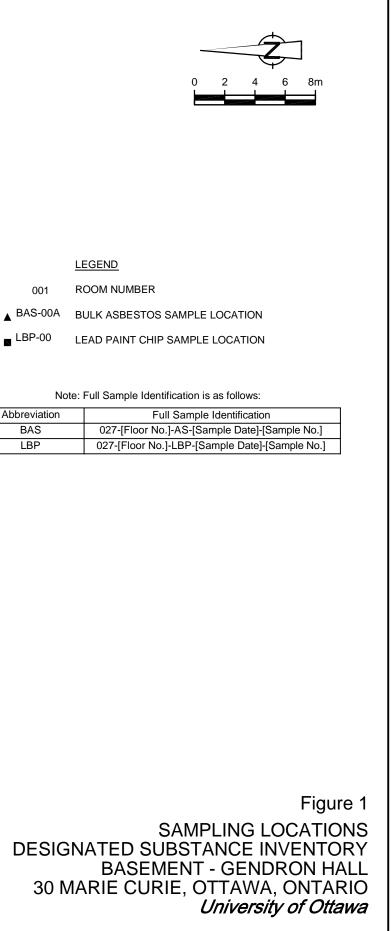
Floor/Level	Room	₽	DS Type	Component	Colour	Condition	Manufacturer	Approx. Quantity	Unit	Suspected/ Confirmed	Recommended Action	Estimated Abatement Cost	Comments
4	Room	451	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	Whirpool	1	С	Confirmed	Manage in Place		R134a
4	Room	400N	Water Damage	Ceiling Tiles	N/A	Poor Condition	-	1	С	Confirmed	Should be replaced as part of regular maintenance.		
5	Room	540	Lead	Battery Pack	N/A	Good Condition	Ready-Lite	1	С	Confirmed	Manage in Place		
5	Throughout Level	-	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
5	Throughout Level	-	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
6	Throughout Level	-	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		

