HAZARDOUS MATERIALS SURVEY AND 2022 REASSESSMENT UNIVERSITY CENTRE (UCU), OTTAWA, ONTARIO

Project No.: Z1920014HZ / CCC-230252-00

Prepared for:

University of Ottawa

Prepared by:

McIntosh Perry Limited (MPL)

MPL Contact:

John Tufts, Project Manager

Hazardous Materials / Environmental Health & Safety

T: 613-836-2184 E: j.tufts@mcintoshperry.com

Date:

November 24, 2022

McINTOSH PERRY

TABLE OF CONTENTS

REASSESSMENT SURVEY 2022

McIntosh Perry Limited **(MPL)** was retained by the University of Ottawa, to complete to a hazardous materials survey of Marchand Residence located at 85 University Private - Jock Turcot University Centre (UCU). The survey was conducted on August 19th to August 23rd, 2019. **The reassessment was completed on July 11th, 2022.**

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

The assessment and reassessment determined the following findings and recommendations.

Summary of the Reassessment Findings:

- ACM Drywall Joint Compound was observed to be in Good Condition throughout the subject building.
- ACM Vinyl Floor Tiles was observed to be in Good Condition throughout the subject building.
- ACM Suspended Ceiling Tiles were observed to be in Poor Condition in Corridor 325, Room 002, Room 306, Room 306A and Room 306B.
- ACM Parging Cement Mechanical Pipe Insulation was observed to be in Good Condition throughout the subject building.
- ACM Aircell Mechanical Pipe Insulation was observed to be in Good Condition throughout the subject building.
- ACM Wall and Window Caulking was observed to be in Good Condition in Room 100G.
- ACM Wall Mastic was observed to be in Good Condition in Room 014.
- ACM Cementitious Floor Coating was observed to be in Good Condition in Room 210.
- Water damaged materials were observed in select areas during the site survey.
- No mould affected materials were observed during the site survey.

Summary of Recommendations:

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

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 the building located at 85 University Private - Jock Turcot University Centre (UCU) at 85 University Private. The survey was conducted on August 19th to August 23rd, 2019. **The reassessment was completed on July 11th, 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.

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

Table A: Summary of Asbestos-Containing Materials Identified

Material Description	Friable?	Location	Type of Asbestos
Ceiling Tiles	-	Specific Areas Only	Chrysotile
Mechanical Pipe Insulation	Yes	Specific Areas Only	Chrysotile
Vinyl Floor Tiles	No	Specific Areas Only	Chrysotile
Wall and Window Caulking	No	Specific Areas Only	Chrysotile
Drywall Joint Compound	-	Throughout Building	Chrysotile
Wall Mastic	No	Specific Areas Only	Chrysotile
Cementitious Floor Coating	No	Specific Areas Only	Chrysotile
Fire Doors	-	Throughout Building	Suspected
Roofing Materials	-	Building Exterior	Suspected

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 and Hazardous Materials were identified or suspected to be present in the building:

Table B: Summary of Designated Substances & Hazardous Materials Identified

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

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 Ontario (EACO) Mould Abatement Guidelines.

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

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

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

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

McINTOSH PERRY

November 24, 2022

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

via email: joel.lajeunesse@uottawa.ca

Attention: Joel Lajeunesse, Project Manager

Re: 85 University Private - Jock Turcot University Centre (UCU)
Hazardous Materials Survey
McIntosh Perry Limited Reference No. Z1920014HZ / CCC-230252-00

1.0 INTRODUCTION

In accordance with your instructions, McIntosh Perry Limited (MPL) carried out a Hazardous Materials Survey at the University of Ottawa building located at 85 University Private - Jock Turcot University Centre (UCU). The survey of the building was conducted on August 19th to August 23rd, 2019. **The reassessment was completed on July 11th, 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 multi-storey educational facility that was originally constructed in 1973. The subject building was observed to be constructed with a concrete slab floor; metal roof supported by steel trusses, beams and columns. The interior walls were gypsum wallboard and concrete block. Within the subject building, ceilings were observed to be either suspended ceiling tiles, while open ceilings were observed in other areas of the unit. The floors were generally polished concrete in the with the exception of select units containing vinyl floor tiles, vinyl sheet flooring, ceramic tiles and carpet.

3.0 FINDINGS & RECOMMENDATIONS

Designated Substances

3.1 Asbestos

Findings

A total of one-hundred and eighty five (185) bulk samples were collected during the survey and sent to an independent 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.

The following subsections and tables outline our findings of asbestos containing materials throughout the subject building. Laboratory certificates of analysis for asbestos are included in Appendix C.

Table 1:

Asbestos Laboratory Results

Sample ID	Location	Material	Type and Content	Friability
BS 1.1	**Room 100G**	**VFT (12"x 12" Beige with White and Brown Flakes)**	**1% Chrysotile**	**Non-Friable**
		Mastic (Black)	None Detected	N/A
BS 1.2	**Room 100G**	**VFT (12" x 12" Beige with White and Brown Flakes)**	**Stop Positive**	**Non-Friable**
		Mastic (Black)	None Detected	N/A
BS 1.3	**Room 100G**	**VFT (12" x 12" Beige with White and Brown Flakes)**	**Stop Positive**	**Non-Friable**
		Mastic (Black)	None Detected	N/A
BS 2.1	Room 100G, Entrance	Floor Levelling Compound (Off-White)	None Detected	N/A
BS 2.2	Room 100G, Entrance	Floor Levelling Compound (Off-White)	None Detected	N/A
BS 2.3	Room 100G, Entrance	Floor Levelling Compound (Off-White)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 3.1	**Room 100G**	**Window Caulking (Black)**	**8% Chrysotile**	**Non-Friable**
BS 3.2	**Room 100G**	**Window Caulking (Black)**	**Stop Positive**	**Non-Friable**
BS 3.3	**Room 100G**	**Window Caulking (Black)**	**Stop Positive**	**Non-Friable**
BS 4.1	**Room 100G**	**Wall Caulking (Brown)**	**5% Chrysotile**	**Non-Friable**
BS 4.2	**Room 100G**	**Wall Caulking (Brown)**	**Stop Positive**	**Non-Friable**
BS 4.3	**Room 100G**	**Caulking (Brown)**	**Stop Positive**	**Non-Friable**
BS 5.1	**Room 100G**	**Mechanical Pipe Fitting Insulation (Grey)**	**20% Chrysotile**	**Friable**
BS 5.2	**Room 100G**	**Mechanical Pipe Fitting Insulation (Grey)**	**Stop Positive**	**Friable**
BS 5.3	**Room 100G**	**Mechanical Pipe Fitting Insulation (Grey)**	**Stop Positive**	**Friable**
BS 6.1	Room 014, Staircase	Carpet Mastic (Yellow)	None Detected	N/A
BS 6.2	Room 014, Staircase	Carpet Mastic (Yellow)	None Detected	N/A
BS 6.3	Room 014, Staircase	Carpet Mastic (Yellow)	None Detected	N/A
BS 7.1	Room 014	Wallpaper Mastic (Blue/Beige/White)	None Detected	N/A
BS 7.2	Room 014	Wallpaper Mastic (Blue/Beige/White)	None Detected	N/A
BS 7.3	Room 014	Wallpaper Mastic (Blue/Beige/White)	None Detected	N/A
BS 8.1	Room 014, Stage	Floor Mastic (Black)	None Detected	N/A
BS 8.2	Room 014, Stage	Floor Mastic (Black)	None Detected	N/A
BS 8.3	Room 014, Stage	Floor Mastic (Black)	None Detected	N/A
BS 9.1	Room 014	SCT-2'x2'-Deep Texture	None Detected	N/A
BS 9.2	Room 014	SCT-2'x2'-Deep Texture	None Detected	N/A
BS 9.2	Room 014	SCT-2'x2'-Deep Texture	None Detected	N/A
BS 10.1	**Room 014,**	**Wall Mastic (Yellow)**	**0.5% Chrysotile**	**Non-Friable**
BS 10.2	**Room 014,**	**Wall Mastic (Yellow)**	**Stop Positive**	**Non-Friable**
BS 10.3	**Room 014**	**Wall Mastic (Yellow)**	**Stop Positive**	**Non-Friable**
BS 11.1	**Room 014B**	**Mechanical Pipe Fitting Insulation (Grey)**	**60% Chrysotile**	**Friable**
BS 11.2	**Room 014B**	**Mechanical Pipe Fitting Insulation (Grey)**	**Stop Positive – Not Analyzed**	**Friable**
BS 11.3	**Room 014B**	**Mechanical Pipe Fitting Insulation (Grey)**	**Stop Positive – Not Analyzed**	**Friable**
BS 12.1	Room 014C	Concrete Block Mortar (Grey)	None Detected	N/A
BS 12.2	Room 014C	Concrete Block Mortar (Grey)	None Detected	N/A
BS 12.3	Room 014C	Concrete Block Mortar (Grey)	None Detected	N/A
BS 13.1	Room 018B	Ceramic Tile Grout (Grey)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 13.2	Room 018B	Ceramic Tile Grout (Grey)	None Detected	N/A
BS 13.3	Room 018B	Ceramic Tile Grout (Grey)	None Detected	N/A
BS 14.1	Room 018B	Floor Mastic (Beige)	None Detected	N/A
BS 14.2	Room 018B	Floor Mastic (Beige)	None Detected	N/A
BS 14.3	Room 018B	Floor Mastic (Beige)	None Detected	N/A
BS 15.1	**Room 031C**	**VFT (12”x12”-Beige with Grey Flakes)**	**2% Chrysotile**	**Non-Friable**
		Mastic (Black)	None Detected	N/A
BS 15.2	**Room 031C**	**VFT (12”x12”-Beige with Grey Flakes)**	**Stop Positive**	**Non-Friable**
		Mastic (Black)	None Detected	N/A
BS 15.3	**Room 031C**	**VFT (12”x12”-Beige with Grey Flakes)**	**Stop Positive**	**Non-Friable**
		Mastic (Black)	None Detected	N/A
BS 16.1	Room 031C	VSF (Grey)	None Detected	N/A
BS 16.2	Room 031C	VSF (Grey)	None Detected	N/A
BS 16.3	Room 031C	VSF (Grey)	None Detected	N/A
BS 17.1	Room 031, Common Area	Ceiling Texture Coat (Beige)	None Detected	N/A
BS 17.2	Room 031, Common Area	Ceiling Texture Coat (Beige)	None Detected	N/A
BS 17.3	Room 031, Common Area	Ceiling Texture Coat (Beige)	None Detected	N/A
BS 17.4	Room 031, Common Area	Ceiling Texture Coat (Beige)	None Detected	N/A
Bs 17.5	Room 031, Common Area	Ceiling Texture Coat (Beige)	None Detected	N/A
BS 18.1	Room 034A	VSF (Green)	None Detected	N/A
BS 18.2	Room 034A	VSF (Green)	None Detected	N/A
BS 18.3	Room 034A	VSF (Green)	None Detected	N/A
BS 19.1	Room 026	VFT (12”x12”-Light Beige with Flakes)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 19.2	Room 026	VFT (12”x12”-Light Beige with Flakes)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 19.3	Room 026	VFT (12”x12”-Light Beige with Flakes)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 20.1	Room 08C	VFT (12”x12”-Grey with Light Grey Flakes)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 20.2	Room 08C	VFT (12”x12”-Grey with Light Grey Flakes)	None Detected	N/A
BS 20.3	Room 08C	VFT (12”x12”-Grey with Light Grey Flakes)	None Detected	N/A
BS 21.1	Room 08D	VFT (12”x12”-Peach with White Flakes)	None Detected	N/A
BS 21.2	Room 08D	VFT (12”x12”-Peach with White Flakes)	None Detected	N/A
BS 21.3	Room 08D	VFT (12”x12”-Peach with White Flakes)	None Detected	N/A
BS 23.1	Room 08D	VFT (12”x12”-Peach with White Flakes)	None Detected	N/A
BS 23.2	Room 08D	VFT (12”x12”-Peach with White Flakes)	None Detected	N/A
BS 23.3	Room 08D	VFT (12”x12”-Off-White with Grey Flakes)	None Detected	N/A
BS 24.1	Room 0025	VFT (12”x12”-Off-White with Multicolor Flakes)	None Detected	N/A
BS 24.2	Room 0025	VFT (12”x12”-Off-White with Multicolor Flakes)	None Detected	N/A
BS 24.3	Room 0025	VFT (12”x12”-Off-White with Multicolor Flakes)	None Detected	N/A
BS 25.1	Room 0025	VFT (12”x12”-Blue with Multicolor Flakes)	None Detected	N/A
BS 25.2	Room 0025	VFT (12”x12”-Blue with Multicolor Flakes)	None Detected	N/A
BS 25.3	Room 0025	VFT (12”x12”-Blue with Multicolor Flakes)	None Detected	N/A
BS 26.1	Room 0025	Firestop Caulking (Red)	None Detected	N/A
BS 26.2	Room 0025	Firestop Caulking (Red)	None Detected	N/A
BS 26.3	Room 0025	Firestop Caulking (Red)	None Detected	N/A
BS 27.1	Room 0027F	Firestop Caulking (Pink)	None Detected	N/A
BS27.2	Room 0027F	Firestop Caulking (Pink)	None Detected	N/A
BS 27.3	Room 0027F	Firestop Caulking (Pink)	None Detected	N/A
BS 28.1	**Room 0029, Foam Insulated Pipe**	**Mechanical Pipe Fitting Insulation (Grey)**	**30% Chrysotile**	**Friable**
BS 28.2	**Room 0029, Foam Insulated Pipe**	**Mechanical Pipe Fitting Insulation (Grey)**	**Stop Positive**	**Friable**
BS 28.3	**Room 0029, Foam Insulated Pipe**	**Mechanical Pipe Fitting Insulation (Grey)**	**Stop Positive**	**Friable**
BS 29.1	Room 0034	Wall Mastic (Brown)	None Detected	N/A
BS 29.2	Room 0034	Wall Mastic (Brown)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 29.3	Room 0034	Wall Mastic (Brown)	None Detected	N/A
BS 30.1	Room 0049	VFT (12”x12”-Light Blue with Black & White Streaks)	None Detected	N/A
BS 30.2	Room 0049	VFT (12”x12”-Light Blue with Black & White Streaks)	None Detected	N/A
BS 30.3	Room 0049	VFT (12”x12”-Light Blue with Black & White Streaks)	None Detected	N/A
BS 31.1	Room 0059	VFT (12”x12”-Beige with Black & White Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 31.2	Room 0059	VFT (12”x12”-Beige with Black & White Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 31.3	Room 0059	VFT (12”x12”-Beige with Black & White Streaks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 32.1	Room 107	VFT (12”x12”-White with Grey Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 32.2	Room 107	VFT (12”x12”-White with Grey Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 32.3	Room 107	VFT (12”x12”-White with Grey Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 33.1	Room 204	VFT (12”x12”-Offwhite with Black Spots)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 33.2	Room 204	VFT (12”x12”-Offwhite with Black Spots)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 33.3	Room 204	VFT (12”x12”-Offwhite with Black Spots)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 34.1	Room 204	VFT(12”x12”-Grey with White Spots)	None Detected	N/A
BS 34.2	Room 204	VFT(12”x12”-Grey with White Spots)	None Detected	N/A
BS 34.3	Room 204	VFT(12”x12”-Grey with White Spots)	None Detected	N/A
BS 35.1	**Room 210**	**Cementitious Floor Coating (Grey)**	**1% Chrysotile**	**Friable**
BS 35.2	**Room 210**	**Cementitious Floor Coating (Grey)**	**Stop Positive**	**Friable**
BS 35.3	**Room 210**	**Cementitious Floor Coating (Grey)**	**Stop Positive**	**Friable**

Sample ID	Location	Material	Type and Content	Friability
BS 36.1	Room 211	2'x4'-SCT-Pinholes with Large Fissures (Grey)	None Detected	N/A
BS 36.2	Room 211	2'x4'-SCT-Pinholes with Large Fissures (Grey)	None Detected	N/A
BS 36.3	Room 211	2'x4'-SCT-Pinholes with Large Fissures (Grey)	None Detected	N/A
BS 37.1	Room 211	2'x4'-Particle Board (Grey)	None Detected	N/A
BS 37.2	Room 211	2'x4'-Particle Board (Grey)	None Detected	N/A
BS 37.3	Room 211	2'x4'-Particle Board (Grey)	None Detected	N/A
BS 38.1	Room 211	Carpet Mastic (Yellow)	None Detected	N/A
BS 38.2	Room 211	Carpet Mastic (Yellow)	None Detected	N/A
BS 38.3	Room 211	Carpet Mastic (Yellow)	None Detected	N/A
BS 39.1	Room 301	VFT (12"x12"-Multicolor)	None Detected	N/A
BS 39.1		Mastic (Black)	None Detected	N/A
BS 39.2	Room 301	VFT (12"x12"-Multicolor)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 39.3	Room 301	VFT (12"x12"-Multicolor)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 40.1	Room 301	VFT (12"x12"-Red with Black and Pink Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 40.2	Room 301	VFT (12"x12"-Red with Black and Pink Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 40.3	Room 301	VFT (12"x12"-Red with Black and Pink Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 41.1	Room 301	VFT (12"x12"-White with Orange Spots)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 41.2	Room 301	VFT (12"x12"-White with Orange Spots)	None Detected	N/A
		Mastic (Colourless)	None Detected	N/A
BS 41.3	Room 301	VFT (12"x12"-White with Orange Spots)	None Detected	N/A
BS 42.1	Room 301	VFT (12"x12"-Brown)	None Detected	N/A
BS 42.2	Room 301	VFT (12"x12"-Brown)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 42.3	Room 301	VFT (12”x12”-Brown)	None Detected	N/A
BS 43.1	Room 301	VFT (12”x12”-Blue)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 43.2	Room 301	VFT (12”x12”-Blue)	None Detected	N/A
BS 43.3	Room 301	VFT (12”x12”-Blue)	None Detected	N/A
BS 44.1	Room 301	VFT (12”x12”-Olive Green with Grey Flakes)	None Detected	N/A
		Mastic/Levelling Compound (Black/Grey)	None Detected	N/A
BS 44.2	Room 301	VFT (12”x12”-Olive Green with Grey Flakes)	None Detected	N/A
		Mastic/Levelling Compound (Black/Grey)	None Detected	N/A
BS 44.3	Room 301	VFT (12”x12”-Olive Green with Grey Flakes)	None Detected	N/A
		Mastic/Levelling Compound (Black/Grey)	None Detected	N/A
BS 45.1	Room 320A	VFT (12”x12”-Green with Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 45.2	Room 320A	VFT (12”x12”-Green with Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 45.3	Room 320A	VFT (12”x12”-Green with Flakes)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 46.1	Room 324	VFT (12”x12”-Purple)	None Detected	N/A
		Mastic (Colourless)	None Detected	N/A
BS 46.2	Room 324	VFT (12”x12”-Purple)	None Detected	N/A
		Mastic (Colourless)	None Detected	N/A
BS 46.3	Room 324	VFT (12”x12”-Purple)	None Detected	N/A
		Mastic (Colourless)	None Detected	N/A
BS 47.1	Room 339B	VFT (12”x12”-Orange with Multicolor Flakes)	None Detected	N/A
BS 47.2	Room 339B	VFT (12”x12”-Orange with Multicolor Flakes)	None Detected	N/A
BS 47.3	Room 339B	VFT (12”x12”-Orange with Multicolor Flakes)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 47.3	Room 339B	Levelling Compound/Mastic (Grey/Colourless)	None Detected	N/A
BS 48.1	Room 301A	Drywall Joint Compound (White)	None Detected	N/A
BS 48.2	Room 210	Drywall Joint Compound (White)	None Detected	N/A
BS 48.3	Room 105	Drywall Joint Compound (White)	None Detected	N/A
BS 48.4	Room 026	Drywall Joint Compound (Grey)	None Detected	N/A
BS 48.5	Room 014	Drywall Joint Compound (White)	None Detected	N/A
BS 48.6	**Room 014**	**Drywall Joint Compound (Beige)**	**1 % Chrysotile**	**-**
BS 48.7	**Room 100G**	**Drywall Joint Compound**	**Stop Positive**	**-**

N/A – Not Applicable
SCT-Suspended Ceiling Tiles
VFT – Vinyl Floor Tiles
VSF-Vinyl Sheet Flooring
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, approximate quantities (where applicable), and recommended actions.

