HAZARDOUS MATERIALS SURVEY AND 2022 REASSESSMENT THOMPSON RESIDENCE, OTTAWA, ON

Project No.: 0Z2021102HZ / CCC-230252-00

Prepared for:

University of Ottawa

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Date:

January 6, 2023

McINTOSH PERRY

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REASSESSMENT SURVEY 2022

McIntosh Perry Limited (MPL) was retained by the University of Ottawa, to complete to a hazardous materials survey of Marchand Residence located at 25, 35, and 45 University Private, Ottawa Ontario. The survey was conducted on July 8th to 22nd, 2020. The reassessment was completed on June 9th, 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 Plaster was observed to be in Good Condition throughout the subject building.
- ACM Drywall Joint Compound (DJC) was observed to be in Good and Poor Condition throughout the subject building.
- ACM Mechanical Straight Pipe Insulation was observed to be in Good Condition throughout the subject building.
- ACM Mechanical Pipe Fitting/Elbow Insulation was observed to be in Good Condition throughout the subject building.
- ACM Tank Insulation was observed to be in Good Condition in Rooms 127 and P3 of the subject building.
- ACM Vinyl Floor Tile (VFT) was observed to be in Good and Fair Condition in select locations throughout the subject building.
- ACM Texture Coat on Ceiling was observed to be in Good and Fair Condition in select locations of the subject building.
- ACM Transite (Asbestos-cement) Pipe was observed to be in Good and Poor Condition in select locations throughout the subject building.
- Water damaged materials were observed in select locations 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 Thompson Residence building located at 25, 35, and 45 University Private, Ottawa Ontario. The survey was conducted from July 8th to 22nd, 2020. The Reassessment Survey was completed on June 9th, 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
Vinyl Floor Tiles	No	Specific Areas Only	Chrysotile
Drywall Joint Compound	-	Throughout Building	Chrysotile
Transite	No	Specific Areas Only	Chrysotile
Mechanical Insulation	Yes	Specific Areas Only	Chrysotile
Plaster	Yes	Specific Areas Only	Chrysotile
Texture Coat	Yes	Specific Areas Only	Chrysotile
Roofing Materials	-	Specific Areas Only	Suspected
Concrete Block Mortar	-	Throughout Building	Suspected
Ceramic Wall/Floor Tile Grout	-	Throughout Building	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	Specific Areas Only
Silica	Throughout Building
Mercury Vapour	Specific Equipment
Ozone Depleting Substances	Specific Areas Only
Radioactive Materials	Specific Equipment
PCBs	Specific Equipment
Mould/ Water Damaged Materials	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 Canada (EACC) Mould Abatement Guidelines.

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

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

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

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

McINTOSH PERRY

January 6, 2023

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via email: joel.lajeunesse@uottawa.ca

Attention: Joel Lajeunesse, Project Manager

Re: 25, 35, and 45 University Private, Ottawa Ontario
Hazardous Materials Survey and 2022 Reassessment
McIntosh Perry Limited Reference No. 0Z2021102HZ / CCC-230252-00

1.0 INTRODUCTION

In accordance with your instructions, McIntosh Perry Limited (MPL) carried out a Hazardous Materials Survey at the Thompson Residence building located at 25, 35, and 45 University Private, Ottawa Ontario. The site is situated on the south side of University Private, between University Private and Copernicus Street. The survey of the building was conducted from July 8th to 22nd, 2020. The Reassessment Survey was completed on June 9th, 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

Thompson Residence is a twenty-three-storey building constructed in 1972 and covering approximately 132, 400 square feet. The subject building was observed to be constructed of concrete including exterior walls, roof deck and floor slabs. The interior walls were constructed of drywall. Within the subject building, ceilings were observed to be drywall, suspended ceiling tiles, or finished with a texture coat. The floors were generally vinyl floor tiles or concrete flooring.