APPENDIX G

Site Sampling & Location Plans

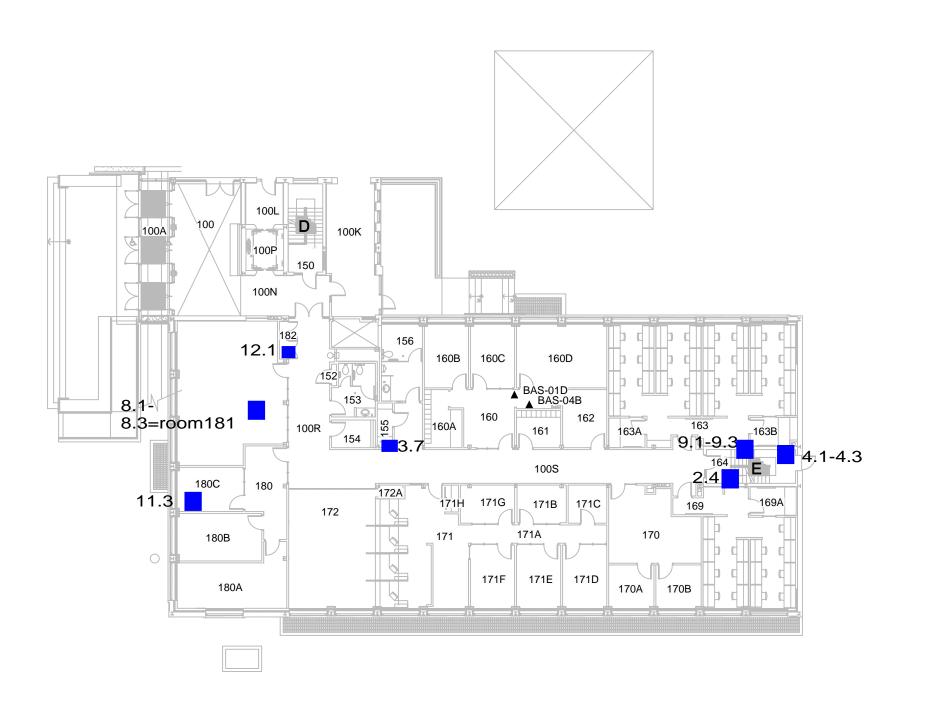




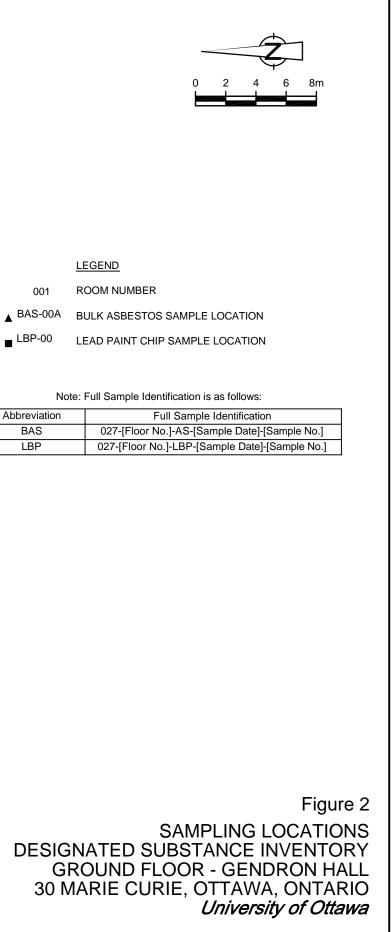


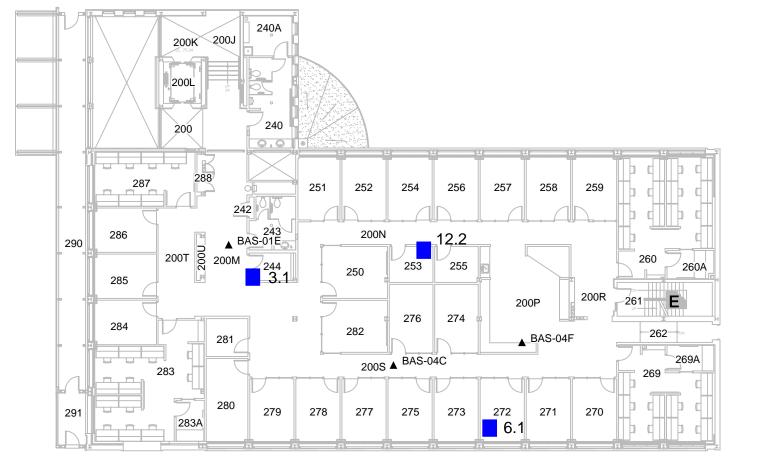
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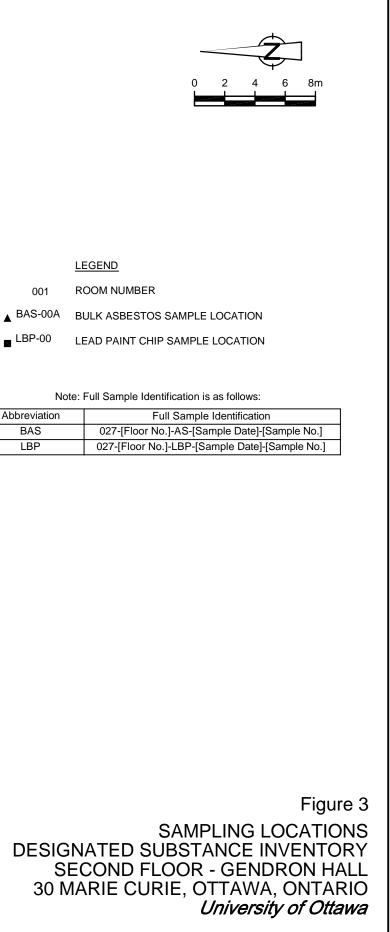
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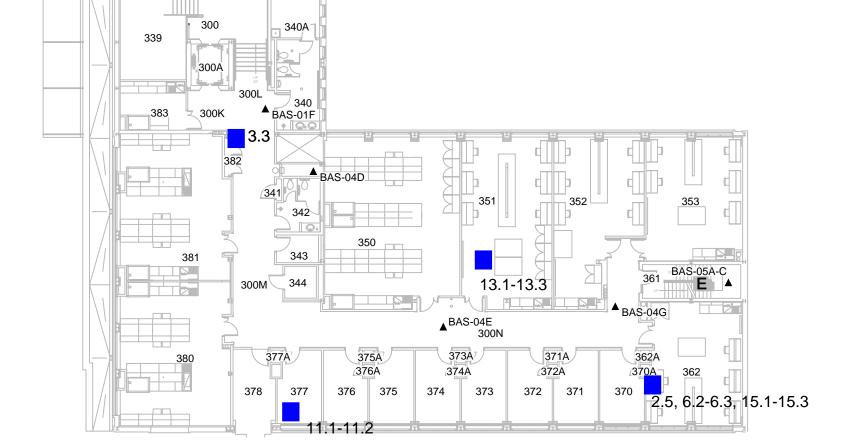