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

3.1.1 Fireproofing

No fireproofing was observed in the subject building.

3.1.2 Mechanical Pipe Insulation

3.1.2.1 Mechanical Pipe Straight Insulation

Previously identified asbestos-containing Aircell pipe insulation was observed in Room 003, 0018, 0023, 0030, 0033A, 02, 03, 08A, 018, 034A, 034B, 035G, 100D, 202A and 211. The Aircell pipe insulation **contains 40-45% Chrysotile asbestos**. This material is considered to be friable and was observed to be in good condition with the exception of select areas that were observed to be in poor condition.

3.1.2.2 Mechanical Piping Elbows/Fittings Insulation

Mechanical pipe elbows/fittings insulation previously identified and was observed 0013, 0014, 0016, 0031, 0033, 0033D, 0033A, 02, 015, 035G, 100D and 202A. The laboratory analytical results indicate that the parging cement **contains 35-60% Chrysotile asbestos.** This material is considered friable and was observed to be in good condition with the exception of select areas that were observed to be in poor condition.

Mechanical pipe elbows/fittings insulation was observed and sampled from foam insulation pipe in Room 0029, 014B and 100G. The laboratory analytical results from the samples collected indicate that the parging cement

contains 20-60% Chrysotile asbestos. This material is considered friable and was observed to be in good condition.

3.1.2.3 Mechanical Piping Hangers Insulation

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

3.1.2.4 HVAC Duct Insulation

HVAC duct insulation observed within Room 301A and was visually identified to be a material not suspected to contain asbestos (i.e. fibreglass) and thus not sampled.

3.1.2.5 Other Mechanical Insulation

No other mechanical insulation was observed in the subject building.

3.1.3 Flexible Duct Connector

Flexible duct connectors were observed in Room 07D. This material was visually identified as a non-asbestos containing material (i.e. rubber).

3.1.4 Heat Shield or Heat Shield Insulation

No heat shield insulation was observed in the subject building.

3.1.5 Texture Finishes

Ceiling texture coating was observed in 031 and 031C. The laboratory analytical results of ceiling texture coat samples collected indicate that this material does not contain asbestos.

3.1.6 Plaster

No plaster was observed in the subject building.

3.1.7 Drywall Joint Compound

Drywall joint compound was observed and sampled in 014, 026, 100G, 105, 210 and 301A. The laboratory analytical results of drywall joint compound samples collected indicate that this material **contains 1% Chrysotile asbestos**. Since drywall joint compound is a homogeneous material, all areas must be treated as asbestos-containing unless additional bulk sampling and analysis proves otherwise. This material was observed good condition with the exception of select areas that were observed to be in poor condition.

3.1.8 Ceiling Tiles

Suspended ceiling tiles were observed in various locations throughout the subject building.

- Suspended ceiling tiles (2'x4'-White w/ Dots) previously identified to **contain 2% Chrysotile asbestos and <1% Amosite asbestos** were observed in the following locations: 002, 003, 004, 005, 0013, 0014A, 0014B, 0018, 0021, 0030, 038B, 101, 102, 102,102C ,102D,102B, 105, 201, 201 A,201B, 202, 202A,

202B, 204, 211J, 212, 215, 215E, 215G, 2015H, 218, 300, 302, 306, 306A, 306B, 306C, 306D,306F 309, 318C, 320A, 323, 324, 326, 328, 330, 332, 333B, 337, 336, and 339A. **This material was observed to be in poor condition in Room 002, Room 306, Room 306A, Room 306B and the Corridor outside of Room 325 during the 2022 Reassessment Survey..**

- Suspended ceiling tiles (2'x4'-White w/ Dots) were observed in 0024, 0024B, 312G and 319. These ceiling tile had a date stamp 2007 and therefore, this material is not considered to contain asbestos.

- Suspended ceiling tiles (2'x2'-Deep Texture) were observed and sampled in hallway 014. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Suspended ceiling tiles (2'x4'- Pinholes with large fissures) were observed and sampled in 211. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.
- Suspended ceiling tiles (2'x4'- Particle Board) were observed and sampled in 211. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Suspended ceiling tiles (2"x4'-Pinholes &Medium Fissures) were observed in 02. The ceiling tile had a date stamp 2018 and therefore, this material is not considered to contain asbestos.

3.1.9 Vinyl Floor Tiles

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

- Vinyl floor tiles (12"x12"-Beige w/ Brown Spots) previously identified to **contain 14.6% Chrysotile asbestos** were observed in Room 002, 003, 004, 005, 006, 0015, 0015A, 03F, 018B, 034B, 034D, 036, 100D, 128, 201A, 202A, 202B, 203, 211, 211D, 212, 215A, 300, 301A, 301C, 306A,306B, 306C, 306D, 306F, 327, 330 and 332. This material is considered non-friable and was observed to be good condition.

- Vinyl floor tiles (12"x12"-Beige w/ Grey Flakes) was observed and sampled from Room 031C. The laboratory analytical results for the samples collected indicate that this material **contains 2% Chrysotile asbestos.** This material is considered non-friable and was observed to be in good to poor condition. Its associate mastic (Black) does not contain asbestos.

- Vinyl floor tiles (12"x12"-Beige w/ White and Brown Flakes) was observed and sampled from Room 100G. The laboratory analytical results for the samples collected indicate that this material **contains 1% Chrysotile asbestos.** Visually similar vinyl floor tiles were observed in Room 0014A and 0014B. This material is considered non-friable and was observed to be in good condition. Its associated mastic (Black) does not contain asbestos.

- Vinyl floor tiles (12”x12”-Light Beige w/Flakes) was observed and sampled from Room 026. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Yellow) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Grey w/ Light Grey Flakes) was observed and sampled from Room 08C. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Peach w/ White Flakes) was observed and sampled from Room 08D. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Off-White w/ Grey Flakes) was observed and sampled from Room 08D. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Off-White w/ Multicolour Flakes) was observed and sampled from Room 0025. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Blue w/ Multicolour Flakes) was observed and sampled from Room 0025. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Light Blue w/ Black and White Streaks) was observed and sampled from Room 0049. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Beige w/ Black & White Streaks) was observed and sampled from Room 0059. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Yellow) do not contain asbestos.

- Vinyl floor tiles (12”x12”-White w/ Grey Flakes) was observed and sampled from Room 107. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Off-White w/ Black Spots) was observed and sampled from Room 204. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Yellow) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Grey w/ White Spots) was observed and sampled from Room 204. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Multicolor) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Red w/ Black &Pink Flakes) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

- Vinyl floor tiles (12”x12”-White w/ Orange Spots) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Yellow) do not contain asbestos.

- Vinyl floor tiles (12”x12”-White w/ Orange Spots) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Colourless) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Brown) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

- Vinyl floor tiles (12”x12”-Blue) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Olive Green w/ Grey Flakes) was observed and sampled from Room 301. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Black/Grey) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Green w/ Flakes) was observed and sampled from Room 320A. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Black) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Purple) was observed and sampled from Room 324. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Colourless) do not contain asbestos.

- Vinyl floor tiles (12”x12”-Orangew/ Multicolour Flakes) was observed and sampled from Room 339B. The laboratory analytical results for the samples collected indicate that this material and its associated mastic (Grey/Colourless) do not contain asbestos.

3.1.10 Vinyl Sheet Floor

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

- Vinyl sheet flooring (Grey) was observed and sampled in Room 031C. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos.

- Vinyl sheet flooring (Green) was observed and sampled in Room 034A. The laboratory analytical results of the vinyl sheet flooring samples collected indicate that this material does not contain asbestos.

3.1.11 Concrete Block Mortar

Concrete block mortar (Grey) was observed and sampled from Room 014C. The laboratory analytical results from the samples collected indicate that this material does not contain asbestos.

3.1.12 Ceramic Tile Grout

Ceramic wall tile grout was observed and sampled from Room 018B. The laboratory analytical results from the samples collected indicate that this material does not contain asbestos.

3.1.13 Transite (Asbestos Cement)

No transite materials were observed in the subject building.

3.1.14 Caulking

Window caulking (Black) was sampled from Room 100G. The laboratory analytical results indicate that this material **contains 8% Chrysotile asbestos**. This material is considered non-friable and was observed to be in good condition.

Wall caulking (Brown) was sampled from Room 100G. The laboratory analytical results indicate that this material **contains 5% Chrysotile asbestos**. This material is considered non-friable and was observed to be in good condition.

Firestop caulking (Red) was observed and sampled from Room 0025. The laboratory analytical results from the samples collected indicate that this material does not contain asbestos.

Firestop caulking (Pink) was observed and sampled from Room 0027F. The laboratory analytical results from the samples collected indicate that this material does not contain asbestos.

3.1.15 Texture Coating

Ceiling texture coat was observed and sampled from area 031. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

3.1.16 Cementitious Coating

Cementitious floor coating finishes (Grey) were observed and sampled in Room 210. The laboratory analytical results of cementitious coating samples collected indicate that this material **contains 1% Chrysotile asbestos**. This material is considered friable and was observed in good condition with the exception of select areas that were observed to be in poor condition.

3.1.17 Levelling Compound

Floor levelling compound (Off-White) was observed and sampled in Room A100G. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

3.1.18 Mastic

Wall mastic (Yellow) was observed and sampled from Room 014. The laboratory analytical results from samples collected indicate that this material **contains 0.5% Chrysotile asbestos**. This material is considered non-friable and was observed to be in good condition.

Wall paper mastic (Blue/Beige/White) was observed and sampled in Room 014. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

Wall mastic (Brown) was observed and sampled from the top of the staircase in Room 0034. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

Carpet mastic (Yellow) was observed and sampled from the top of the staircase in Room 014. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

Carpet mastic (Yellow) was observed and sampled from the top of the staircase in Room 211. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

Floor mastic (Black) was observed and sampled from the Room 014. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

Floor mastic (Beige) was observed and sampled from the Room 018B. The laboratory analytical results for the samples collected indicate that this material does not contain asbestos.

3.1.19 Fire Doors

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

3.1.20 Roofing Material

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

Recommendations

- Asbestos-containing materials identified to be in poor condition must be repaired/removed immediately, following Type 1/2/3 asbestos abatement work procedures as detailed in O. Reg. 278/05 and disposed of as asbestos waste under O. Reg. 347;

- Asbestos-containing materials that have been identified to be in fair condition should be either repaired (where possible) and/or closely monitored for signs of further deterioration. Depending on type of material and location, these materials should be scheduled for removal if there is potential risk of exposure to worker and/or occupants;

- Materials identified to contain asbestos that are in good condition and do not pose a risk to workers or occupants can be managed in place. Prior to renovation/demolition activities that may disturb the ACMs, these materials must be removed following appropriate Type 1/2/3 asbestos abatement work procedures as detailed in O. Reg. 278/05 and disposed of as asbestos waste under O. Reg. 347;

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

- Entry into ceiling spaces where asbestos-containing ceiling tiles are present will require Type 1/2 asbestos abatement procedures.

- Prior to renovation/demolition of materials which are assumed to be asbestos-containing (suspect materials which were not sampled, i.e., 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;

- 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 thirteen (13) paint samples from the subject building were 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.

Table 2:

Lead Laboratory Results

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
Pb-01	205	Wall	Brown/Bronze	<0.0020
Pb-02	08A	Wall	Light Blue	<0.0020
Pb-03	204	Door Frame	Grey	0.0079
Pb-04	08A	Wall	Dark Blue	<0.0033
Pb-05	0017	Pipe	Off-White	0.229
Pb-06	08D	Wall	Yellow	<0.0080
Pb-07	031C	Wall	Black	<0.0029
Pb-08	0027A	Door	Orange	7.73
Pb-09	014C	Wall	Tan	0.0980
Pb-10	014	Door	Dark Teal Green	<0.0029
Pb-11	014	Pipe	Beige	0.0521
Pb-12	018D	Wall	Teal	<0.0020
Pb-13	014C	Door	Brown	<0.0049
Previously Sampled Lead Paint Finishes				
Sample I.D.	**Location**	**Material**	**Colour**	**Lead Concentration Weight by Conc. (%)**
UCU-3-LBP-032107-01	301	Window Frames and Radiator	Purple	0.12

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
UCU-3-LBP-032107-02	302	Door	Orange	5.40
UCU-3-LBP-032107-06	306D	Window Frames	Brown	0.58
UCU-1-LBP-032107-12	128	Doors	Maroon	0.63

The paint finishes highlighted in blue in the above table were determined to contain low concentrations of lead ranging that are less than 0.1% lead by weight. These paint finishes were observed to be in good condition with the exception of select areas that were observed in poor condition.

The paint finishes highlighted in pink in the above table are considered lead-containing paints or surface coatings with concentrations of lead which are greater than 0.1% lead by weight. These paint finishes were observed to be in good condition with the exception of select areas that were observed in poor condition.

All remaining paints tested were below the laboratory limit of detection for lead. However, all other paints throughout the subject building that are not mentioned in this report must be considered to be lead-containing unless sampling and analysis proves otherwise.

Laboratory certificate of analysis for the paint sample is also included in Appendix A.

3.2.2 Battery Packs

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

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

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

Recommendations

Paints identified to contain lead that are in poor condition must be immediately repaired and/or stabilized following a minimum Type 1/2 lead abatement procedures as per OMOL “Lead on Construction Project” dated April 2011.

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

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

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

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

Please refer to Appendix F – Hazardous Materials Checklist for material conditions, approximate 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;
- providing the workers with respiratory protection;
- wetting the surface of the materials to prevent dust emissions; and,
- 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 observe thermostats containing liquid mercury within the subject building.

3.3.2 Fluorescent Light Tubes

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

3.3.3 Pressure Gauges and Float Switches

MPL identified pressure gauges containing liquid mercury throughout the subject building. MPL also identified suspected float switches that may contain liquid mercury within thesubject building. MPL observed pressure gauges and float switches within Room 0027F and they were observed to be in good condition.

Recommendations

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

Precautions must be taken to prevent mercury liquid/vapours from becoming airborne during building demolition. Exposure to mercury is regulated under Ontario Regulation 490/09, Designated Substances - made under the Occupational Health and Safety Act." Prior to renovations to the building, all mercury containing fluorescent light tubes, thermostats, and equipment must be removed and stored in a safe, secure location and/or properly disposed of in accordance with R.R.O. 1990, Regulation 347 General – Waste Management, made under the Environmental Protection Act.

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, approximate 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/m^3.

This can be achieved by:

- providing workers with proper training;
- providing the workers with respiratory protection;
- wetting the surface of the materials to prevent dust emissions; and,
- 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 QuickTronic.

3.5.2 Transformers

MPL did not observe any PCBs containing electrical transformers within the subject building. However, many of the observed transformers were suspended on steel columns and their PCB-content could not be verified. Transformers that could be assessed were observed to be dry-type and manufactured by Hammond Manufacturing.

Recommendations

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

Prior to any renovations, all light ballasts and HID lamps containing or suspected of containing PCBs that will be affected by the work, must be decommissioned by a licensed contractor such that PCBs are contained and not released to the environment during decommissioning and properly disposed of.

3.6 Ozone Depleting Substances (ODSs) and Other Halocarbon

Findings

A visual assessment for equipment potentially containing ODSs and other halocarbons was conducted. MPL observed equipment such as refrigerators, water fountains, water coolers, freezers, etc. which contain or are suspected of containing ODSs or other halocarbons.

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 R-22 and R-134a does not represent a significant threat to human health or the environment however, a licensed contractor must decommission equipment such that CFCs are contained and not released to the environment during servicing or operation.

3.7 Radioactive Materials

Findings

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

Recommendations

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

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

Findings

A visual survey of the subject building was conducted to determine if any USTs and ASTs were present. MPL observed two (2) Diesel Storage Tanks located with Room 0033.

Recommendations

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

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

3.9 Mould

Findings

3.9.1 Mould

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

3.9.2 Water Damage

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

Recommendations

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

Water stained/damaged ceiling tiles that are also determined to contain asbestos must be replaced following appropriate asbestos abatement procedures as outlined in O. Reg. 278/05.

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

4.0 GENERAL CONSIDERATIONS AND LIMITATIONS

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

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

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

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

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

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

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

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

Yours truly,

MCINTOSH PERRY LIMITED

John Tufts
Project Manager
Hazardous Materials/ Environmental Health & Safety

Mario Morana, A.Sc.T.
Manager
Hazardous Materials/ Environmental Health & Safety

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:

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.

The Occupational Health and Safety Act (OHSA), R.S.O. 1990, c.0.1, 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 The Act requires that the list of Designated Substances be provided to prospective contractors and subcontractors who may do work on a site and come into contact at the site with Designated Substances.

The Ministry of Labour has designated the following substances:

- Acrylonitrile
- Arsenic
- Asbestos
- Benzene
- Coke Oven Emissions
- Ethylene Oxide
- Isocyanates
- Lead
- Mercury
- Silica
- Vinyl Chloride

Ontario Regulation 278/05 (O. Reg. 278/05), the Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations, made under the Occupational Health and Safety Act (OHSA), 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 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,

- Asbestos Sampling-Vinyl Floor Tile Room 0029-University Centre by Conestoga Rovers & Associates (dated August 25, 2006, reference # 7966-M128);
- Designated Substance Survey University of Ottawa by Conestoga Rovers & Associates (dated February 2008, reference#45870(2));
- Asbestos Abatement-3rd Floor University Centre by Conestoga Rovers & Associates (dated June 24, 2009, reference # 056448);

- Asbestos Abatement Second and Third Floor, University of Ottawa by Conestoga Rovers & Associates (dated July 15, 2009, reference # 057051);
- Asbestos Abatement E-mail by Conestoga Rovers & Associates (dated September 11, 2009, reference #057001);
- Asbestos Containing Material and Mould Investigation SFUO FIT-UP by EHS Partnerships LTD (dated July 5, 2013, reference # 04-0033-13-036);
- Asbestos Abatement – Ceiling Tile Removal, University of Ottawa PIVIK Store by EHS Partnerships LTD (dated July 30, 2014, reference # 04-0033-14-036);
- Asbestos Abatement Ombudsman Office by Conestoga Rovers & Associates (dated July 20, 2010, reference #071892);
- Potential Asbestos Materials Assessment University of Ottawa 3rd Floor by EHS Partnerships LTD (dated December 23, 2014, reference #04-0033-14-056);
- Asbestos Abatement Project Summary, University Centre Cafeteria Upgrade by EHS Partnerships LTD (dated January 12, 2015, reference #04-0033-14-057);
- Asbestos Containing Material Review, University Centre 3rd Floor by EHS Partnerships LTD (dated March 10, 2015, reference # 04-0033-15-011);
- Asbestos Abatement Project Summary, University Centre 3rd Floor by EHS Partnerships LTD (dated July 30, 2015, reference # 04-0033-15-011);
- Asbestos Sampling Report, University Centre Bookstore by EHS Partnerships LTD (dated July 31, 2015, reference# 04-0033-15-024); and
- Emergency Vermiculite Sampling – UCU Room 0030A, by EHS Partnerships LTD (dated January 15, 2016, reference # 04-0033-16-002).