3.0 FINDINGS & RECOMMENDATIONS

Designated Substances

3.1 Asbestos

Findings

A total of (43) bulk samples were collected during the survey and sent to an accredited laboratory for analysis. A summary of potential asbestos-containing samples collected along with the sample location, type and friability are presented in Table 1.

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

Table 1:

Asbestos Laboratory Results

Sample ID	Location	Material	Type and Content	Friability
BS 1.1	Room 012	VFT (12”x12”-Yellow)	5% Chrysotile	Non-Friable
		Mastic (Black)	None Detected	N/A
BS 1.2	Room 012	VFT (12”x12”-Yellow)	Positive Stop – Not Analyzed	Non-Friable
		Mastic (Black)	None Detected	N/A
BS 1.3	Room 012	VFT (12”x12”-Yellow)	Positive Stop – Not Analyzed	Non-Friable
BS 2.1	Room 05	VFT (12”x12”-Beige w/ White Flecks)	None Detected	N/A
BS 2.2	Room 05	VFT (12”x12”-Beige w/ White Flecks)	None Detected	N/A
BS 2.3	Room 05	VFT (12”x12”-Beige w/ White Flecks)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 3.1	Room 2018A	VFT (12”x12”-Beige w/ Black Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 3.2	Room 2018A	VFT (12”x12”-Beige w/ Black Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
BS 3.3	Room 2018A	VFT (12”x12”-Beige w/ Black Dots)	None Detected	N/A
		Mastic (Black)	None Detected	N/A
BS 4.1	Room 1118A	VFT (12”x12”-Beige w/ White/Brown Flecks)	None Detected	N/A
BS 4.2	Room 1118A	VFT (12”x12”-Beige w/ White/Brown Flecks)	None Detected	N/A
BS 4.3	Room 1118A	VFT (12”x12”-Beige w/ White/Brown Flecks)	None Detected	N/A
		Mastic (Black/Yellow)	None Detected	N/A
BS 5.1	Room 518A	VFT (12”x12” Beige)	5% Chrysotile	Non-Friable
BS 5.2	Room 918A	VFT (12”x12” Beige)	Positive Stop – Not Analyzed	Non-Friable
BS 5.3	Room 818A	VFT (12”x12” Beige)	Positive Stop – Not Analyzed	Non-Friable
BS 6.1	Room 312	VFT (12”x12”-Grey Marble)	None Detected	N/A
		Mastic (Grey/Yellow)	None Detected	N/A
BS 6.2	Room 707	VFT (12”x12”-Grey Marble)	None Detected	N/A
BS 6.3	Room 804	VFT (12”x12”-Grey Marble)	None Detected	N/A
BS 7.1	Room 1920A	VFT (12”x12”-Purple/Brown Marble)	None Detected	N/A
		Mastic (Grey/Yellow)	None Detected	N/A
BS 7.2	Room 1011	VFT (12”x12”-Purple/Brown Marble)	None Detected	N/A
		Mastic (Grey/Yellow)	None Detected	N/A
		Leveler	None Detected	N/A
BS 7.3	Room 403	VFT (12”x12”-Purple/Brown Marble)	None Detected	N/A
BS 8.1	Room 108A	Drywall Joint Compound (White)	None Detected	N/A
BS 8.2	Room 320A	Drywall Joint Compound (White)	None Detected	N/A
		Drywall Joint Compound (Tan)	3% Chrysotile	-
BS 8.3	Room 628	Drywall Joint Compound (White)	None Detected	N/A
BS 8.4	Room 818A	Drywall Joint Compound (White)	None Detected	N/A
		Drywall Joint Compound (Tan)	Positive Stop – Not Analyzed	-
BS 8.5	Room 1928	Drywall Joint Compound (White)	None Detected	N/A
		Drywall Joint Compound (Tan)	Positive Stop – Not Analyzed	-
BS 8.6	Room 2028	Drywall Joint Compound (White)	None Detected	N/A
BS 8.7	Room 055	Drywall Joint Compound (White)	None Detected	N/A
BS 9.1	Room 1327	Fire Stop (Red with Black Speckle)	None Detected	N/A
BS 9.2	Room 1427	Fire Stop (Red with Black Speckle)	None Detected	N/A
BS 9.3	Room 1527	Fire Stop (Red with Black Speckle)	None Detected	N/A
BS 10.1	Room 1627	Caulking (Blue)	None Detected	N/A