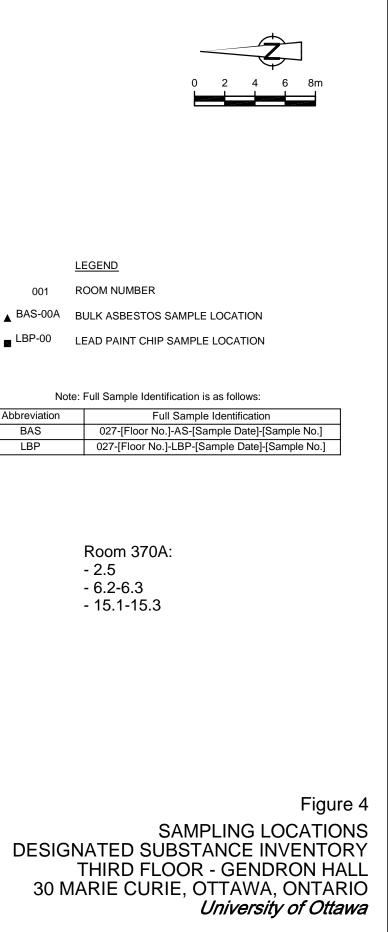
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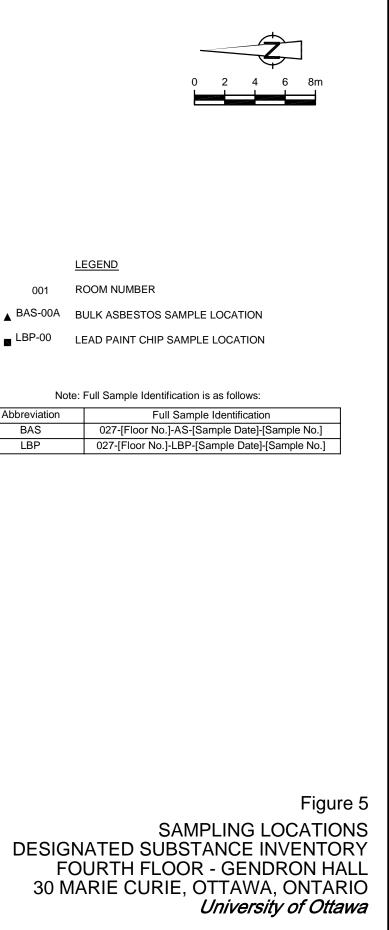
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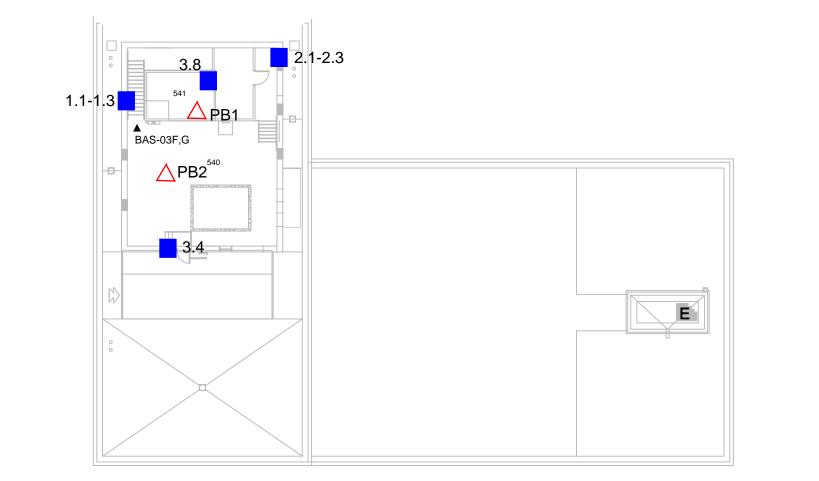
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