Asbestos

Background Information on Asbestos

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

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

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

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

Asbestos Survey Methodology

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

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

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

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

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

Item	Type of material	Size of area of homogeneous material	Minimum number of bulk material samples to be collected
1.	Surfacing material, including without limitation, material that is applied to surfaces by spraying, by troweling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 square metres	3
		90 or more square metres, but less than 450 square metres	5
		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 Paracel Laboratories Ltd., an independent laboratory. Paracel is a fully accredited facility for asbestos analysis and is accredited under National Voluntary Laboratory Accreditation (NVLAP Lab Codes 200812-0 and 200863-0). Paracel is accredited for asbestos bulk analysis in PLM in Ottawa and Mississauga, respectively. For the Scope of Accreditation under the (CALA) Membership Number 1262, Paracel is accredited for asbestos in air samples by PCM.

Vinyl floors tiles were analyzed using the phase light microscopy (PLM) method of analysis. However, given the composition of vinyl floor products, the PLM analysis method may be prone to yielding false negative analytical results. Therefore, prior to removal or replacement, vinyl floor products previously identified to be negative,

should undergo additional analysis by Transmission Electron Microscopy (TEM) to confirm asbestos content, if any.

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

Evaluation of ACMs Based on Condition

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

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

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

Lead

Background Information on Lead

Lead was a common additive in exterior and hard-wearing paint applications. Lead was used to prolong shelf life of paint and to increase its flexibility and durability to wear and weather. Acute exposure to lead by inhalation or ingestion may cause headaches, fatigue, nausea, abdominal cramps and joint pain. Chronic exposures can cause reduced haemoglobin production and reduced lifespan. It has also been known to impact the body's central and peripheral nervous systems and brain function and has been linked to learning disabilities in children.

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

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

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

Exposure to lead-containing materials is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act. Care must be taken to prevent lead-containing particles from becoming airborne during the disturbance of lead-containing surfaces (i.e., during renovation or demolition projects). All lead abatement work must follow procedures outlined in the Guideline Lead on Construction Projects, 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 EACC Lead Guideline for Construction, 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 (□-Quartz) may be a component in ceiling tiles and gypsum board. Silica (including free crystalline silica) may also be a component of concrete and brick surfaces noted in the building.

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

Polychlorinated Biphenyls (PCBs)

Background Information on PCBs

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

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

PCB Regulations (SOR/2008-273)

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

Ozone Depleting Substances (ODSs) and Other Halocarbons

Background Information on ODSs

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

Radioactive Materials

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

Mould & Water Damage

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

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

- Institute of Inspection Cleaning and Restoration Certification (IICRC) S520 Standard and Reference for Professional Mould Remediation,
- The Canadian Construction Association (CCA) Mould Guidelines for the Canadian construction industry (CCA document 82-2004)
- Environmental Abatement Council of Canada (EACC) Mould Abatement Guidelines.

Other Designated Substances

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

Vinyl Chloride

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

Acrylonitrile

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

Arsenic

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

Benzene

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

Coke Oven Emissions

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

Ethylene Oxides

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

Isocyanates

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

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

APPENDIX C

Laboratory Analytical Reports

PARACEL LABORATORIES LTD.
TRUSTED. RESPONSIVE. RELIABLE.

15 - 6800 Kitimat Rd
Mississauga, ON, L5N 5M1
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

McIntosh Perry Limited (Concord)

6240 Hwy 7, Suite 200
Woodbridge, ON L4H 0R2
Attn: Atif Mohamed

Client PO:
Project: UNIVERSITY CENTRE
Custody:

Report Date: 2-Dec-2019
Order Date: 4-Oct-2019

Revised Report **Order #: 1941051**

This Certificate of Analysis contains analytical data applicable to the following samples as submitted :

Paracel ID	Client ID
1941051-01.1	BS 1.1-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES
1941051-01.2	BS 1.1-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES
1941051-02.1	BS 1.2-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES
1941051-02.2	BS 1.2-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES
1941051-03.1	BS 1.3-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES
1941051-03.2	BS 1.3-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES
1941051-04	BS 2.1-100G-ENTRANCE-FLOOR LEVELLING COMPOUND
1941051-05	BS 2.2-100G-ENTRANCE-FLOOR LEVELLING COMPOUND
1941051-06	BS 2.3-100G-ENTRANCE-FLOOR LEVELLING COMPOUND
1941051-07	BS 3.1-100G-WINDOW CAULKING
1941051-08	BS 3.2-100G-WINDOW CAULKING
1941051-09	BS 3.3-100G-WINDOW CAULKING
1941051-10	BS 4.1-100G WALL CAULKING
1941051-11	BS 4.2-100G WALL CAULKING
1941051-12	BS 4.3-100G WALL CAULKING
1941051-13	BS 5.1-100G-PARGING ON SWEATWRAP
1941051-14	BS 5.2-100G-PARGING ON SWEATWRAP
1941051-15	BS 5.3-100G-PARGING ON SWEATWRAP
1941051-16	BS 6.1-"014-TOP OF STAIRCASE-CARPET MASTIC
1941051-17	BS 6.2-"014-TOP OF STAIRCASE-CARPET MASTIC
1941051-18	BS 6.3-"014-TOP OF STAIRCASE-CARPET MASTIC
1941051-19	BS 7.1-014-WALLPAPER MASTIC
1941051-20	BS 7.2-014-WALLPAPER MASTIC
1941051-21	BS 7.3-014-WALLPAPER MASTIC
1941051-22	BS 8.1-014-STAGE-FLOOR MASTIC
1941051-23	BS 8.2-014-STAGE-FLOOR MASTIC

Approved By:

Emma Diaz
Senior Analyst

1941051-24	BS 8.3-014-STAGE-FLOOR MASTIC
1941051-25	BS 9.1-014-2'X2'-SCT-DEEP TEXTURE
1941051-26	BS 9.2-014-2"X2"-SCT-DEEP TEXTURE
1941051-27	BS 9.3-014-2"X2"-SCT-DEEP TEXTURE
1941051-28	BS 10.1-014-WALL MASTIC
1941051-29	BS 10.2-014-WALL MASTIC
1941051-30	BS 10.3-014-WALL MASTIC
1941051-31	BS 11.1-014B-STORAGE RM-PARGING ON ELBOW
1941051-32	BS 11.2-014B-STORAGE RM-PARGING ON ELBOW
1941051-33	BS 11.3-014B-STORAGE RM-PARGING ON ELBOW
1941051-34	BS 12.1-014C-CONCRETE BLOCK MORTAR
1941051-35	BS 12.2-014C-CONCRETE BLOCK MORTAR
1941051-36	BS 12.3-014C-CONCRETE BLOCK MORTAR
1941051-37	BS 13.1-018B-CERAMIC TILE GROUT
1941051-38	BS 13.2-018B-CERAMIC TILE GROUT
1941051-39	BS 13.3-018B-CERAMIC TILE GROUT
1941051-40	BS 14.1-018B-FLOOR MASTIC
1941051-41	BS 14.2-018B-FLOOR MASTIC
1941051-42	BS 14.3-018B-FLOOR MASTIC
1941051-43.1	BS 15.1-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES
1941051-43.2	BS 15.1-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES
1941051-44.1	BS 15.2-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES
1941051-44.2	BS 15.2-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES
1941051-45.1	BS 15.3-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES
1941051-45.2	BS 15.3-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES
1941051-46	BS 16.1-031C-VSF-GRAY
1941051-47	BS 16.2-031C-VSF-GRAY
1941051-48	BS 16.3-031C-VSF-GRAY
1941051-49	BS 17.1-031-COMMON AREA-CEILING TEXTURE COAT
1941051-50	BS 17.2-031-COMMON AREA-CEILING TEXTURE COAT
1941051-51	BS 17.3-031-COMMON AREA-CEILING TEXTURE COAT
1941051-52	BS 17.4-031-COMMON AREA-CEILING TEXTURE COAT
1941051-53	BS 17.5-031-COMMON AREA-CEILING TEXTURE COAT
1941051-54	BS 18.1-034A-VSF-GREEN W/MULTICOLOR DOTS
1941051-55	BS 18.2-034A-VSF-GREEN W/MULTICOLOR DOTS
1941051-56	BS 18.3-034A-VSF-GREEN W/MULTICOLOR DOTS
1941051-57.1	BS 19.1-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES
1941051-57.2	BS 19.1-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES
1941051-58.1	BS 19.2-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES
1941051-58.2	BS 19.2-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES
1941051-59.1	BS 19.3-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES
1941051-59.2	BS 19.3-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES
1941051-60	BS 20.1-08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES
1941051-61	BS 20.2-08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES

1941051-62	BS 20.3-08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES
1941051-63	BS 21.1-08D-VFT-12"X12"-PEACH W/WHITE FLAKES
1941051-64	BS 21.2-08D-VFT-12"X12"-PEACH W/WHITE FLAKES
1941051-65	BS 21.3-08D-VFT-12"X12"-PEACH W/WHITE FLAKES
1941051-66	BS 22.1-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES
1941051-67	BS 22.2-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES
1941051-68	BS 22.3-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES
1941051-69	BS 23.1-0025-VFT-OFFWHITE W/MULTICOLOR FLAKES
1941051-70	BS 23.2-0025-VFT-OFFWHITE W/MULTICOLOR FLAKES
1941051-71	BS 23.3-0025-VFT-OFFWHITE W/MULTICOLOR FLAKES
1941051-72	BS 24.1-0025-VFT-BLUE W/MULTICOLOR FLAKES
1941051-73	BS 24.2-0025-VFT-BLUE W/MULTICOLOR FLAKES
1941051-74	BS 24.3-0025-VFT-BLUE W/MULTICOLOR FLAKES
1941051-75	BS 25.1-0025-FIRESTOP CAULKING (RED)
1941051-76.1	BS 25.2-0025-FIRESTOP CAULKING (RED)
1941051-76.2	BS 25.2-0025-FIRESTOP CAULKING (RED)
1941051-77	BS 25.3-0025-FIRESTOP CAULKING (RED)
1941051-78	BS 26.1-0027F-FIRESTOP CAULKING (PINK)
1941051-79	BS 26.2-0027F-FIRESTOP CAULKING (PINK)
1941051-80	BS 26.3-0027F-FIRESTOP CAULKING (PINK)
1941051-81	BS 27.1-0029-PARGING ON FOAM PIPE INSULATION
1941051-82	BS 27.2-0029-PARGING ON FOAM PIPE INSULATION
1941051-83	BS 27.3-0029-PARGING ON FOAM PIPE INSULATION
1941051-84	BS 28.1-0034A-WALL MASTIC
1941051-85	BS 28.2-0034A-WALL MASTIC
1941051-86	BS 28.3-0034A-WALL MASTIC
1941051-87	BS 29.1-0049-VFT-LIGHT BLUE W/BLACK&WHITE STREAKS
1941051-88	BS 29.2-0049-VFT-LIGHT BLUE W/BLACK&WHITE STREAKS
1941051-89	BS 29.3-0049-VFT-LIGHT BLUE W/BLACK&WHITE STREAKS
1941051-90.1	BS 30.1-0059-VFT-2'X2'-BEIGE W/BLACK&WHITE STREAKS
1941051-90.2	BS 30.1-0059-VFT-2'X2'-BEIGE W/BLACK&WHITE STREAKS
1941051-91.1	BS 31.1-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS
1941051-91.2	BS 31.1-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS
1941051-92.1	BS 30.3-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS
1941051-92.2	BS 30.3-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS
1941051-93.1	BS 31.1-107-VFT-12"X12"-WHITE WITH GREY FLAKES
1941051-93.2	BS 31.1-107-VFT-12"X12"-WHITE WITH GREY FLAKES
1941051-94.1	BS 31.2-107-VFT-12"X12"-WHITE WITH GREY FLAKES
1941051-94.2	BS 31.2-107-VFT-12"X12"-WHITE WITH GREY FLAKES
1941051-95.1	BS 31.3-107-VFT-12"X12"-WHITE WITH GREY FLAKES
1941051-95.2	BS 31.3-107-VFT-12"X12"-WHITE WITH GREY FLAKES
1941051-96.1	BS 32.1-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS
1941051-96.2	BS 32.1-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS
1941051-97.1	BS 32.2-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS

1941051-97.2	BS 32.2-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS
1941051-98.1	BS 32.3-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS
1941051-98.2	BS 32.3-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS
1941051-99	BS 33.1-204-VFT-GREY WITH WHITE SPOTS
1941051-AA	BS 33.2-204-VFT-GREY WITH WHITE SPOTS
1941051-AB	BS 33.3-204-VFT-GREY WITH WHITE SPOTS
1941051-AC.1	BS 34.1-210-CEMENTITIOUS FLOOR COATING
1941051-AC.2	BS 34.1-210-CEMENTITIOUS FLOOR COATING
1941051-AD.1	BS 34.2-210-CEMENTITIOUS FLOOR COATING
1941051-AD.2	BS 34.2-210-CEMENTITIOUS FLOOR COATING
1941051-AE.1	BS 34.3-210-CEMENTITIOUS FLOOR COATING
1941051-AF	BS 35.1-211 J-2X4'-SCT-PINHOLES WITH LARGE FISSURES
1941051-AG	BS 35.2-211 J-2X4"-SCT-PINHOLES WITH LARGE FISSURES
1941051-AH	BS 35.3-211 J-2X4"-SCT-PINHOLES WITH LARGE FISSURES
1941051-AI	BS 36.1-211-2'X4"-PARTICLE BOARD TILE
1941051-AJ	BS 36.2-211-2"X4"-PARTICLE BOARD TILE
1941051-AK	BS 36.3-211-2"X4"-PARTICLE BOARD TILE
1941051-AL	BS 37.1-211-CARPET MASTIC
1941051-AM	BS 37.2-211-CARPET MASTIC
1941051-AN	BS 37.3-211-CARPET MASTIC
1941051-AO.1	BS 38.1-301A-VFT-12"X12"-MULTICOLOR
1941051-AO.2	BS 38.1-301A-VFT-12"X12"-MULTICOLOR
1941051-AP.1	BS 38.2-301A-VFT-12"X12"-MULTICOLOR
1941051-AP.2	BS 38.2-301A-VFT-12"X12"-MULTICOLOR
1941051-AQ.1	BS 38.3-301A-VFT-12"X12"-MULTICOLOR
1941051-AQ.2	BS 38.3-301A-VFT-12"X12"-MULTICOLOR
1941051-AR.1	BS 39.1-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES
1941051-AR.2	BS 39.1-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES
1941051-AS.1	BS 39.2-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES
1941051-AS.2	BS 39.2-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES
1941051-AT.1	BS 39.3-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES
1941051-AT.2	BS 39.3-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES
1941051-AU.1	BS 40.1-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS
1941051-AU.2	BS 40.1-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS
1941051-AV.1	BS 40.2-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS
1941051-AV.2	BS 40.2-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS
1941051-AW	BS 40.3-312-VFT-12"X12"-WHITE WITH ORANGE SPOTS
1941051-AX	BS 41.1-301-VFT-12"X12"-BROWN
1941051-AY	BS 41.2-301-VFT-12"X12"-BROWN
1941051-AZ	BS 41.3-301-VFT-12"X12"-BROWN
1941051-BA.1	BS 42.1-301-VFT-12"X12"-BLUE
1941051-BA.2	BS 42.1-301-VFT-12"X12"-BLUE
1941051-BB	BS 42.2-301-VFT-12"X12"-BLUE
1941051-BC	BS 42.3-301-VFT-12"X12"-BLUE

1941051-BD.1	BS 43.1-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES
1941051-BD.2	BS 43.1-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES
1941051-BE.1	BS 43.2-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES
1941051-BE.2	BS 43.2-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES
1941051-BF.1	BS 43.3-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES
1941051-BF.2	BS 43.3-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES
1941051-BG.1	BS 44.1-320A-VFT-12"X12"-GREEN WITH FLAKES
1941051-BG.2	BS 44.1-320A-VFT-12"X12"-GREEN WITH FLAKES
1941051-BH.1	BS 44.2-320A-VFT-12"X12"-GREEN WITH FLAKES
1941051-BH.2	BS 44.2-320A-VFT-12"X12"-GREEN WITH FLAKES
1941051-BI.1	BS 44.3-320A-VFT-12"X12"-GREEN WITH FLAKES
1941051-BI.2	BS 44.3-320A-VFT-12"X12"-GREEN WITH FLAKES
1941051-BJ.1	BS 45.1-324-VFT-12"X12"-PURPLE
1941051-BJ.2	BS 45.1-324-VFT-12"X12"-PURPLE
1941051-BK.1	BS 45.2-324-VFT-12"X12"-PURPLE
1941051-BK.2	BS 45.2-324-VFT-12"X12"-PURPLE
1941051-BL.1	BS 45.3-324-VFT-12"X12"-PURPLE
1941051-BL.2	BS 45.3-324-VFT-12"X12"-PURPLE
1941051-BM	BS 46.1-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES
1941051-BN	BS 46.2-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES
1941051-BO.1	BS 46.3-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES
1941051-BO.2	BS 46.3-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES
1941051-BP	BS 47.1-301A-DRYWALL JOINT COMPOUND
1941051-BQ	BS 47.2-210A-DRYWALL JOINT COMPOUND
1941051-BR	BS 47.3-105-DRYWALL JOINT COMPOUND
1941051-BS	BS 47.4-026-DRYWALL JOINT COMPOUND
1941051-BT	BS 47.5-014-PERIMETER WALL-DRYWALL JOINT COMPOUND
1941051-BU	BS 47.6-014-PERIMETER WALL-DRYWALL JOINT COMPOUND
1941051-BV	BS 47.7-100G-AV RM-DRYWALL JOINT COMPOUND

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID		Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-01.1	3	19-Aug-19	Grey	Vinyl Floor Tile	**Yes**	**Client ID: BS 1.1-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES**	[AS-PRE]
						Chrysotile	1
						MMVF	4
						Non-Fibers	95
1941051-01.2	3	19-Aug-19	Black	Mastic	No	**Client ID: BS 1.1-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES**	
						Non-Fibers	100
1941051-02.1	3	19-Aug-19				**Client ID: BS 1.2-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES**	
						not analyzed	
1941051-02.2	3	19-Aug-19	Black	Mastic	No	**Client ID: BS 1.2-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES**	
						Non-Fibers	100
1941051-03.1	3	19-Aug-19				**Client ID: BS 1.3-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES**	
						not analyzed	
1941051-03.2	3	19-Aug-19	Black	Mastic	No	**Client ID: BS 1.3-100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES**	
						Non-Fibers	100
1941051-04	3	19-Aug-19	Off-white	Leveling Compound	No	**Client ID: BS 2.1-100G-ENTRANCE-FLOOR LEVELLING COMPOUND**	
						MMVF	1
						Non-Fibers	99
1941051-05	3	19-Aug-19	Off-white	Leveling Compound	No	**Client ID: BS 2.2-100G-ENTRANCE-FLOOR LEVELLING COMPOUND**	
						MMVF	1
						Non-Fibers	99
1941051-06	3	19-Aug-19	Off-white	Leveling Compound	No	**Client ID: BS 2.3-100G-ENTRANCE-FLOOR LEVELLING COMPOUND**	
						MMVF	1
						Non-Fibers	99
1941051-07	3	19-Aug-19	Black	Caulking	**Yes**	**Client ID: BS 3.1-100G-WINDOW CAULKING**	[AS-PRE]
						Chrysotile	8
						Non-Fibers	92