Sample ID	Location	Material	Type and Content	Friability
		Drywall Joint Compound (Tan)	2% Chrysotile	-
BS 10.2	Room 1527	Caulking (Blue)	None Detected	N/A
BS 10.3	Room 1427	Caulking (Blue)	None Detected	N/A
BS 11.1	Room 1627	Fire Stop (Red)	None Detected	N/A
BS 11.2	Room 1427	Fire Stop (Red)	None Detected	N/A
BS 11.3	Room 1327	Fire Stop (Red)	None Detected	N/A
BS 12.1	Room 126L	VFT (12”x12”-Blue w/ Blue/White Flecks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 12.2	Room 126L	VFT (12”x12”-Blue w/ Blue/White Flecks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 12.3	Room 126L	VFT (12”x12”-Blue w/ Blue/White Flecks)	None Detected	N/A
		Mastic (Yellow)	None Detected	N/A
BS 13.1	Room 126K	VFT (12”x12”-Blue)	None Detected	N/A
		Mastic (Brown)	None Detected	N/A
BS 13.2	Room 126B	VFT (12”x12”-Blue)	None Detected	N/A
		Mastic (Brown)	None Detected	N/A
BS 13.3	Room 126L	VFT (12”x12”-Blue)	None Detected	N/A
		Mastic (Brown)	None Detected	N/A
BS 14.1	Room 2021	Fire Stop (Grey)	None Detected	N/A
BS 14.2	Room 2021	Fire Stop (Grey)	None Detected	N/A
BS 14.3	Room 2021	Fire Stop (Grey)	None Detected	N/A
BS 15.1	Hallway-20th Floor	SCT (2’x2’ – Small Pinholes)	None Detected	N/A
BS 15.2	Hallway-20th Floor	SCT (2’x2’ – Small Pinholes)	None Detected	N/A
BS 15.3	Hallway-20th Floor	SCT (2’x2’ – Small Pinholes)	None Detected	N/A
BS 16.1	Hallway-20th Floor	Fire Stop (Red)	None Detected	N/A
BS 16.2	Hallway-20th Floor	Fire Stop (Red)	None Detected	N/A
BS 16.3	Hallway-20th Floor	Fire Stop (Red)	None Detected	N/A
BS 17.1	Hallway-20th Floor	Drywall Joint Compound (Grey)	None Detected	N/A
		Drywall Joint Compound (Grey)	None Detected	N/A
BS 17.2	Hallway-19th floor	Drywall Joint Compound (Grey)	None Detected	N/A
		Drywall Joint Compound (Grey)	None Detected	N/A
BS 17.3	Hallway 15th floor	Drywall Joint Compound (Grey)	None Detected	N/A
BS 17.4	Room 2002	Drywall Joint Compound (White)	None Detected	N/A
		Drywall Joint Compound (White)	None Detected	N/A

N/A – Not Applicable
VFT – Vinyl Floor Tiles;
SCT- Suspended Ceiling Tiles;
Stop Positive – Material considered being asbestos-containing as per O. Reg. 278/05.

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

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

3.1.1 Sprayed Fireproofing

No sprayed fireproofing was observed in the subject building.

3.1.2 Mechanical Pipe Insulation

3.1.2.1 Mechanical Pipe Straight Insulation

Previously identified mechanical pipe straight insulation was observed throughout the subject building. The laboratory analytical results indicate that this material contains 40-65% Chrysotile asbestos. This material is considered to be friable and was observed in good condition.

3.1.2.2 Mechanical Piping Elbows/Fittings Insulation

Previously identified mechanical pipe elbows/fittings insulation was observed throughout the subject building. The laboratory analytical results indicate that this material contains 40-65% Chrysotile asbestos. This material is considered to be friable and was observed in good and fair 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

No HVAC duct insulation was not observed in the subject building.