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-08	3 19-Aug-19				**Client ID: BS 3.2-100G-WINDOW CAULKING**	
					not analyzed	
1941051-09	3 19-Aug-19				**Client ID: BS 3.3-100G-WINDOW CAULKING**	
					not analyzed	
1941051-10	3 19-Aug-19	Brown	Caulking	**Yes**	**Client ID: BS 4.1-100G WALL CAULKING** [AS-PRE]	
					Chrysotile	5
					Non-Fibers	95
1941051-11	3 19-Aug-19				**Client ID: BS 4.2-100G WALL CAULKING**	
					not analyzed	
1941051-12	3 19-Aug-19				**Client ID: BS 4.3-100G WALL CAULKING**	
					not analyzed	
1941051-13	3 19-Aug-19	Grey/Black/Silver	Parging	**Yes**	**Client ID: BS 5.1-100G-PARGING ON SWEATWRAP** ASLYR, AS-PRE	
					Chrysotile	20
					Cellulose	15
					MMVF	15
					Non-Fibers	50
1941051-14	3 19-Aug-19				**Client ID: BS 5.2-100G-PARGING ON SWEATWRAP** [ASLYR]	
					not analyzed	
1941051-15	3 19-Aug-19				**Client ID: BS 5.3-100G-PARGING ON SWEATWRAP** [ASLYR]	
					not analyzed	
1941051-16	3 19-Aug-19	Yellow	Mastic	No	**Client ID: BS 6.1-"014-TOP OF STAIRCASE-CARPET MASTIC**	
					Non-Fibers	100
1941051-17	3 19-Aug-19	Yellow	Mastic	No	**Client ID: BS 6.2-"014-TOP OF STAIRCASE-CARPET MASTIC**	
					Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-18	3 19-Aug-19	Yellow	Mastic	No	**Client ID: BS 6.3-"014-TOP OF STAIRCASE-CARPET MASTIC**	
					Non-Fibers	100
1941051-19	3 19-Aug-19	Blue/Beige/ White	Wallpaper/mastic	No	**Client ID: BS 7.1-014-WALLPAPER MASTIC**	[ASLYR]
					Cellulose	10
					Non-Fibers	90
1941051-20	3 19-Aug-19	Blue/Beige/ White	Wallpaper/Mastic	No	**Client ID: BS 7.2-014-WALLPAPER MASTIC**	
					Cellulose	10
					Non-Fibers	90
1941051-21	3 19-Aug-19	Blue/Beige/ White	Wallpaper/Mastic	No	**Client ID: BS 7.3-014-WALLPAPER MASTIC**	
					Cellulose	10
					Non-Fibers	90
1941051-22	3 19-Aug-19	Black	Mastic	No	**Client ID: BS 8.1-014-STAGE-FLOOR MASTIC**	
					Cellulose	5
					Non-Fibers	95
1941051-23	3 19-Aug-19	Black	Mastic	No	**Client ID: BS 8.2-014-STAGE-FLOOR MASTIC**	
					Cellulose	5
					Non-Fibers	95
1941051-24	3 19-Aug-19	Black	Mastic	No	**Client ID: BS 8.3-014-STAGE-FLOOR MASTIC**	
					Cellulose	5
					Non-Fibers	95
1941051-25	3 19-Aug-19	Off-white	Deep Texture	No	**Client ID: BS 9.1-014-2'X2'-SCT-DEEP TEXTURE**	
					Cellulose	10
					MMVF	40
					Non-Fibers	50

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-26	3 19-Aug-19	Off-white	Deep Texture	No	**Client ID: BS 9.2-014-2"X2"-SCT-DEEP TEXTURE**	
					Cellulose	10
					MMVF	40
					Non-Fibers	50
1941051-27	3 19-Aug-19	Off-white	Deep Texture	No	**Client ID: BS 9.3-014-2"X2"-SCT-DEEP TEXTURE**	
					Cellulose	10
					MMVF	40
					Non-Fibers	50
1941051-28	3 19-Aug-19	Yellow	Mastic	**Yes**	**Client ID: BS 10.1-014-WALL MASTIC**	
						[AS-PRE, AS-PT]
				[ASTrc]	**Chrysotile**	0.5
					Non-Fibers	99.5
1941051-29	3 19-Aug-19				**Client ID: BS 10.2-014-WALL MASTIC**	
					not analyzed	
1941051-30	3 19-Aug-19				**Client ID: BS 10.3-014-WALL MASTIC**	
					not analyzed	
1941051-31	1 19-Aug-19	Grey	Parging	**Yes**	**Client ID: BS 11.1-014B-STORAGE RM-PARGING ON ELBOW**	
					Chrysotile	60
					Non-Fibers	40
1941051-32	1 19-Aug-19				**Client ID: BS 11.2-014B-STORAGE RM-PARGING ON ELBOW**	
					not analyzed	
1941051-33	1 19-Aug-19				**Client ID: BS 11.3-014B-STORAGE RM-PARGING ON ELBOW**	
					not analyzed	
1941051-34	1 19-Aug-19	Grey	Mortar	No	**Client ID: BS 12.1-014C-CONCRETE BLOCK MORTAR**	
					Non-Fibers	100
1941051-35	1 19-Aug-19	Grey	Mortar	No	**Client ID: BS 12.2-014C-CONCRETE BLOCK MORTAR**	
					Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-36	1 19-Aug-19	Grey	Mortar	No	**Client ID: BS 12.3-014C-CONCRETE BLOCK MORTAR**	
					Non-Fibers	100
1941051-37	1 19-Aug-19	Grey	Grout	No	**Client ID: BS 13.1-018B-CERAMIC TILE GROUT**	
					Non-Fibers	100
1941051-38	1 19-Aug-19	Grey	Grout	No	**Client ID: BS 13.2-018B-CERAMIC TILE GROUT**	
					Non-Fibers	100
1941051-39	1 19-Aug-19	Grey	Grout	No	**Client ID: BS 13.3-018B-CERAMIC TILE GROUT**	
					Non-Fibers	100
1941051-40	1 19-Aug-19	Beige	Mastic	No	**Client ID: BS 14.1-018B-FLOOR MASTIC**	
					Non-Fibers	100
1941051-41	1 19-Aug-19	Beige	Mastic	No	**Client ID: BS 14.2-018B-FLOOR MASTIC**	
					Non-Fibers	100
1941051-42	1 19-Aug-19	Beige	Mastic	No	**Client ID: BS 14.3-018B-FLOOR MASTIC**	
					Non-Fibers	100
1941051-43.1	1 19-Aug-19	Beige	Vinyl Floor Tile	**Yes**	**Client ID: BS 15.1-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES**	
					Chrysotile	2
					Non-Fibers	98
1941051-43.2	1 19-Aug-19	Black	Mastic	No	**Client ID: BS 15.1-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES**	
					Non-Fibers	100
1941051-44.1	1 19-Aug-19				**Client ID: BS 15.2-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES**	
					not analyzed	
1941051-44.2	1 19-Aug-19	Black	Mastic	No	**Client ID: BS 15.2-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES**	
					Non-Fibers	100
1941051-45.1	1 19-Aug-19				**Client ID: BS 15.3-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES**	
					not analyzed	

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-45.2 1	19-Aug-19	Black	Mastic	No	**Client ID: BS 15.3-031C-STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES**	
					Non-Fibers	100
1941051-46 1	19-Aug-19	Grey	Vinyl Sheet Flooring	No	**Client ID: BS 16.1-031C-VSF-GRAY**	
					Non-Fibers	100
1941051-47 1	19-Aug-19	Grey	Vinyl Sheet Flooring	No	**Client ID: BS 16.2-031C-VSF-GRAY**	
					Non-Fibers	100
1941051-48 1	19-Aug-19	Grey	Vinyl Sheet Flooring	No	**Client ID: BS 16.3-031C-VSF-GRAY**	
					Non-Fibers	100
1941051-49 1	19-Aug-19	Beige	Texture Coat	No	**Client ID: BS 17.1-031-COMMON AREA-CEILING TEXTURE COAT**	
					Non-Fibers	100
1941051-50 1	19-Aug-19	Beige	Texture Coat	No	**Client ID: BS 17.2-031-COMMON AREA-CEILING TEXTURE COAT**	
					Non-Fibers	100
1941051-51 1	19-Aug-19	Beige	Texture Coat	No	**Client ID: BS 17.3-031-COMMON AREA-CEILING TEXTURE COAT**	
					Non-Fibers	100
1941051-52 1	19-Aug-19	Beige	Texture Coat	No	**Client ID: BS 17.4-031-COMMON AREA-CEILING TEXTURE COAT**	
					Non-Fibers	100
1941051-53 1	19-Aug-19	Beige	Texture Coat	No	**Client ID: BS 17.5-031-COMMON AREA-CEILING TEXTURE COAT**	
					Non-Fibers	100
1941051-54 1	19-Aug-19	Green	Vinyl Sheet Flooring	No	**Client ID: BS 18.1-034A-VSF-GREEN W/MULTICOLOR DOTS**	
					Cellulose	5
					MMVF	3
					Non-Fibers	92

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-55 1	19-Aug-19	Green	Vinyl Sheet Flooring	No	**Client ID: BS 18.2-034A-VSF-GREEN W/MULTICOLOR DOTS**	
					Cellulose	5
					MMVF	3
					Non-Fibers	92
1941051-56 1	19-Aug-19	Green	Vinyl Sheet Flooring	No	**Client ID: BS 18.3-034A-VSF-GREEN W/MULTICOLOR DOTS**	
					Cellulose	5
					MMVF	3
					Non-Fibers	92
1941051-57.1 1	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 19.1-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES**	
					Non-Fibers	100
1941051-57.2 1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 19.1-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES**	
					Non-Fibers	100
1941051-58.1 1	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 19.2-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES**	
					Non-Fibers	100
1941051-58.2 1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 19.2-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES**	
					Non-Fibers	100
1941051-59.1 1	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 19.3-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES**	
					Non-Fibers	100
1941051-59.2 1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 19.3-026-VFT12"X12"-LIGHT BEIGE WITH FLAKES**	
					Non-Fibers	100
1941051-60 1	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 20.1-08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES**	
					Non-Fibers	100
1941051-61 1	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 20.2-08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES**	
					Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-62	1 19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 20.3-08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES**	
					Non-Fibers	100
1941051-63	1 19-Aug-19	Peach	Vinyl Floor Tile	No	**Client ID: BS 21.1-08D-VFT-12"X12"-PEACH W/WHITE FLAKES**	
					Non-Fibers	100
1941051-64	1 19-Aug-19	Peach	Vinyl Floor Tile	No	**Client ID: BS 21.2-08D-VFT-12"X12"-PEACH W/WHITE FLAKES**	
					Non-Fibers	100
1941051-65	1 19-Aug-19	Peach	Vinyl Floor Tile	No	**Client ID: BS 21.3-08D-VFT-12"X12"-PEACH W/WHITE FLAKES**	
					Non-Fibers	100
1941051-66	1 19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 22.1-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES**	
					Non-Fibers	100
1941051-67	1 19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 22.2-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES**	
					Non-Fibers	100
1941051-68	1 19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 22.3-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES**	
					Non-Fibers	100
1941051-69	1 19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 23.1-0025-VFT-OFFWHITE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-70	1 19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 23.2-0025-VFT-OFFWHITE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-71	1 19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 23.3-0025-VFT-OFFWHITE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-72	1 19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 24.1-0025-VFT-BLUE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-73	1 19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 24.2-0025-VFT-BLUE W/MULTICOLOR FLAKES**	
					Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-74	1 19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 24.3-0025-VFT-BLUE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-75	1 19-Aug-19	Red	Caulking	No	**Client ID: BS 25.1-0025-FIRESTOP CAULKING (RED)**	
					Non-Fibers	100
1941051-76.1	1 19-Aug-19	Red	Caulking	No	**Client ID: BS 25.2-0025-FIRESTOP CAULKING (RED)**	
					Non-Fibers	100
1941051-76.2	1 19-Aug-19	Beige	Fibreglass	No	**Client ID: BS 25.2-0025-FIRESTOP CAULKING (RED)**	
					MMVF	98
					Non-Fibers	2
1941051-77	1 19-Aug-19	Red	Caulking	No	**Client ID: BS 25.3-0025-FIRESTOP CAULKING (RED)**	
					Non-Fibers	100
1941051-78	1 19-Aug-19	Pink	Caulking	No	**Client ID: BS 26.1-0027F-FIRESTOP CAULKING (PINK)**	
					Non-Fibers	100
1941051-79	1 19-Aug-19	Pink	Caulking	No	**Client ID: BS 26.2-0027F-FIRESTOP CAULKING (PINK)**	
					Non-Fibers	100
1941051-80	1 19-Aug-19	Pink	Caulking	No	**Client ID: BS 26.3-0027F-FIRESTOP CAULKING (PINK)**	
					Non-Fibers	100
1941051-81	1 19-Aug-19	Grey	Parging	**Yes**	**Client ID: BS 27.1-0029-PARGING ON FOAM PIPE INSULATION**	
					Chrysotile	30
					Non-Fibers	70
1941051-82	1 19-Aug-19				**Client ID: BS 27.2-0029-PARGING ON FOAM PIPE INSULATION**	
					not analyzed	
1941051-83	1 19-Aug-19				**Client ID: BS 27.3-0029-PARGING ON FOAM PIPE INSULATION**	
					not analyzed	

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID		Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-84	1	19-Aug-19	Brown	Mastic	No	**Client ID: BS 28.1-0034A-WALL MASTIC**	
						Non-Fibers	100
1941051-85	1	19-Aug-19	Brown	Mastic	No	**Client ID: BS 28.2-0034A-WALL MASTIC**	
						Non-Fibers	100
1941051-86	1	19-Aug-19	Brown	Mastic	No	**Client ID: BS 28.3-0034A-WALL MASTIC**	
						Non-Fibers	100
1941051-87	1	19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 29.1-0049-VFT-LIGHT BLUE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-88	1	19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 29.2-0049-VFT-LIGHT BLUE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-89	1	19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 29.3-0049-VFT-LIGHT BLUE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-90.1	1	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 30.1-0059-VFT-2'X2'-BEIGE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-90.2	1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 30.1-0059-VFT-2'X2'-BEIGE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-91.1	1	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 31.1-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-91.2	1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 31.1-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-92.1	1	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 30.3-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100
1941051-92.2	1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 30.3-0059-VFT-2"X2"-BEIGE W/BLACK&WHITE STREAKS**	
						Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-93.1 1	19-Aug-19	White	Vinyl Floor Tile	No	**Client ID: BS 31.1-107-VFT-12"X12"-WHITE WITH GREY FLAKES**	
					Non-Fibers	100
1941051-93.2 1	19-Aug-19	Black	Mastic	No	**Client ID: BS 31.1-107-VFT-12"X12"-WHITE WITH GREY FLAKES**	
					Non-Fibers	100
1941051-94.1 1	19-Aug-19	White	Vinyl Floor Tile	No	**Client ID: BS 31.2-107-VFT-12"X12"-WHITE WITH GREY FLAKES**	
					Non-Fibers	100
1941051-94.2 1	19-Aug-19	Black	Mastic	No	**Client ID: BS 31.2-107-VFT-12"X12"-WHITE WITH GREY FLAKES**	
					Non-Fibers	100
1941051-95.1 1	19-Aug-19	White	Vinyl Floor Tile	No	**Client ID: BS 31.3-107-VFT-12"X12"-WHITE WITH GREY FLAKES**	
					Non-Fibers	100
1941051-95.2 1	19-Aug-19	Black	Mastic	No	**Client ID: BS 31.3-107-VFT-12"X12"-WHITE WITH GREY FLAKES**	
					Non-Fibers	100
1941051-96.1 1	19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 32.1-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS**	
					Non-Fibers	100
1941051-96.2 1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 32.1-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS**	
					Non-Fibers	100
1941051-97.1 1	19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 32.2-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS**	
					Non-Fibers	100
1941051-97.2 1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 32.2-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS**	
					Non-Fibers	100
1941051-98.1 1	19-Aug-19	Off-white	Vinyl Floor Tile	No	**Client ID: BS 32.3-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS**	
					Non-Fibers	100
1941051-98.2 1	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 32.3-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS**	
					Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-99 1	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 33.1-204-VFT-GREY WITH WHITE SPOTS**	
					Non-Fibers	100
1941051-AA 1	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 33.2-204-VFT-GREY WITH WHITE SPOTS**	
					Non-Fibers	100
1941051-AB 1	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 33.3-204-VFT-GREY WITH WHITE SPOTS**	
					Non-Fibers	100
1941051-AC.1 1	19-Aug-19	Grey	Floor coating	No	**Client ID: BS 34.1-210-CEMENTITIOUS FLOOR COATING**	
					Non-Fibers	100
1941051-AC.2 1	19-Aug-19	Beige	Drywall Joint Compound	**Yes**	**Client ID: BS 34.1-210-CEMENTITIOUS FLOOR COATING**	
					Chrysotile	1
					Non-Fibers	99
1941051-AD.1 1	19-Aug-19	Grey	Floor coating	No	**Client ID: BS 34.2-210-CEMENTITIOUS FLOOR COATING**	
					Non-Fibers	100
1941051-AD.2 1	19-Aug-19				**Client ID: BS 34.2-210-CEMENTITIOUS FLOOR COATING**	
					not analyzed	
1941051-AE.1 1	19-Aug-19	Grey	Floor coating	No	**Client ID: BS 34.3-210-CEMENTITIOUS FLOOR COATING**	
					Non-Fibers	100
1941051-AF 1	19-Aug-19	Grey	Ceiling Tile	No	**Client ID: BS 35.1-211 J-2X4'-SCT-PINHOLES WITH LARGE FISSURES**	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1941051-AG 1	19-Aug-19	Grey	Ceiling Tile	No	**Client ID: BS 35.2-211 J-2X4"-SCT-PINHOLES WITH LARGE FISSURES**	
					Cellulose	40
					MMVF	30
					Non-Fibers	30

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-AH 1	19-Aug-19	Grey	Ceiling Tile	No	**Client ID: BS 35.3-211 J-2X4"-SCT-PINHOLES WITH LARGE FISSURES**	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
1941051-AI 1	19-Aug-19	Grey	Particle board tile	No	**Client ID: BS 36.1-211-2'X4"-PARTICLE BOARD TILE**	
					Cellulose	80
					Non-Fibers	20
1941051-AJ 1	19-Aug-19	Grey	Particle board tile	No	**Client ID: BS 36.2-211-2"X4"-PARTICLE BOARD TILE**	
					Cellulose	80
					Non-Fibers	20
1941051-AK 1	19-Aug-19	Grey	Particle board tile	No	**Client ID: BS 36.3-211-2"X4"-PARTICLE BOARD TILE**	
					Cellulose	80
					Non-Fibers	20
1941051-AL 2	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 37.1-211-CARPET MASTIC**	
					Cellulose	3
					Non-Fibers	97
1941051-AM 2	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 37.2-211-CARPET MASTIC**	
					Cellulose	3
					Non-Fibers	97
1941051-AN 2	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 37.3-211-CARPET MASTIC**	
					Cellulose	3
					Non-Fibers	97
1941051-AO.1 2	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 38.1-301A-VFT-12"X12"-MULTICOLOR**	
					Non-Fibers	100
1941051-AO.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 38.1-301A-VFT-12"X12"-MULTICOLOR**	
					Non-Fibers	100

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-AP.1 2	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 38.2-301A-VFT-12"X12"-MULTICOLOR**	
					Non-Fibers	100
1941051-AP.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 38.2-301A-VFT-12"X12"-MULTICOLOR**	
					Non-Fibers	100
1941051-AQ.1 2	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 38.3-301A-VFT-12"X12"-MULTICOLOR**	
					Non-Fibers	100
1941051-AQ.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 38.3-301A-VFT-12"X12"-MULTICOLOR**	
					Non-Fibers	100
1941051-AR.1 2	19-Aug-19	Red	Vinyl Floor Tile	No	**Client ID: BS 39.1-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES**	
					Non-Fibers	100
1941051-AR.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 39.1-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES**	
					Non-Fibers	100
1941051-AS.1 2	19-Aug-19	Red	Vinyl Floor Tile	No	**Client ID: BS 39.2-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES**	
					Non-Fibers	100
1941051-AS.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 39.2-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES**	
					Non-Fibers	100
1941051-AT.1 2	19-Aug-19	Red	Vinyl Floor Tile	No	**Client ID: BS 39.3-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES**	
					Non-Fibers	100
1941051-AT.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 39.3-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES**	
					Non-Fibers	100
1941051-AU.1 2	19-Aug-19	White	Vinyl Floor Tile	No	**Client ID: BS 40.1-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS**	
					Non-Fibers	100
1941051-AU.2 2	19-Aug-19	Yellow	Mastic	No	**Client ID: BS 40.1-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS**	
					Non-Fibers	100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-AV.1 2	19-Aug-19	White	Vinyl Floor Tile	No	**Client ID: BS 40.2-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS**	
					Non-Fibers	100
1941051-AV.2 2	19-Aug-19	Colourless	Mastic	No	**Client ID: BS 40.2-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS**	
					Non-Fibers	100
1941051-AW 2	19-Aug-19	White	Vinyl Floor Tile	No	**Client ID: BS 40.3-312-VFT-12"X12"-WHITE WITH ORANGE SPOTS**	
					Non-Fibers	100
1941051-AX 2	19-Aug-19	Brown	Vinyl Floor Tile	No	**Client ID: BS 41.1-301-VFT-12"X12"-BROWN**	
					Non-Fibers	100
1941051-AY 2	19-Aug-19	Brown	Vinyl Floor Tile	No	**Client ID: BS 41.2-301-VFT-12"X12"-BROWN**	
					Non-Fibers	100
1941051-AZ 2	19-Aug-19	Brown	Vinyl Floor Tile	No	**Client ID: BS 41.3-301-VFT-12"X12"-BROWN**	
					Non-Fibers	100
1941051-BA.1 2	19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 42.1-301-VFT-12"X12"-BLUE**	
					Non-Fibers	100
1941051-BA.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 42.1-301-VFT-12"X12"-BLUE**	
					Non-Fibers	100
1941051-BB 2	19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 42.2-301-VFT-12"X12"-BLUE**	
					Non-Fibers	100
1941051-BC 2	19-Aug-19	Blue	Vinyl Floor Tile	No	**Client ID: BS 42.3-301-VFT-12"X12"-BLUE**	
					Non-Fibers	100
1941051-BD.1 2	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 43.1-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES**	
					Non-Fibers	100
1941051-BD.2 2	19-Aug-19	Black/Grey	Mastic/Leveling Compound	No	**Client ID: BS 43.1-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES**	[Z-01]
					Cellulose	3
					Non-Fibers	97

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-BE.1 2	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 43.2-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES**	
					Non-Fibers	100
1941051-BE.2 2	19-Aug-19	Black/Grey	Mastic/Leveling Compound	No	**Client ID: BS 43.2-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES** [Z-01]	
					Cellulose	3
					Non-Fibers	97
1941051-BF.1 2	19-Aug-19	Beige	Vinyl Floor Tile	No	**Client ID: BS 43.3-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES**	
					Non-Fibers	100
1941051-BF.2 2	19-Aug-19	Black/Grey	Mastic/Leveling Compound	No	**Client ID: BS 43.3-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES** [Z-01]	
					Cellulose	3
					Non-Fibers	97
1941051-BG.1 2	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 44.1-320A-VFT-12"X12"-GREEN WITH FLAKES**	
					Non-Fibers	100
1941051-BG.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 44.1-320A-VFT-12"X12"-GREEN WITH FLAKES**	
					Non-Fibers	100
1941051-BH.1 2	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 44.2-320A-VFT-12"X12"-GREEN WITH FLAKES**	
					Non-Fibers	100
1941051-BH.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 44.2-320A-VFT-12"X12"-GREEN WITH FLAKES**	
					Non-Fibers	100
1941051-BI.1 2	19-Aug-19	Grey	Vinyl Floor Tile	No	**Client ID: BS 44.3-320A-VFT-12"X12"-GREEN WITH FLAKES**	
					Non-Fibers	100
1941051-BI.2 2	19-Aug-19	Black	Mastic	No	**Client ID: BS 44.3-320A-VFT-12"X12"-GREEN WITH FLAKES**	
					Non-Fibers	100
1941051-BJ.1 2	19-Aug-19	Purple	Vinyl Floor Tile	No	**Client ID: BS 45.1-324-VFT-12"X12"-PURPLE**	
					Non-Fibers	100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-BJ.2 2	19-Aug-19	Colourless	Mastic	No	**Client ID: BS 45.1-324-VFT-12"X12"-PURPLE**	
					Non-Fibers	100
1941051-BK.1 2	19-Aug-19	Purple	Vinyl Floor Tile	No	**Client ID: BS 45.2-324-VFT-12"X12"-PURPLE**	
					Non-Fibers	100
1941051-BK.2 2	19-Aug-19	Colourless	Mastic	No	**Client ID: BS 45.2-324-VFT-12"X12"-PURPLE**	
					Non-Fibers	100
1941051-BL.1 2	19-Aug-19	Purple	Vinyl Floor Tile	No	**Client ID: BS 45.3-324-VFT-12"X12"-PURPLE**	
					Non-Fibers	100
1941051-BL.2 2	19-Aug-19	Colourless	Mastic	No	**Client ID: BS 45.3-324-VFT-12"X12"-PURPLE**	
					Non-Fibers	100
1941051-BM 2	19-Aug-19	Orange	Vinyl Floor Tile	No	**Client ID: BS 46.1-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-BN 2	19-Aug-19	Orange	Vinyl Floor Tile	No	**Client ID: BS 46.2-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-BO.1 2	19-Aug-19	Orange	Vinyl Floor Tile	No	**Client ID: BS 46.3-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES**	
					Non-Fibers	100
1941051-BO.2 2	19-Aug-19	Grey/Colourless	Leveling Compound/Mastic	No	**Client ID: BS 46.3-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES**	[Z-01]
					Cellulose	3
					Non-Fibers	97
1941051-BP 2	19-Aug-19	White	Drywall Joint Compound	No	**Client ID: BS 47.1-301A-DRYWALL JOINT COMPOUND**	
					Non-Fibers	100
1941051-BQ 2	19-Aug-19	White	Drywall Joint Compound	No	**Client ID: BS 47.2-210A-DRYWALL JOINT COMPOUND**	
					Non-Fibers	100
1941051-BR 2	19-Aug-19	White	Drywall Joint Compound	No	**Client ID: BS 47.3-105-DRYWALL JOINT COMPOUND**	
					Non-Fibers	100

PARACEL LABORATORIES LTD.

Order #: 1941051

Certificate of Analysis

Report Date: 02-Dec-2019

Client: McIntosh Perry Limited (Concord)

Order Date: 4-Oct-2019

Client PO:

Project Description: UNIVERSITY CENTRE

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
1941051-BS	2 19-Aug-19	Grey	Drywall Joint Compound	No	**Client ID: BS 47.4-026-DRYWALL JOINT COMPOUND**	
					Non-Fibers	100
1941051-BT	2 19-Aug-19	White	Drywall Joint Compound	No	**Client ID: BS 47.5-014-PERIMETER WALL-DRYWALL JOINT COMPOUND**	
					Non-Fibers	100
1941051-BU	2 19-Aug-19	Beige	Drywall Joint Compound	**Yes**	**Client ID: BS 47.6-014-PERIMETER WALL-DRYWALL JOINT COMPOUND**	
					Chrysotile	1
					Non-Fibers	99
1941051-BV	2 19-Aug-19				**Client ID: BS 47.7-100G-AV RM-DRYWALL JOINT COMPOUND**	
					not analyzed	

**** Analytes in bold indicate asbestos mineral content.**

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	NVLAP Lab Code *	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	1 - Mississauga	200863-0	12-Oct-19
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	2 - Ottawa West Lab	200812-0	15-Oct-19
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	3 - Calgary		15-Oct-19

* Reference to the NVLAP term does not permit the user of this report to claim product certification , approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Calgary Lab: 1423 45 Ave NE, Unit F Calgary, AB, T2E 2P3

Qualifier Notes

Sample Qualifiers :

ASLYR:	Layers were noted for this sample, however, the entire sample was homogenized per client request.
AS-PRE:	Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis
AS-PT:	Asbestos quantitation by PLM Point Count method.
ASTrc:	Trace asbestos was observed below the noted detection limit but could not be accurately quantified.
Z-01:	Layers inseparable.

Work Order Revisions | Comments

REVISION-2: This report includes updated Sample IDs, as per client.

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

t. Laurent Blvd.
tario K1G 4J8
9-1947
paracellabs.com

Chain of Custody
(Lab Use Only)

Page 1 of 13

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:
Telephone: 647-226-6738	Email Address: a.mohamed@mcintoshperry.com

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required: 2 day extension as per Atif. KV

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 1.1 - 100G-VFT-12"X12"-BEIGE W/WHITE+BROWN FLAKES	Aug 14/19				X
2	BS 1.2 - " "					X
3	BS 1.3- " "					X
4	BS 2.1-100G-ENTRANCE-FLOOR LEVELLING COMPOUND					X
5	BS 2.2 - " "					X
6	BS 2.3-" "					X
7	BS 3.1- 100G- WINDOW CAULKING					X
8	BS 3.2 -" "					X
9	BS 3.3 -" "					X
10	BS 4.1-100G WALL CAULKING					X
11	BS 4.2 - " "					X
12	BS 4.3- " "					X

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery: Walkin

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M.			
Date/Time: Oct 4 @ 16:15	Date/Time:	Date/Time: 10/04/19 4:40	Date/Time: Oct 7/19 14:47

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

ad Office
0-2319 St. Laurent Blvd.
tawa, Ontario K1G 4J8
1-800-749-1947
paracel@paracellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE	**Turnaround Time:**
Contact Name: ATIF MOHAMED	Quote #:	o Immediate o 1 Day
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:	o 4 Hour o 2 Day
	Email Address: a.mohamed@mcintoshperry.com	o 8 Hour o 3 Day
Telephone: 647-226-6738		**o Regular**
		Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

	Paracel Order Number: 1941051 Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 5.1-100G-PARGING ON SWEATWRAP	Oct 9/19			HOMOGENIZE	
2	BS5.2- " "				" "	
3	BS 5.3-" "				" "	
4	BS 6.1-"014-TOP OF STAIRCASE-CARPET MASTIC					
5	BS 6.2-" "					
6	BS 6.3-"					
7	BS 7.1 -014-WALLPAPER MASTIC				HOMOGENIZE	
8	BS 7.2 - " "				" "	
9	BS 7.3 - " "					
10	BS 8.1- 014 -STAGE-FLOOR MASTIC					
11	BS 8.2-" "					
12	BS 8.3-" "					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Atif M			
Date/Time:	Date/Time:	Date/Time: 10/04/19 4:10	Date/Time: Oct 7/19 14:47

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

Office
319 St. Laurent Blvd.
a, Ontario K1G 4J8
00-749-1947
acel@paracellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:
	Email Address: a.mohamed@mcintoshperry.com
Telephone: 647-226-6738	

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 9.1 - 014-2'X2'-SCT-DEEP TEXTURE	Aug 19/19				
2	BS 9.2 - " "					
3	BS 9.3 - " "					
4	BS 10.1- 014-WALL MASTIC					
5	BS 10.2- " "	Aug 20/19				
6	BS 10.3 - " "					
7	BS 11.1 -014B-STORAGE RM - PARGING ON ELBOW					
8	BS 11.2 - " "					
9	BS 11.3 - " "					
10	BS 12.1-014C-CONCRETE BLOCK MORTAR					
11	BS 12.2 -" "					
12	BS 12.3-" "					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M.			
Date/Time:	Date/Time:	Date/Time: 10/04/19 4:10p	Date/Time: CoA 7/19 14:41

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

Office
9 St. Laurent Blvd.
Ontario K1G 4J8
)-749-1947
cel@paracellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:
	Email Address: a.mohamed@mcintoshperry.com
Telephone: 647-226-6738	

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 13.1- 018B -CERAMIC TILE GROUT	Aug 20				
2	BS 13.2 -" "					
3	BS 13.3 -" "					
4	BS 14.1- 018B - FLOOR MASTIC					
5	BS 14.2 -" "					
6	BS 14.3 - " "					
7	BS 15.1 - 031C -STORAGE ROOM-VFT-12"X12"-BEIGE W/GREY FLAKES					
8	BS 15.2 -" "					
9	BS 15.3 -" "					
10	BS 16.1 -031C-VSF-GRAY					
11	BS 16.2 - " "					
12	BS 16.3 -" "					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M			
Date/Time:	Date/Time:	Date/Time: 10/04/19 4:20 pm	Date/Time: Oct 7/19 14:47

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

ice
St. Laurent Blvd.
Ontario K1G 4J8
749-1947
leparacellabs.com

Chain of Custody
(Lab Use Only)

Page 5 of 13

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE	**Turnaround Time:**
Contact Name: ATIF MOHAMED	Quote #:	o Immediate o 1 Day o 4 Hour o 2 Day o 8 Hour o 3 Day **o Regular**
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:	
Telephone: 647-226-6738	Email Address: a.mohamed@mcintoshperry.com	Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 17.1 - 031- COMMON AREA -CEILING TEXTURE COAT+~~A17-AW29B21D17~~	Aug 29/19				
2	BS 17.2 -"	"				
3	BS 17.3- "	"				
4	BS 17.4- "	"				
5	BS 17.5 -"	"				
6	BS 18.1 - 034A-VSF-GREEN W/MULTICOLOR DOTS					
7	BS 18.2 -"	"				
8	BS 18.3-"	"				
9	BS 19.1 -026-VFT12"X12"-LIGHT BEIGE WITH FLAKES					
10	BS 19.2 -"	"				
11	BS 19.3- "	"				
12	BS 20.1- 08C-VFT-12"X12"-GREY W/LIGHT GREY FLAKES					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M			
Date/Time:	Date/Time:	Date/Time: 10/01/19 4:10	Date/Time: Oct 7/19 14:47

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

' Office
:319 St. Laurent Blvd.
va, Ontario K1G 4J8
800-749-1947
iraceleparacellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:
	Email Address: a.mohamed@mcintoshperry.com
Telephone: 647-226-6738	

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941150 C51

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 20.2- "	May 24/19				
2	BS 20.3 -"	↓				
3	BS 21.1- 08D - VFT-12"X12"-PEACH W/WHITE FLAKES	May 24/19				
4	BS 21.2-"					
5	BS 21.3-"					
6	BS 23.1-07C-VFT-12"X12"-OFFWHITE W/GREY FLAKES					
7	BS 23.2-"					
8	BS 23.3-"					
9	BS 24.1- 0025-VFT-OFFWHITE W/MULITCOLOR FLAKES					
10	BS 24.2-"					
11	BS 24.3-"					
12	BS 25.1-0025-VFT-BLUE W/MULTICOLOR FLAKES	↓				

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M.			
Date/Time:	Date/Time:	Date/Time: May 24/19 4:10pm	Date/Time: MAY 7/19 14:47

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

Office
319 St. Laurent Blvd.
a, Ontario K1G 4J8
100-749-1947
racel@paracellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:
	Email Address: a.mohamed@mcintoshperry.com
Telephone: 647-226-6738	

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 25.2-" "	May21/19				
2	BS 25.3-" "					
3	BS 26.1-0025-FIRESTOP CAULKING (RED)					
4	BS 26.2-" "					
5	BS 26.3-" "					
6	BS 27.1-0027F-FIRESTOP CAULKING (PINK)					
7	BS 27.2-" "					
8	BS 27.3-" "					
9	BS 28.1- 0029-PARGING ON FOAM PIPE INSULATION					
10	BS 28.2 -" "					
11	BS 28.3-" "					
12	BS 29.1- 0034A-WALL MASTIC					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M			
Date/Time:	Date/Time:	Date/Time: 10/04/19 4:10pm	Date/Time: Oct 7/19 1447

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

Office
319 St. Laurent Blvd.
a, Ontario K1G 4J8
00-749-1947
aceleparacellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE	Turnaround Time:
Contact Name: ATIF MOHAMED	Quote #:	o Immediate o 1 Day o 4 Hour o 2 Day o 8 Hour o 3 Day o Regular
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:	
Telephone: 647-226-6738	Email Address: a.mohamed@mcintoshperry.com	Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 29.2-"	Aug 2/19				
2	BS 29.3-"					
3	BS 30.1-0049-VFT-LIGHT BLUE W/BLACK & WHITE STREAKS	Aug 20/19				
4	BS 30.2-"					
5	BS 30.3-"					
6	BS 31.1-0059-VFT-2'X2'-BEIGE W/BLACK&WHITE STREAKS					
7	BS 31.2-"					
8	BS 31.3-"					
9	BS 32.1-107-VFT-12"X12"-WHITE WITH GREY FLAKES					
10	BS 32.2-"					
11	BS 32.3-"					
12	BS 33.1-204-VFT-12"X12"-OFFWHITE W/BLACK SPOTS					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Atif M.			
Date/Time:	Date/Time:	Date/Time: 10/04/19 4:10pm	Date/Time: Oct 7/19 1447

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

ce
St. Laurent Blvd.
ntario K1G 4J8
749-1947
laparacellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:
Telephone: 647-226-6738	Email Address: a.mohamed@mcintoshperry.com

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 33.2- "	May 20/14				
2	BS 33.3-"					
3	BS 34.1-204-VFT-GREY WITH WHITE SPOTS					
4	BS 34.2-"					
5	BS 34.3-"					
6	BS 35.1-210-CEMENTITIOUS FLOOR COATING					
7	BS 35.2-"					
8	BS 35.3- "					
9	BS 36.1-211 J- 2X'4'-SCT-PINHOLES WITH LARGE FISSURES					
10	BS 36.2- "					
11	BS 36.3- "					
12	BS 37.1- 211-2'X4"-PARTICLE BOARD TILE					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M.	Date/Time:	Date/Time: 10/04/19 4:10pm	Date/Time: Oct 7/19/14:47
Date/Time:			

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

ffice
9 St. Laurent Blvd.
Ontario K1G 4J8
)-749-1947
:eleparacellabs.com

(Lab Use Only)

Client Name: MCINTOSH PERRY

Project Reference: UNIVERSITY CENTRE

Contact Name: ATIF MOHAMED

Quote #:

Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3

PO #:

Email Address: a.mohamed@mcintoshperry.com

Telephone: 647-226-6738

Turnaround Time:

o Immediate o 1 Day
o 4 Hour o 2 Day
o 8 Hour o 3 Day
o Regular

Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 37.2-"	Aug 6/19				
2	BS 37.3-"	"				
3	BS 38.1-211-CARPET MASTIC	"				
4	BS 38.2-"	"				
5	BS 38.3-"	"				
6	BS 39.1-301A-VFT-12"X12"-MULTICOLOR	"				
7	BS 39.2-"	"				
8	BS 39.3-"	"				
9	BS 40.1-301-VFT-12"X12"-RED WITH BLACK AND PINK FLAKES	"				
10	BS 40.2-"	"				
11	BS 40.3-"	"				
12	BS 41.1-301-VFT-12"X12"-WHITE WITH ORANGE SPOTS	"				

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Method of Delivery: Walk-in

Comments:

Relinquished By (Sign): [signature]

Relinquished By (Print): ATIF M

Date/Time:

Received at Depot:

Date/Time:

Received at Lab: [signature]

Date/Time: 10/04/19 4:10pm

Verified By: [signature]

Date/Time: Oct 7/19 14:4

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

Office
19 St. Laurent Blvd.
, Ontario K1G 4J8
10-749-1947
celeparacellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE	Turnaround Time:
Contact Name: ATIF MOHAMED	Quote #:	o Immediate o 1 Day o 4 Hour o 2 Day o 8 Hour o 3 Day o Regular
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:	
Telephone: 647-226-6738	Email Address: a.mohamed@mcintoshperry.com	Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 45.2-"	Aug 20/19				
2	BS 45.3-"	"				
3	BS 46.1-324-VFT-12"X12"-PURPLE	"				
4	BS 46.2-"	"				
5	BS 46.3-"	"				
6	BS 47.1-339B-VFT-12"X12"-ORANGE W/MULTICOLOR FLAKES	"				
7	BS 47.2-"	"				
8	BS 47.3-"	Aug 20/19				
9	BS 48.1-301A-DRYWALL JOINT COMPOUND	Aug 20/19				
10	BS 48.2-210-"	Aug 19/19				
11	BS 48.3-105-"	"				
12	BS 48.4-026-"	"				

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF M.			
Date/Time:	Date/Time:	Date/Time: 10 Oct 19 4:10pm	Date/Time: Oct 7/19 1447

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

'fice
3 St. Laurent Blvd.
Ontario K1G 4J8
-749-1947
eleparacellabs.com

Chain of Custody
(Lab Use Only)

Page _13_ of _13_

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE	Turnaround Time:
Contact Name: ATIF MOHAMED	Quote #:	o Immediate o 1 Day o 4 Hour o 2 Day o 8 Hour o 3 Day **o Regular**
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:	
Telephone: 647-226-6738	Email Address: a.mohamed@mcintoshperry.com	Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 194105

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 48.5-014-PERIMETER WALL-" "	Aug 19/19				Ø
2	BS 48.6-014-PERIMETER WALL-" "	↓				Ø
3	BS 48.7-100G-AV RM-" "					X
4						Ø
5						Ø
6						Ø
7						Ø
8						Ø
9						Ø
10						Ø
11						
12						

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By: AQ
Relinquished By (Print): ATIF M.		Date/Time: August 4:10 pm	Date/Time: Oct 7/19 14:47
Date/Time:	Date/Time:		

PARACEL LABORATORIES LTD.