3.1.2.5 Other Mechanical Insulation

Previously identified tank insulation was observed in Rooms 127 and P3. The laboratory analytical results indicate that this material contains 40-65% Chrysotile asbestos. This material is considered to be friable and was observed in good condition.

3.1.3 Flexible Duct Connector

No flexible duct connectors were observed in the subject building.

3.1.4 Heat Shield or Heat Shield Insulation

No heat shield insulation was observed in the subject building.

3.1.5 Texture Finishes

Previously identified ceiling texture coat was observed on the ceilings throughout the building. The laboratory analytical results of ceiling texture samples collected throughout the building indicate that this material

contains 5% Chrysotile asbestos. Since texture coat is a homogeneous material, all areas must be treated as asbestos-containing unless additional bulk sampling and analysis proves otherwise. Texture coat is encapsulated by ceiling tiles in some locations and is exposed in others. This material was observed in good and fair condition during the 2022 Reassessment.

3.1.6 Plaster

Previously identified plaster was observed on the ceilings throughout the building. The laboratory analytical results of plaster samples collected throughout the building indicate that this material contains 0.5% Chrysotile asbestos. Since plaster is a homogeneous material, all areas must be treated as asbestos-containing unless additional bulk sampling and analysis proves otherwise. This material was observed in good condition.

3.1.7 Grey Sheeting

No grey sheeting was observed throughout the subject building.

3.1.8 Drywall Joint Compound

Drywall joint compound was observed throughout the building. The laboratory analytical results of drywall joint compound samples collected throughout the building indicate that this material contains 3% 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 in good and poor condition during the 2022 Reassessment.

3.1.9 Ceiling Tiles

Suspended ceiling tiles were observed in the subject building. The laboratory analytical results of ceiling tile samples collected indicate that this material does not contain asbestos.

3.1.10 Vinyl Floor Tiles

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

- Vinyl floor tiles (12”x12” Yellow) were observed in Room 012. The laboratory analytical results of vinyl floor tile samples collected indicate that this material contains 5% Chrysotile asbestos. This material is considered to be non-friable and was observed in good condition. The associated mastic (Black) was found not to contain asbestos.

- Vinyl floor tiles (12”x12” Beige) were observed in the residence kitchens throughout the subject building. The laboratory analytical results of vinyl floor tile samples collected from Rooms 518A, 918A and 818A indicate that this material contains 5% Chrysotile asbestos. This material is considered to be non-friable and was observed in good condition.

- Previously identified asbestos-containing vinyl floor tiles (12”x12” - Gold) were observed throughout the subject building. This material contains 13.5% Chrysotile asbestos and is considered to be non-friable. This material was observed to be in good condition.

- Previously identified asbestos-containing vinyl floor tiles (12”x12” - Beige) were observed throughout the subject building. This material contains 13.9% Chrysotile asbestos and is considered to be non-friable. This material was observed to be in good condition.

- Vinyl floor tiles (12”x12” Beige with White Flecks) were observed in Room 05. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also found not to contain asbestos.

- Vinyl floor tiles (12”x12” Beige with Black Dots) were observed in Room 2018A. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material does not contain asbestos. The associated mastic (Black) was also found not to contain asbestos.

- Vinyl floor tiles (12”x12” Beige with White/Brown Flecks) were observed in Room 1118A. The laboratory analytical results of the vinyl floor tile samples indicate that this material does not contain asbestos. The associated mastic (Black) was also found not to contain asbestos.

- Vinyl floor tiles (12”x12” Grey Marble) were observed throughout the building. The laboratory analytical results of the vinyl floor tile samples collected from Rooms 312, 707 and 804 indicate that this material does not contain asbestos. The associated mastic (Grey/Yellow) was also found not to contain asbestos.