Paracel ID: 1941051

Office
19 St. Laurent Blvd.
, Ontario K1G 4J8
0-749-1947
cel@paracellabs.com

Chain of Custody
(Lab Use Only)

Client Name: MCINTOSH PERRY	Project Reference: UNIVERSITY CENTRE	**Turnaround Time:**
Contact Name: ATIF MOHAMED	Quote #:	o Immediate o 1 Day
Address: 6240 HIGHWAY 7, SUITE 200, WOODBRIDGE, ON, L4H 4G3	PO #:	o 4 Hour o 2 Day
	Email Address: a.mohamed@mcintoshperry.com	o 8 Hour o 3 Day
Telephone: 647-226-6738		**o Regular**
		Date Required:

ASBESTOS & MOLD ANALYSIS

Matrix: o Air o Bulk o Tape Lift o Swab o Other **Regulatory Guideline:** o ON o QC o AB o SK o Other:

Analyses: o Microscopic Mold o Culturable Mold o Bacteria GRAM o PCM Asbestos o PLM Asbestos o Chatfield Asbestos o TEM Asbestos

Paracel Order Number: 1941051

	Sample ID	Sampling Date	Volume (L)	Analysis Required	Asbestos - Bulk: Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	BS 41.2-" "	May 20/19				
2	BS 41.3-312-VFT-12"X12"-WHITE WITH ORANGE SPOTS					
3	BS 42.1-301-VFT-12"X12"-BROWN					
4	BS 42.2-" "					
5	BS 42.3-" "					
6	BS 43.1-301-VFT-12"X12"-BLUE					
7	BS 43.2-" "					
8	BS 43.3-" "					
9	BS 44.1-301-VFT-12"X12"-OLIVE GREEN W/GREY FLAKES					
10	BS 44.2-" "					
11	BS 44.3-" "					
12	BS 45.1-320A-VFT-12"X12"-GREEN WITH FLAKES					

*** If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.**

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): ATIF			
Date/Time:	Date/Time:	Date/Time: 10/04/19 4:10 pm	Date/Time: Oct 7/19 14:47

PARACEL LABORATORIES LTD.

TRUSTED.
RESPONSIVE.
RELIABLE.

300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

McIntosh Perry Limited (Concord)

6240 Hwy 7, Suite 200
Woodbridge, ON L4H 0R2
Attn: Atif Mohamed

Client PO:
Project: UCU
Custody:

Report Date: 11-Oct-2019
Order Date: 4-Oct-2019

Order #: 1941073

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1941073-01	PB-1 RM205 Brown/Bronze
1941073-02	PB-2 08A Light Blue Paint
1941073-03	PB-3 204 Grey - Door Frame
1941073-04	PB-4 08A Dark Blue
1941073-05	PB-5 0017 Off-white Pipestraight
1941073-06	PB-6 08D Yellow - Wall Paint
1941073-07	PB-7 031C Black
1941073-08	PB-8 0027A Orange
1941073-09	PB-9 014C Tan - Wall Paint
1941073-10	PB-10 014 Dark Teal Green
1941073-11	PB-11 014 Beige Paint
1941073-12	PB-12 018D Teal Paint
1941073-13	PB-13 014C Brown Paint

Approved By: Mark Foto

Mark Foto, M.Sc.
Lab Supervisor

Certificate of Analysis
Client: McIntosh Perry Limited (Concord)
Client PO:

Report Date: 11-Oct-2019
Order Date: 4-Oct-2019
Project Description: UCU

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-OES	based on MOE E3470, ICP-OES	10-Oct-19	10-Oct-19

Sample and QC Qualifiers Notes

1- GEN01 :Elevated Reporting Limits due to limited sample volume.
2- LG-CNT(Container(s) - Bottle and COC sample ID don't match -

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable
ND: Not Detected
MDL: Method Detection Limit
Source Result: Data used as source for matrix and duplicate samples
%REC: Percent recovery.
RPD: Relative percent difference.

Certificate of Analysis
Client: McIntosh Perry Limited (Concord)
Client PO:

Report Date: 11-Oct-2019
Order Date: 4-Oct-2019
Project Description: UCU

Sample Results

Lead

Matrix: Paint
Sample Date: 19-Aug-19

Paracel ID	Client ID	Units	MDL	Result
1941073-09	PB-9 014C Tan - Wall Paint	%	0.0020	0.0980
1941073-10	PB-10 014 Dark Teal Green	%	0.0020	<0.0029 [1]
1941073-11	PB-11 014 Beige Paint	%	0.0020	0.0521
1941073-12	PB-12 018D Teal Paint	%	0.0020	<0.0020
1941073-13	PB-13 014C Brown Paint	%	0.0020	<0.0049 [1]

Lead

Matrix: Paint
Sample Date: 20-Aug-19

Paracel ID	Client ID	Units	MDL	Result
1941073-01	PB-1 RM205 Brown/Bronze	%	0.0020	<0.0020
1941073-02	PB-2 08A Light Blue Paint	%	0.0020	<0.0020
1941073-03	PB-3 204 Grey - Door Frame	%	0.0020	0.0079
1941073-04	PB-4 08A Dark Blue	%	0.0020	<0.0033

Lead

Matrix: Paint
Sample Date: 21-Aug-19

Paracel ID	Client ID	Units	MDL	Result
1941073-05	PB-5 0017 Off-white Pipestraight	%	0.0020	0.229
1941073-06	PB-6 08D Yellow - Wall Paint	%	0.0020	<0.0080 [1]
1941073-07	PB-7 031C Black	%	0.0020	<0.0029 [1]
1941073-08	PB-8 0027A Orange	%	0.0020	7.73

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	**ND**	**0.0020**	**%**						
Matrix Duplicate									
Lead	**ND**	**0.0020**	**%**	**ND**			**0.0**	**30**	
Matrix Spike									
Lead	243		ug/L	2.9	96.1	70-130			

Paracel ID: 1941073

PARACEL LABORATORIES LTD.

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
1941873	

Client Name: MCINTOSH PERRY	Project Ref: UCU
Contact Name: ATIF MOHAMED	Quote #:
Address: 6240 HIGHWAY 7, SUITE 200 WOODBRIDGE, ON, L4H 4G3	PO #:
Telephone: 647-226-6738	E-mail: a.mohamed@mcintoshperry.com

Page 1 of 2

Turnaround Time

" 1 day " 3 day
" 2 day " Regular
Date Required:

Regulation 153/04

" Table 1 " Res/Park " Med/Fine
" Table 2 " Ind/Comm " Coarse
" Table 3 " Agri/Other
" Table
For RSC: " Yes " No

Other Regulation

" REG 558 " PWQO
" CCME " MISA
" SU - Sani " SU - Storm
Mun:
" Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	Required Analysis: LEAD
1	PB-1 RM20! BROWN/BRONZE	P			Aug 20/19		X
2	PB-2 08A LIGHT BLUE PAINT	P			" "		X
3	PB-3 204 GREY -DOOR FRAME	P			" "		X
4	PB-4 08A DARK BLUE	P			" "		X
5	PB-5 0017 OFFWHITE-PIPESTRAIGHT	P			Aug 21/19		X
6	PB-6 08D YELLOW-WALL PAINT	P			" "		X
7	PB-7 031C BLACK	P			" "		X
8	PB-8 0027A ORANGE	P			" "		X
9	PB-9 014C TAN-WALL PAINT	P			Aug 19/19		X
10	PB-10 014 DARK TEAL GREEN	P			" "		X

Comments: reads Pb 9 + Pb 5; reads Pb 10 + Pb 3

Relinquished By (Sign):	Received By Driver/Depot:	Received at Lab: Juneepoorn Dokmedi	Method of Delivery: Walk in
Relinquished By (Print): ATIF . M	Date/Time: Oct 4/19 16:02	Date/Time: Oct 7, 2019 10:05	Verified By:
Date/Time:	Temperature: oC	Temperature:	Date/Time: Oct 19 16:50
			pH Verified: " By: NA

Paracel ID: 1941073

PARACEL LABORATORIES LTD.

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
1941073	

Client Name: MCINTOSH PERRY	Project Ref: UCU		Page 2 of 2
Contact Name: ATIF MOHAMED	Quote #:		**Turnaround Time**
Address: 6240 HIGHWAY 7, SUITE 200	PO #:		1 day / 3 day
WOODBRIDGE, ON, L4H 4G3	E-mail: a.mohamed@mcintoshperry.com		2 day / Regular
Telephone: 647-226-6738			Date Required:

Regulation 153/04			Other Regulation	
Table 1	Res/Park	Med/Fine	REG 558	PWQO
Table 2	Ind/Comm	Coarse	CCME	MISA
Table 3	Agri/Other		SU - Sani	SU - Storm
Table			Mun:	
For RSC: Yes No			Other:	

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	Required Analysis: LEAD	
1	PB-11 014 BEIGE PAINT ✓	P			Aug 14/19		X	Reads Pb11 + Pb4
2	PB-12 018D TEAL PAINT ✓	P			" "		X	Reads Pb12 + Pb1 - 0140
3	PB-13 014C BROWN PAINT ✓	P					X	Reads Pb13 + Pb2
4								
5								
6								
7								
8								
9								
10								

Comments:

Method of Delivery: Walkin

Relinquished By (Sign): [signature]	Received By Driver/Depot: Aly	Received at Lab: Suneeparn Dobmal	Verified By: [signature]
Relinquished By (Print): ATIF. M.	Date/Time: Oct 4/19 16:02	Date/Time: OCT 07, 2019 12:07	Date/Time: 7 Oct /19 /130
Date/Time:	Temperature: oC	Temperature:	pH Verified: By: NA

APPENDIX D

Site Photographs

Photo 1: View of asbestos-containing vinyl floor tiles (12”x12”-Beige with White and Brown Flakes) observed to be in good condition in Room 100G.

Photo 2: View of asbestos-containing window caulking (Black) observed to be in good condition outside of Room 100G.

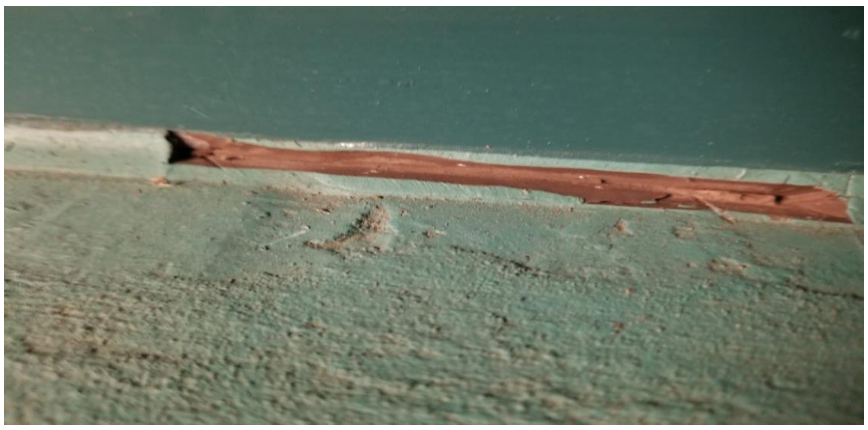


Photo 3: View of asbestos-containing wall caulking (Brown) observed to be in good condition in Room 014.

Photo 4: View of asbestos-containing parging on pipe fitting observed in Room 100G.

Photo 5: View of asbestos-containing parging observe in pipe straight in Room 0029.

Photo 6: View of asbestos-containing parging cement on pipe fitting observed to be in poor condition in Room 0033H.

Photo 7: View of asbestos-containing mechanical pipe straight insulation (AirCell) observed to be in poor condition in Room 0033B.

Photo 8: View of asbestos-containing parging on foam pipe insulation observed to be in good condition in Room 0027.

Photo 9: View of previously identified asbestos-containing vinyl floor tiles (12”x12”- Beige with Brown Spots) observed to be in good condition in the hallway of 002 and in adjacent rooms.

Photo 10: View of asbestos-containing vinyl floor tiles (12”x12”-Beige with Gray Flakes) observed to be in good condition at the A03 stairwell landing.

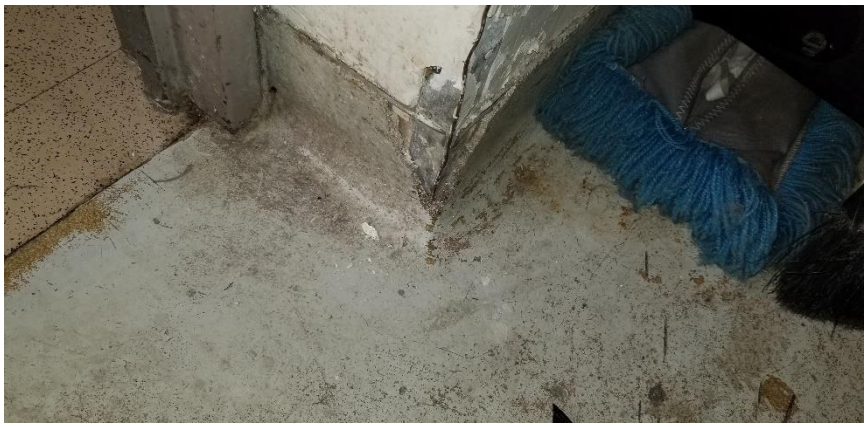


Photo 11: View of asbestos-containing cementitious floor coating observed in Room 210.

Photo 12: View of asbestos-containing suspended ceiling tiles (2’x4’-White with dots) observed to be in Room 333B.

Photo 13: View of non-asbestos containing firestop caulking (Pink) observed in Room 0027F.

Photo 14: View of non-asbestos containing ceiling texture coat observed on the concrete ceiling deck in the common area 031.

Photo 15: View of non-asbestos containing vinyl sheet flooring (Gray) observed in Room 031C.

Photo 16: View of non-asbestos containing suspended ceiling tiles (2'x2'-Deep Texture) observed in 014 Hallway.

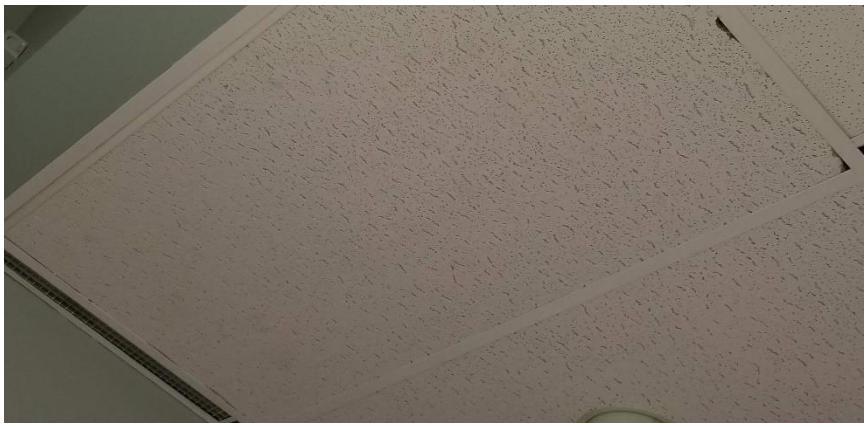


Photo 17: View of non-asbestos containing suspended ceiling tiles (2'x4'-Pinholes with Large Fissures) observed in Room 211.

Photo 18: View of non-asbestos containing vinyl floor tiles (12"x12"-Purple) observed in Room 324.

Photo 19: View of lead paint finish (Off-White) observed to be in poor condition on a mechanical pipe in Room 017.

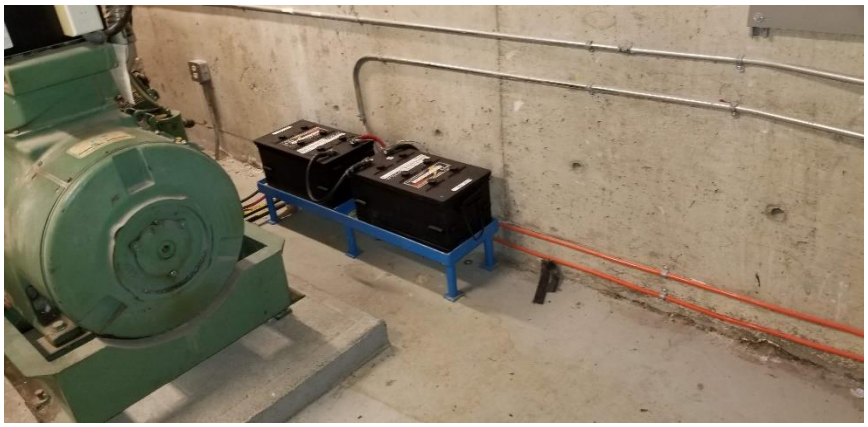


Photo 20: View of lead containing acid batteries observed to be in good condition in Room 0033H.

Photo 21: View of lead containing battery packs observed in Room 0033A.

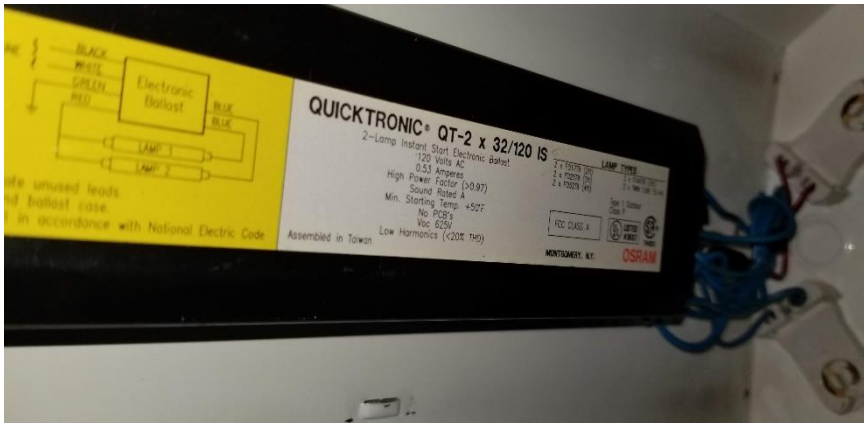


Photo 22: View of non-PCB containing light ballast observed in Room 100G.

Photo 23: View of Foster walk-in freezer containing R-12 refrigerant in area 0044.

Photo 24: View of water staining observed on concrete ceiling deck and walls in the 022B Hallway.

APPENDIX E

Asbestos-Containing Materials Checklists

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
00	Room 002	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Poor Condition	Difficult	Low	2	C	Repair or Remove Following Type 1 Abatement Procedures	
00	Room 002	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	192	SF	Manage in Place	
00	Room 002	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Poor Condition	Difficult	Low	8	SF	Manage in Place	
00	Room 003	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	97	SF	Manage in Place	
00	Room 004	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	107	SF	Manage in Place	
00	Room 005	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	293	SF	Manage in Place	
00	Room 0013	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	200	SF	Manage in Place	
00	Room 0014A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	177	SF	Manage in Place	
00	Room 0014B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	112	SF	Manage in Place	
00	Room 0018	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	85	SF	Manage in Place	
00	Room 0021	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	56	SF	Manage in Place	
00	Room 0029	Mechanical Pipestraight Insulation	Confirmed	Friable	Good Condition	Difficult	Low	9	LF	Manage in Place	
00	Room 0030	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	220	SF	Manage in Place	
00	Room 002	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	206	SF	Manage in Place	
00	Room 003	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	97	SF	Manage in Place	
00	Room 004	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	107	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
00	Room 005	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	293	SF	Manage in Place	
00	Room 006	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	282	SF	Manage in Place	
00	Room 0014A	Vinyl floor Tiles (12"x12"-Beige with White and Brown Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	180	SF	Manage in Place	
00	Room 0014B	Vinyl floor Tiles (12"x12"-Beige with White and Brown Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	108	SF	Manage in Place	
00	Room 0015	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	153	SF	Manage in Place	
00	Room 0015A	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	237	SF	Manage in Place	
00	Room 0013	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	9	C	Manage in Place	
00	Room 0014	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Poor Condition	Easy	Moderate	5	C	Remove Following Type 2 (Glovebag) Abatement Procedures	
00	Room 0016	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	6	C	Manage in Place	
00	Room 0023A	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	11	C	Manage in Place	
00	Room 0013	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Low	5	LF	Manage in Place	
00	Room 0031	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	50	C	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
00	Room 0033	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	8	C	Manage in Place	
00	Room 0033A	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	6	C	Manage in Place	
00	Room 0033D	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	26	C	Manage in Place	
00	Room 0033D	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Poor Condition	Difficult	Low	2	C	Remove Following Type 2 (Glovebag) Abatement Procedures	~2 Fittings observed with mould/water damage
00	Room 0033H	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	85	C	Manage in Place	
00	Room 003	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	23	LF	Manage in Place	
00	Room 004	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	12	LF	Manage in Place	
00	Room 0018	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	20	LF	Manage in Place	
00	Room 0023	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	225	LF	Manage in Place	
00	Room 0030	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	50	LF	Manage in Place	
00	Room 0033A	Mechanical Pipe Straight Insulation	Confirmed	Friable	Poor Condition	Difficult	Moderate	45	LF	Manage in Place	
0	Room 014	Drywall Joint Compound	Confirmed	-	Poor Condition	Easy	Moderate	1		Repair or Remove Following Type 1/2 Abatement Procedures	
0	Throughout Level	Drywall Joint Compound	Confirmed	-	Good Condition	Easy	Moderate	-	-	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
0	Room 014	Wall Mastic (Yellow)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	2400	SF	Manage in Place	
0	Room 02	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	5	C	Manage in Place	
0	Room 014B	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	13	C	Manage in Place	
0	Room 015	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	5	C	Manage in Place	
0	Room 035G	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	2	C	Manage in Place	
0	Room 02	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	60	LF	Manage in Place	
0	Room 03	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	85	LF	Manage in Place	
0	Room 08A	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	6	LF	Manage in Place	
0	Room 018	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	180	LF	Manage in Place	
0	Room 034A	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	10	LF	Manage in Place	
0	Room 034B	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	30	LF	Manage in Place	
0	Room 035G	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	11	LF	Manage in Place	
0	Room 03F	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	85	SF	Manage in Place	
0	Room 031C	Vinyl Floor Tiles (12"x12"-Beige with Gray Flakes)	Confirmed	Non-Friable	Poor Condition	Easy	Low	2	C	Repair or Remove Following Type 1 Abatement Procedures	
0	Room 034D	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	124	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
0	Room 036	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	90	SF	Manage in Place	
0	Room 038B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	410	SF	Manage in Place	
0	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Low	N/A	N/A	Manage in Place	
1	Room 100D	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	60	SF	Manage in Place	
1	Room 100D	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	6	LF	Manage in Place	
1	Room 100D	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	4	C	Manage in Place	
1	Room 100G	Vinyl floor Tiles (12"x12"-Beige with White and Brown Flakes)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	150	SF	Manage in Place	
1	Room 100G	Window Caulking (Black)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	20	LF	Manage in Place	
1	Room 100G	Wall Caulking (Brown)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	15	LF	Manage in Place	
1	Room 100G	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Easy	Moderate	1	C	Manage in Place	
1	Room 101	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	172	SF	Manage in Place	
1	Room 102	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	150	SF	Manage in Place	
1	Room 102C	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	144	SF	Manage in Place	
1	Room 102D	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	104	SF	Manage in Place	
1	Room 102B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	125	SF	Manage in Place	
1	Room 105	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	67	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
1	Room 128	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Difficult	Moderate	51	SF	Manage in Place	
1	Throughout Level	Drywall Joint Compound	Confirmed	-	Good Condition	Easy	Moderate	-	-	Manage in Place	
1	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Low	N/A	N/A	Manage in Place	
2	Room 201A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	352	SF	Manage in Place	
2	Room 201	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	392	SF	Manage in Place	
2	Room 201B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	56	SF	Manage in Place	
2	Room 202	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	400	SF	Manage in Place	
2	Room 202A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	150	SF	Manage in Place	
2	Room 202B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	156	SF	Manage in Place	
2	Room 204	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	48	SF	Manage in Place	
2	Room 210	Cementitous Floor Coating (Gray)	Confirmed	Friable	Poor Condition	Easy	Low	1	SF	Repair or Remove Following Type 1/2 Abatement Procedures	
2	Room 210	Cementitous Floor Coating (Gray)	Confirmed	Friable	Good Condition	Easy	Low	80	SF	Manage in Place	
2	Room 211J	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	64	SF	Manage in Place	
2	Room 212	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	151	SF	Manage in Place	
2	Room 215	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	45	SF	Manage in Place	
2	Room 215E	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	96	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
2	Room 215G	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	141	SF	Manage in Place	
2	Room 215H	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	160	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
2	Room 218	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	70	SF	Manage in Place	
2	Room 202A	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	2	C	Manage in Place	
2	Room 202A	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	20	LF	Manage in Place	
2	Room 211	Mechanical Pipe Straight Insulation	Confirmed	Friable	Good Condition	Difficult	Moderate	112	LF	Manage in Place	
2	Room 201A	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	95	SF	Manage in Place	
2	Room 202A	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	150	SF	Manage in Place	
2	Room 202B	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	156	SF	Manage in Place	
2	Room 203	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Poor Condition	Easy	Moderate	3	SF	Repair or Remove Following Type 1 Abatement Procedures	
2	Room 203	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	256	SF	Manage in Place	
2	Room 211	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	800	SF	Manage in Place	
2	Room 211D	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	200	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
2	Room 215A	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	100	SF	Manage in Place	
2	Room 212	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Difficult	Moderate	151	SF	Manage in Place	
2	Throughout Level	Drywall Joint Compound	Confirmed	-	Good Condition	Easy	Moderate	-	-	Manage in Place	
2	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Moderate	N/A	N/A	Manage in Place	
3	Room 300	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	556	SF	Manage in Place	
3	Room 302	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	255	SF	Manage in Place	
3	Room 306	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	424	SF	Manage in Place	
3	Room 306	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Poor Condition	Difficult	Low	24	SF	Manage in Place	
3	Room 306A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	350	SF	Manage in Place	
3	Room 306A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Poor Condition	Difficult	Low	8	SF	Manage in Place	
3	Room 306B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	210	SF	Manage in Place	
3	Room 306B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Poor Condition	Difficult	Low	8	SF	Manage in Place	
3	Room 306C	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	207	SF	Manage in Place	
3	Room 306D	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	371	SF	Manage in Place	
3	Room 306F	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	45	SF	Manage in Place	
3	Room 309	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	101	SF	Manage in Place	
3	Room 318C	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	82	SF	Manage in Place	
3	Room 320A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	98	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
3	Room 323	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	98	SF	Manage in Place	
3	Room 324	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	132	SF	Manage in Place	
3	Room 325	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Low	12	C	Manage in Place	
3	Corridor (outside Room 325)	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Poor Condition	Difficult	Low	8	SF	Manage in Place	
3	Room 326	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	204	SF	Manage in Place	
3	Room 328	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	99	SF	Manage in Place	
3	Room 330	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	95	SF	Manage in Place	
3	Room 332	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	145	SF	Manage in Place	
3	Room 333B	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	145	SF	Manage in Place	
3	Room 337	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	535	SF	Manage in Place	
3	Room 336	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	146	SF	Manage in Place	
3	Room 339A	Ceiling Tile (2'x4'-White with Dots)	Confirmed	-	Good Condition	Difficult	Low	140	SF	Manage in Place	
3	Room 321A	Mechanical Pipe Elbows/Fittings	Confirmed	Friable	Good Condition	Difficult	Moderate	8	C	Manage in Place	
3	Room 300	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	556	SF	Manage in Place	
3	Room 301A	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	855	SF	Manage in Place	
3	Room 301C	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	30	SF	Manage in Place	

Floor/Level	Location	Type of ACM	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Comments
3	Room 306A	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	424	SF	Manage in Place	
3	Room 306B	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	210	SF	Manage in Place	
3	Room 306C	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	207	SF	Manage in Place	
3	Room 306D	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	371	SF	Manage in Place	
3	Room 306F	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	45	SF	Manage in Place	
3	Room 327	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	70	SF	Manage in Place	
3	Room 330	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	95	SF	Manage in Place	
3	Room 332	Vinyl Floor Tiles (12"x12"-Beige with Brown Spots)	Confirmed	Non-Friable	Good Condition	Easy	Moderate	145	SF	Manage in Place	
3	Throughout Level	Drywall Joint Compound	Confirmed	-	Good Condition	Easy	Moderate	-	-	Manage in Place	
3	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Low	N/A	N/A	Manage in Place	
Roof	Throughout Level	Roofing Materials	Suspected	-	Good Condition	Easy	Low	-	N/A	Manage in Place	
00	Throughout Level	Drywall Joint Compound	Confirmed	-	Good Condition	Easy	Moderate	-	-	Manage in Place	
00	Throughout Level	Fire Doors	Suspected	Non-Friable	Good Condition	Easy	Low	-	-	Manage in Place	

APPENDIX F

Hazardous Containing Materials Checklists

Floor/Level	Location	Type	M	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
00	Room 0017	Lead	Paint	Off-White	Poor Condition	N/A	5	LF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Procedures as per MOL and EACO Guidelines.	
00	Room 0027A	Lead	Paint	Orange	Good Condition	N/A	24	SF	Confirmed	Manage In Place	
00	Throughout Level	Lead	Battery Pack	N/A	Good Condition	N/A	~2	C	Confirmed	Manage In Place	
00	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
00	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
00	Room 0014B	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	True Freezer	1	C	Confirmed	Manage In Place	
00	Room 0014B	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Frigidaire	1	C	Confirmed	Manage In Place	
00	Room 0042	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Foster	1	C	Confirmed	Manage In Place	R-12
00	Room 0042A	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Foster	1	C	Confirmed	Manage In Place	R-12
00	Room 0043	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Foster	1	C	Confirmed	Manage In Place	R-12
00	Room 0044	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Foster	1	C	Confirmed	Manage In Place	R-12
00	Room 0046	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Foster	1	C	Confirmed	Manage In Place	R-12
00	Room 0050	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Foster	1	C	Confirmed	Manage In Place	R-12
00	Room 0033	USTs/ASTs	Diesel Storage Tank	N/A	Good Condition	N/A	2	C	Confirmed	Manage In Place	
00	Room 0027D	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	6	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.
00	Room 0065	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	3	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.
0	Room 014C	Lead	Paint	Tan	Good Condition	N/A	300	SF	Confirmed	Manage In Place	

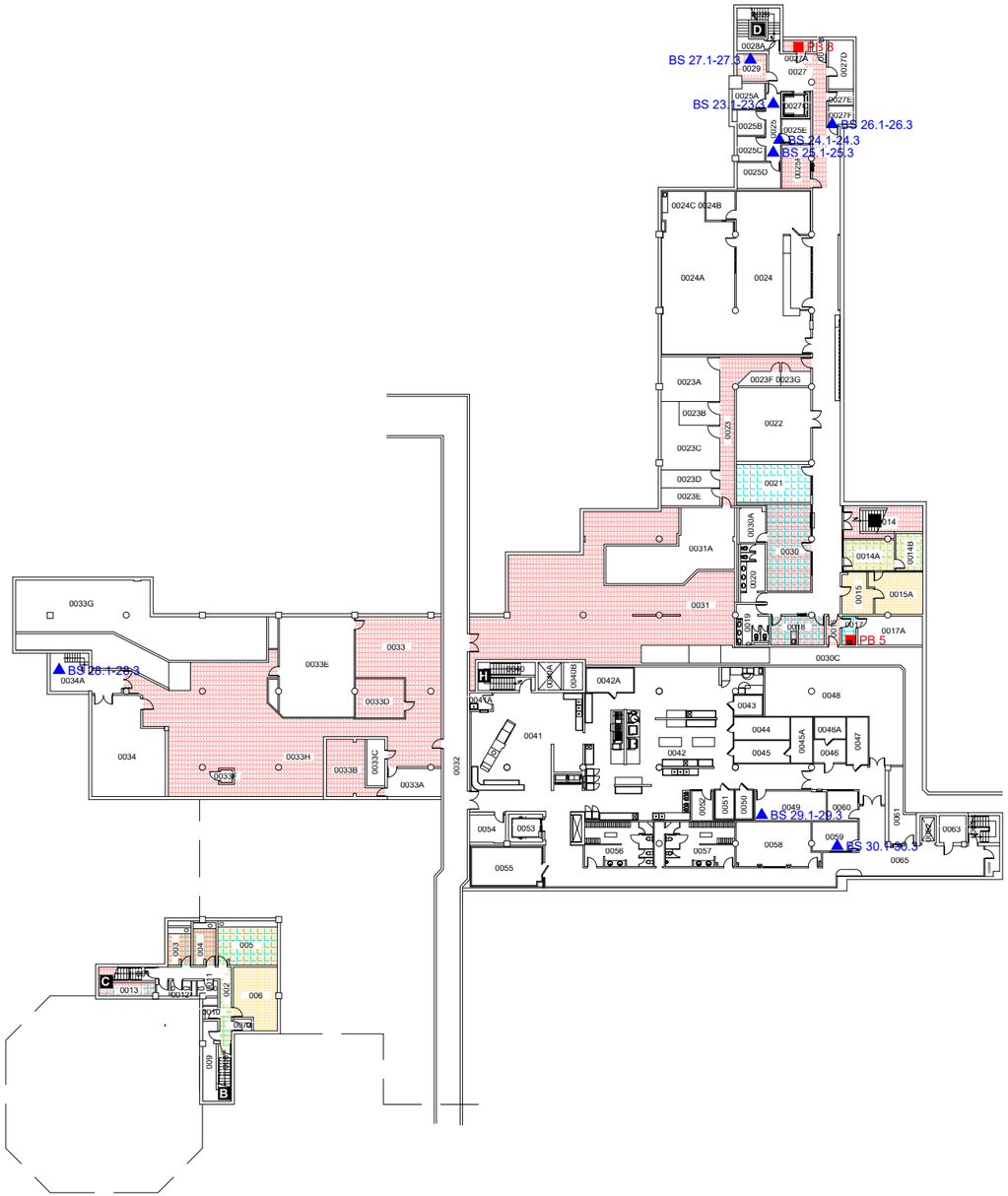
Floor/Level	Location	Type	M	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
0	Room 014	Lead	Paint	Beige	Poor Condition	N/A	6	LF	Confirmed	Paint must be removed and/or stabilized following Class 1/2 or Type 1/2 lead Procedures as per MOL and EACO Guidelines.	
0	Throughout Level	Lead	Battery Pack	N/A	Good Condition	LumaCell	-	-	Confirmed	Manage In Place	
0	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
0	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
0	Room 08A	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Danby	1	C	Confirmed	Manage In Place	
0	Room 018B	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	True Freezer	1	C	Confirmed	Manage In Place	
0	Room 021	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	True Fridge	1	C	Confirmed	Manage In Place	
0	Room 021	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Display Chillers	2	C	Confirmed	Manage In Place	
0	Room 034	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Master-Bilt	6	C	Confirmed	Manage In Place	
0	Room 035B	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Danby	1	C	Confirmed	Manage In Place	
0	Room 036	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Danby	1	C	Confirmed	Manage In Place	
0	Room 038B	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Larkin	1	C	Confirmed	Manage In Place	
0	Room 038B	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	True Freezer	1	C	Confirmed	Manage In Place	
0	Room 03	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	3	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.

Floor/Level	Location	Type	M	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
0	Room 018C	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.
0	Room 022B	Mould/ Water Damage	Concrete, Mortar, Etc.	N/A	Poor Condition	N/A	30	SF	Confirmed	Should be replaced as part of regular maintenance.	
0	Room 026	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.
0	Room 030C	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	1	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.
1	Room 128	Lead	Paint	Maroon	Good Condition	N/A	30	SF	Confirmed	Manage In Place	
1	Throughout Level	Lead	Battery Pack	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	

Floor/Level	Location	Type	M	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Comments
1	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
1	Throughout Level	Silica	Concrete, Mortar, Etc.	N/a	Good Condition	N/A	-	-	Confirmed	Manage In Place	
1	Room 124	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	True Fridge	8	C	Confirmed	Manage In Place	
1	Room 124	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	True Freezer	8	C	Confirmed	Manage In Place	
1	Room 124	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Pepsi Beverage Dispenser	2	C	Confirmed	Manage In Place	
1	Room 124	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Milk Dispenser	2	C	Confirmed	Manage In Place	
2	Throughout Level	Lead	Battery Pack	N/A	Good Condition	Various	-	-	Confirmed	Manage In Place	
2	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
2	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
2	Room 206	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	2	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.
2	Room 204	Lead	Paint	Grey	Good Condition	N/A	24	SF	Confirmed	Manage in Place	
3	Room 301	Lead	Paint	Purple	Good Condition	N/A	40	SF	Confirmed	Manage In Place	
3	Room 302	Lead	Paint	Orange	Good Condition	N/A	30	SF	Confirmed	Manage In Place	
3	Room 306D	Lead	Paint	Orange	Good Condition	N/A	20	Lf	Confirmed	Manage In Place	
3	Throughout Level	Lead	Battery Pack	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
3	Throughout Level	Mercury	Fluorescent Light Tubes	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
3	Throughout Level	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	N/A	-	-	Confirmed	Manage In Place	
3	Room 312	Ozone Depleting Substances (ODS)	Refrigerator/Freezer/Mini-Fridge/Water Cooler	N/A	Good Condition	Frigidaire	1	C	Confirmed	Manage In Place	
3	Room 324	Mould/ Water Damage	Ceiling Tiles	N/A	Poor Condition	N/A	7	C	Confirmed	Should be replaced as part of regular maintenance.	*Asbestos-containing ceiling tiles present in area. Removal should be conducted as a Type 1/2 Abatement operation.