- Vinyl floor tiles (12”x12” Purple/Brown Marble) were observed throughout the building. The laboratory analytical results of the vinyl floor tile samples collected from Rooms 1920A, 1011, and 403 indicate that this material does not contain asbestos. The associated mastic (Grey/Yellow) was also found not to contain asbestos.

- Vinyl floor tiles (12”x12” Blue with Blue/White Flecks) were observed in Room 126L. The laboratory analytical results of the vinyl floor tile samples collected indicate that this material does not contain asbestos. The associated mastic (yellow) was also found not to contain asbestos.

- Vinyl floor tiles (12”x12” Blue with Blue/White Flecks) were observed in Room 126K, 126B and 126L. The laboratory analytical results of the vinyl floor tile samples indicate that this material does not contain asbestos. The associated mastic (brown) was also found not to contain asbestos.

3.1.11 Vinyl Sheet Flooring

No vinyl sheet flooring was observed in the subject building.

3.1.12 Brick Mortar

No brick mortar was observed in the subject building.

3.1.13 Concrete Block Mortar

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

3.1.14 Ceramic Wall / Floor Tile Grout

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

3.1.15 Transite (Asbestos Cement)

Transite rainwater leaders were observed throughout the subject building. To avoid possible damage, no bulk samples of the transite piping were collected. However, this material is known to contain asbestos. This material is considered to be non-friable and was observed in good and poor condition in select locations during the 2022 Reassessment.

3.1.16 Caulking

Caulking (blue) was observed and sampled from Rooms 1627, 1527, and 1427. Laboratory analytical results of the caulking samples collected indicate that this material does not contain asbestos.

3.1.17 Fire Stop

Several different types of fire stop were observed and sampled within the building as follows:

- Fire stop (Red with Black Speckle) was observed in Room 1327, 1427 and 1527 in the subject building. The laboratory analytical results of the fire stop samples collected indicate that this material does not contain asbestos.
- Fire stop (Red) was observed in Room 1327, 1427 and 1627 in the subject building. The laboratory analytical results of the fire stop samples collected indicate that this material does not contain asbestos.
- Fire stop (Grey) was observed in Room 2021 in the subject building. The laboratory analytical results of the fire stop samples collected indicate that this material does not contain asbestos.

- Fire stop (Red) was observed in the hallway on the 20th floor of the subject building. The laboratory analytical results of the fire stop samples collected indicate that this material does not contain asbestos.

3.1.18 Cementitious Coating

No cementitious coating finishes were observed in the subject building.

3.1.19 Concrete

No concrete finishes were observed in the subject building.

3.1.20 Tar

No tar was observed in the subject building.

3.1.21 Glazing

No glazing materials suspected of containing asbestos were observed in the subject building.

3.1.22 Fire Doors

No fire doors were observed in the subject building.

3.1.23 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, quantities (where applicable), and recommended actions;

- Prior to renovation/demolition of materials which are assumed to be asbestos-containing (suspect materials which were not sampled, i.e., roofing materials, concrete block mortar), 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 four (4) 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 Sampling Locations and Laboratory Results

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
PB1	718A	Wall Paint	White	<0.0080
PB2	619	Wall Paint	Light Grey	<0.020

Sample I.D.	Location	Material	Colour	Lead Concentration Weight by Conc. (%)
PB3	428	Door Paint	Beige	<0.015
PB4	1102	Door Paint	Dark Grey	<0.048
Previously Identified Lead Paint Finishes				
THN-20-LBP-081607-01	2003	Door Paint	Beige	0.13
THN-20-LBP-081607-02	2003	Doorframe Paint	Brown	0.57
THN-20-LBP-081607-03	2004	Wall Paint	White	<0.01
THN-20-LBP-081607-04	2024	Door Paint/Door Frame Paint	Blue	0.05
THN-20-LBP-081607-05	1610	Door Paint	Beige	0.02
THN-20-LBP-081607-06	1426	Framing Paint	Brown	<0.02
THN-20-LBP-081607-07	1203	Wall Paint	White	<0.02
THN-20-LBP-081607-08	P3	Door Paint	Green	0.05
THN-20-LBP-081607-09	P4	Floor Paint	Grey	<0.01
THN-20-LBP-081607-10	Roof	Exterior Wall Paint	Grey	<0.01
THN-20-LBP-081607-11	04	Door Paint	Light Green	0.14

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

The paint finishes highlighted in pink in the above table are considered lead-containing paints or surface coatings with concentrations greater than 0.1% lead by weight. These paint finishes were observed to be in good 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 samples 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 good condition and do not pose a risk to workers or occupants can be managed in place.

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

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

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

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

- 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 did not identify pressure gauges or float switches throughout the subject building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, 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. Silica (including free crystalline silica) may also be a component of concrete surfaces noted in the building.

Recommendations

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

Precautions should be taken as required during major renovations and demolition projects on concrete (i.e. coring through concrete slabs, demolition of masonry, etc.) to ensure that workers' exposure levels to airborne silica does not exceed 0.05 mg/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 fluorescent lights. These lamps may contain PCB-containing light ballasts. These ballasts were not investigated during the survey as they could not be readily or safely disassembled.

3.5.2 Transformers

MPL did not observe any PCBs containing electrical transformers within the subject building.

Recommendations

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

Prior to any 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.

No other equipment containing ODSs or other halocarbons was observed in the subject building.

Recommendations

Please refer to Appendix F – Hazardous Materials Checklist for equipment conditions, 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 observed Kidde brand smoke detectors with the Model number i9070CA, which contains small quantities of radioactive material.

Recommendations

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

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

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

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

Findings

No USTs and ASTs were present within the subject building.

Recommendations

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

3.9 Mould

Findings

3.9.1 Mould

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

3.9.2 Water Damage

MPL identified select areas throughout the subject building, where materials were affected by water damage.

Recommendations

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

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

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

Lauren Hamilton, B.Eng.
Project Technician
Hazardous Materials/ Environmental Health & Safety

John Tufts, B.Sc.
Project 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 CAELA accredited independent laboratory for analysis. Laboratory Certificate of Analysis are attached in Appendix C.

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

Investigated Areas

The survey included all accessible areas and ceiling space within 45 University Private as required under our scope of work. No destructive investigations were performed as part of this survey. Photographs of the areas investigated can be found in Appendix D.

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

Sampling and Assessment Methodologies

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

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

- Designated Substance Survey by Conestoga-Rovers & Associates (dated February 2008, reference # 045870(87));
- Ceiling Sampling Report, Thompson Residence by EHS Partnership Ltd (dated August 16, 2013 reference # 04-0033-13-044);
- Potential Asbestos Sampling Report- Various Materials Thompson Residence- Basement, 1st & 2nd Floor by EHS Partnership Ltd (dated October 4, 2012 reference # 04-0033-12-034);

- Asbestos Abatement- Vinyl Floor Tile Removal- Thompson Residence, First & Second Floors by EHS Partnership Ltd (dated November 27, 2012 reference # 04-0033-12-035).

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.		Less than 90 square metres	3

	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	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 EMSL Canada Inc. (EMSL), an independent laboratory. EMSL is an independent laboratory accredited by National Institute of Standards and Technology/National Voluntary Laboratory Accreditation (NIST/NVLAP) (Lab Code #200877-0).

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

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

Evaluation of ACMs Based on Condition

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

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

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

Lead

Background Information on Lead

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

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

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

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

Exposure to lead-containing materials is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act. Care must be taken to prevent lead-containing particles from becoming airborne during the disturbance of lead-containing surfaces (i.e., during renovation or demolition projects). All lead abatement work must follow procedures outlined in the 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

EMSL Canada Inc.