APPENDIX G

Site Sampling & Location Plans



McINTOSH PERRY
6240 HIGHWAY 7 SUITE 200 WOODBRIDGE ON L4H 4G3
Tel: 905.856.5200 Fax: 905.695.0221
Toll Free: 1.888.348.8991 www.mcintoshperry.com

Legend:

- ▲ BS-LeadSample
- ■ Asbestos Sample
- ACM Ceiling Tile
- ACM Vinyl Floor Tile (VFT)
- ACM Floor Coating
- ACM Pipe Insulation
- ACM Caulking & Mastic

Notes:

Drywall will ACM joint compound is present throughout

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: DESIGNATED SUBSTANCE SURVEY
UNIVERSITY CENTRE, OTTAWA, ONTARIO

TITLE: DESSIN MAITRE/MASTER DRAWING
NIVEAU 00/LEVEL 00
SAMPLE LOCATION

SCALE: 1:600

DATE: NOVEMBER 22, 2019

DRAWN: M.A.

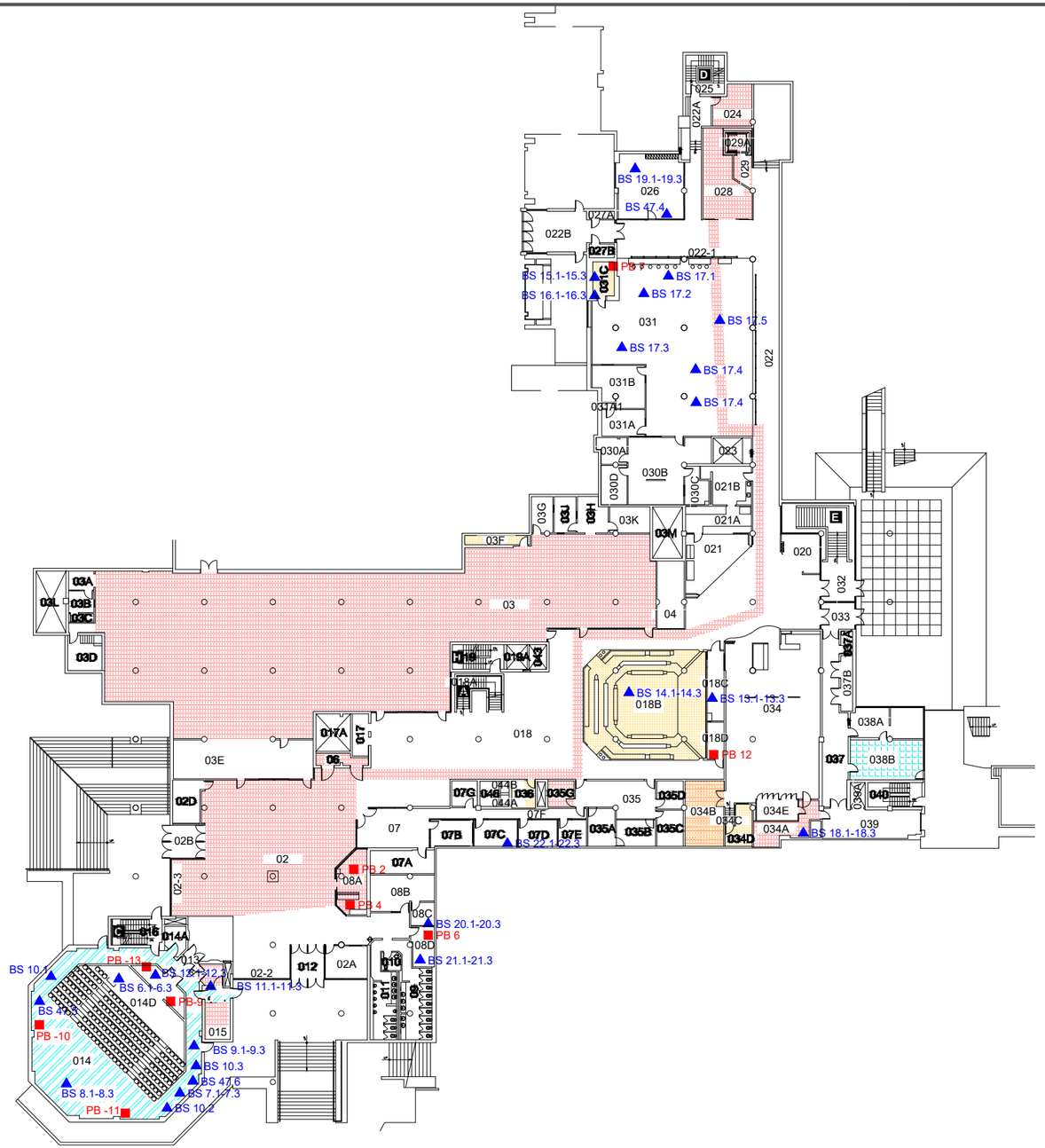
CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A-00

REV.:

W:\PROJECTS\OTTAWA\2019\HAZARDOUS - DESIGNATED MATERIALS\VZI-92001\4-HZ\PROJECTS\5_UNIVERSITY CENTER\DRAWINGS\UCU_MASTER.DWG



W:\PROJECTS\OTTAWA\2019\HAZARDOUS - DESIGNATED MATERIALS\OZI-92004-HZ\PROJECTS\5. UNIVERSITY CENTER\DRAWINGS\UCU_MASTER.DWG

McINTOSH PERRY
6240 HIGHWAY 7 SUITE 200 WOODBRIDGE ON L4H 4G3
Tel: 905.856.5200 Fax: 905.695.0221
Toll Free: 1.888.348.8991 www.mcintoshperry.com

Legend:

- ▲ BS-LeadSample
- ■ Asbestos Sample

Notes:

Drywall will ACM joint compound is present throughout

- ACM Ceiling Tile
- ACM Vinyl Floor Tile (VFT)
- ACM Floor Coating
- ACM Pipe Insulation
- ACM Caulking & Mastic

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: DESIGNATED SUBSTANCE SURVEY
UNIVERSITY CENTRE, OTTAWA, ONTARIO

TITLE: DESSIN MAITRE/MASTER DRAWING
NIVEAU 0/LEVEL 0
SAMPLE LOCATION

SCALE: 1:600

DATE: NOVEMBER 22, 2019

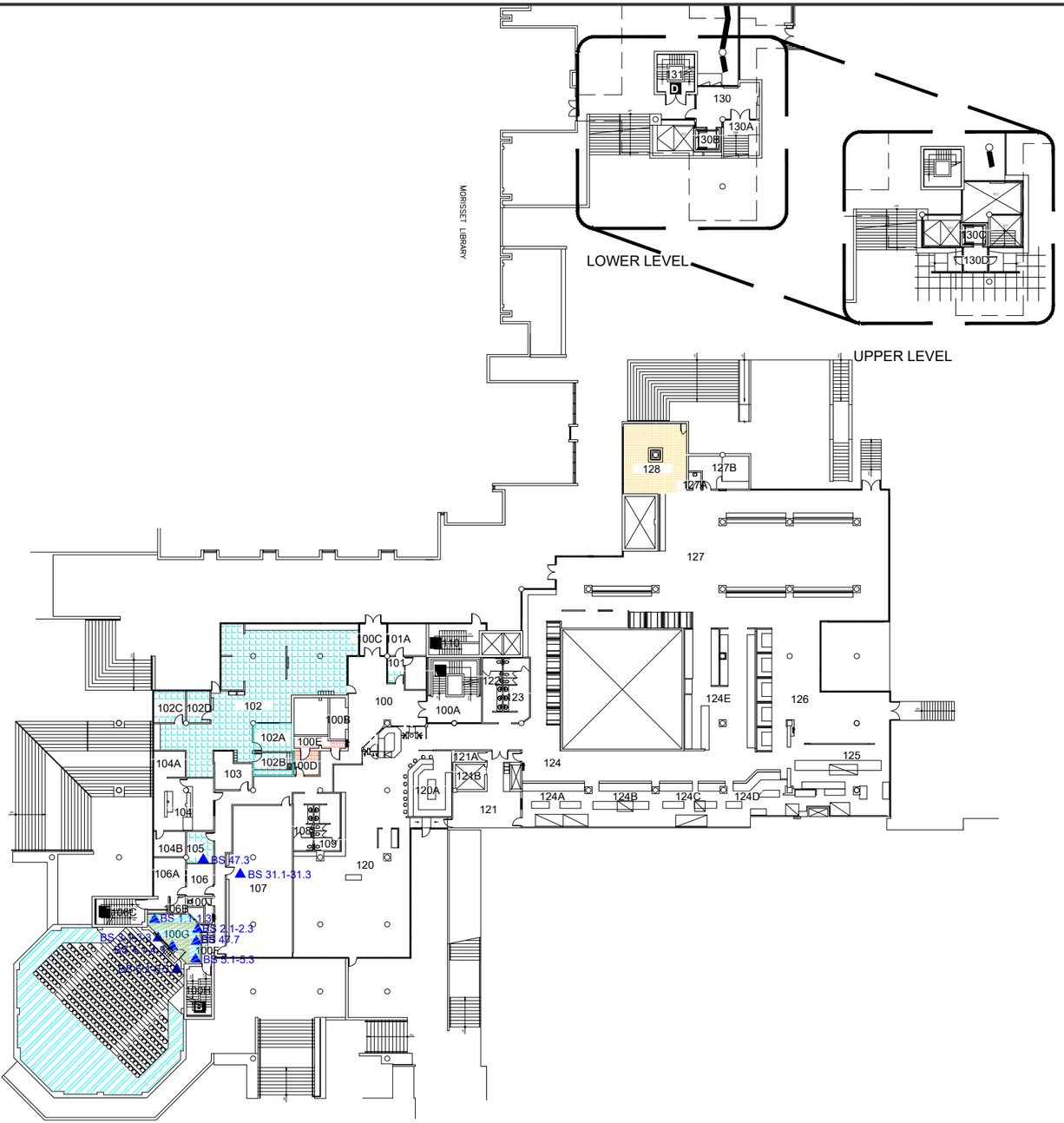
DRAWN: M.A.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A-0

REV.:



McINTOSH PERRY
6240 HIGHWAY 7 SUITE 200 WOODBRIDGE ON L4H 4G3
Tel: 905.856.5200 Fax: 905.695.0221
Toll Free: 1.888.348.8991 www.mcintoshperry.com

Legend:

- ▲ BS-LeadSample
- ■ Asbestos Sample
- ACM Ceiling Tile
- ACM Vinyl Floor Tile (VFT)
- ACM Floor Coating
- ACM Pipe Insulation
- ACM Caulking & Mastic

Notes:

Drywall will ACM joint compound is present throughout

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: DESIGNATED SUBSTANCE SURVEY
UNIVERSITY CENTRE, OTTAWA, ONTARIO

TITLE: DESSIN MAITRE/MASTER DRAWING
NIVEAU I/LEVEL I
SAMPLE LOCATION

SCALE: 1:600

DATE: NOVEMBER 22, 2019

DRAWN: M.A.

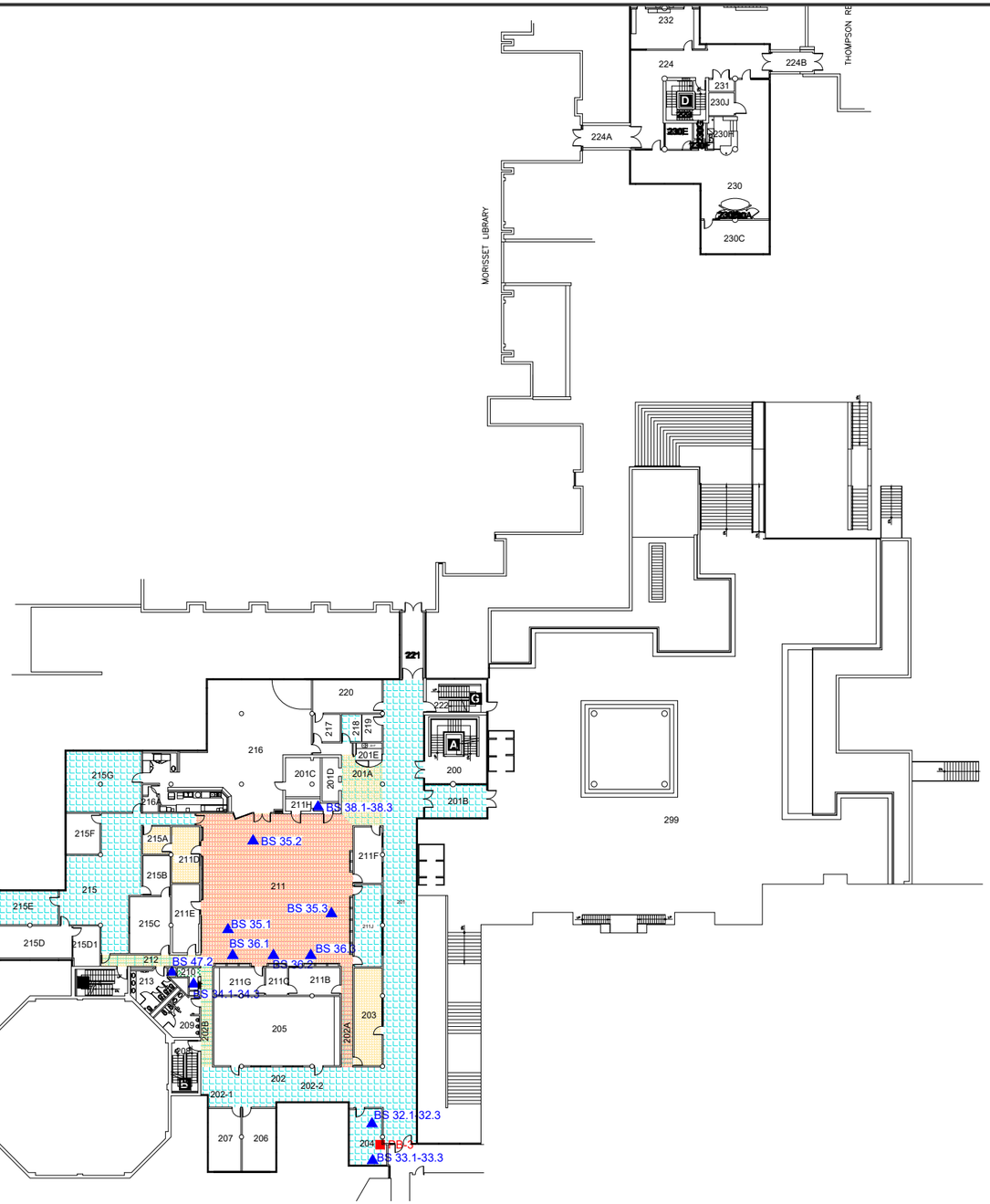
CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A-1

REV.:

W:\PROJECTS\OTTAWA\2019\HAZARDOUS - DESIGNATED MATERIALS\07I-92001A-HZ\PROJECTS\5. UNIVERSITY CENTER\DRAWINGS\UCU_MASTER.DWG



McINTOSH PERRY
6240 HIGHWAY 7 SUITE 200 WOODBRIDGE ON L4H 4G3
Tel: 905.856.5200 Fax: 905.695.0221
Toll Free: 1.888.348.8991 www.mcintoshperry.com

Legend:

- ▲ BS-LeadSample
- ■ Asbestos Sample
- ACM Ceiling Tile
- ACM Vinyl Floor Tile (VFT)
- ACM Floor Coating
- ACM Pipe Insulation
- ACM Caulking & Mastic

Notes:

Drywall will ACM joint compound is present throughout

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: DESIGNATED SUBSTANCE SURVEY
UNIVERSITY CENTRE, OTTAWA, ONTARIO

TITLE: DESSIN MAITRE/MASTER DRAWING
NIVEAU 2/LEVEL 2
SAMPLE LOCATION

SCALE: 1:600

DATE: NOVEMBER 22, 2019

DRAWN: M.A.

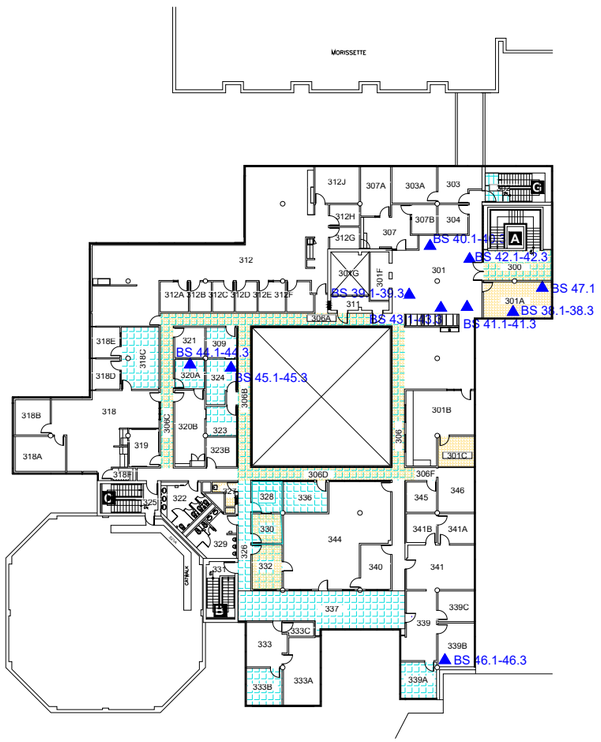
CHECKED: M.M.

DRAWING NUMBER: A-2

REV. NO.	DESCRIPTION	DATE	BY	APPD.

REV.:

W:\PROJECTS\OTTAWA\2019\HAZARDOUS - DESIGNATED MATERIALS\VZI-92001\4-HZ\PROJECTS\5_UNIVERSITY CENTER\DRAWINGS\UCU_MASTER.DWG



McINTOSH PERRY
6240 HIGHWAY 7 SUITE 200 WOODBRIDGE ON L4H 4G3
Tel: 905.856.5200 Fax: 905.695.0221
Toll Free: 1.888.348.8991 www.mcintoshperry.com

Legend:

- ▲ BS-LeadSample
- ■ Asbestos Sample
- ACM Ceiling Tile
- ACM Vinyl Floor Tile (VFT)
- ACM Floor Coating
- ACM Pipe Insulation
- ACM Caulking & Mastic

Notes:

Drywall will ACM joint compound is present throughout

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: DESIGNATED SUBSTANCE SURVEY
UNIVERSITY CENTRE, OTTAWA, ONTARIO

TITLE: DESSIN MAITRE/MASTER DRAWING
NIVEAU 3/LEVEL 3
SAMPLE LOCATION

SCALE: 1:600

DATE: NOVEMBER 22, 2019

DRAWN: M.A.

CHECKED: M.M.

DRAWING NUMBER: A-3

REV. NO.	DESCRIPTION	DATE	BY	APPD.

REV.:

W:\PROJECTS\OTTAWA\2019\HAZARDOUS - DESIGNATED MATERIALS\VZI-92001-4-HZ\PROJECTS\5. UNIVERSITY CENTER\DRAWINGS\UCU_MASTER.DWG