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

EMSL Canada Order 672001215
Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Phone: (613) 836-2184
Fax:
Collected:
Received: 7/27/2020
Analyzed: 8/04/2020

Proj: University of Ottawa 0Z2-021101 (Thompson Residence) (Ottawa DSS)

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

Client Sample ID: 1.1-VFT **Lab Sample ID:** 672001215-0001
Sample Description: Thompson Residence/VFT - yellow (012)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Yellow	0.0%	95.0%	5% Chrysotile	

Client Sample ID: 1.1-Mastic **Lab Sample ID:** 672001215-0001A
Sample Description: Thompson Residence/VFT - yellow (012)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Black	0.0%	100.0%	None Detected	

Client Sample ID: 1.2-VFT **Lab Sample ID:** 672001215-0002
Sample Description: Thompson Residence/VFT - yellow (012)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020				Positive Stop (Not Analyzed)	

Client Sample ID: 1.2-Mastic **Lab Sample ID:** 672001215-0002A
Sample Description: Thompson Residence/VFT - yellow (012)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Black	0.0%	100.0%	None Detected	

Client Sample ID: 1.3 **Lab Sample ID:** 672001215-0003
Sample Description: Thompson Residence/VFT - yellow (012)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020				Positive Stop (Not Analyzed)	

Client Sample ID: 2.1 **Lab Sample ID:** 672001215-0004
Sample Description: Thompson Residence/VFT - beige with white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	White/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 2.2 **Lab Sample ID:** 672001215-0005
Sample Description: Thompson Residence/VFT - beige with white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	White/Beige	0.0%	100.0%	None Detected	

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EMSL Canada Order 672001215
Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Client Sample ID: 2.3-VFT **Lab Sample ID:** **672001215-0006**
Sample Description: Thompson Residence/VFT - beige with white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	White/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 2.3-Mastic **Lab Sample ID:** **672001215-0006A**
Sample Description: Thompson Residence/VFT - beige with white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Black	0.0%	100.0%	None Detected	Limited sample material.

Client Sample ID: 3.1-VFT **Lab Sample ID:** **672001215-0007**
Sample Description: Thompson Residence/VFT - beige with black dots

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 3.1-Mastic **Lab Sample ID:** **672001215-0007A**
Sample Description: Thompson Residence/VFT - beige with black dots

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Black	0.0%	100.0%	None Detected	

Client Sample ID: 3.2-VFT **Lab Sample ID:** **672001215-0008**
Sample Description: Thompson Residence/VFT - beige with black dots

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 3.2-Mastic **Lab Sample ID:** **672001215-0008A**
Sample Description: Thompson Residence/VFT - beige with black dots

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 3.3-VFT **Lab Sample ID:** **672001215-0009**
Sample Description: Thompson Residence/VFT - beige with black dots

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 3.3-Mastic **Lab Sample ID:** **672001215-0009A**
Sample Description: Thompson Residence/VFT - beige with black dots

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/03/2020	Yellow	0.0%	100.0%	None Detected	

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

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

Client Sample ID: 4.1 ***Lab Sample ID:*** **672001215-0010**

Sample Description: Thompson Residence/VFT - beige with white/brown flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 4.2 ***Lab Sample ID:*** **672001215-0011**

Sample Description: Thompson Residence/VFT - beige with white/brown flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Yellow/Beige	0.0%	100.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 4.3-VFT ***Lab Sample ID:*** **672001215-0012**

Sample Description: Thompson Residence/VFT - beige with white/brown flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 4.3-Mastic ***Lab Sample ID:*** **672001215-0012A**

Sample Description: Thompson Residence/VFT - beige with white/brown flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Black/Yellow	0.0%	100.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 5.1 ***Lab Sample ID:*** **672001215-0013**

Sample Description: Thompson Residence/VFT - beige

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Black/Yellow	0.0%	95.0%	**5% Chrysotile**	Result includes a small amount of inseparable attached material

Client Sample ID: 5.2 ***Lab Sample ID:*** **672001215-0014**

Sample Description: Thompson Residence/VFT - beige

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020			Positive Stop (Not Analyzed)		

Client Sample ID: 5.3 ***Lab Sample ID:*** **672001215-0015**

Sample Description: Thompson Residence/VFT - beige

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020			Positive Stop (Not Analyzed)		

Client Sample ID: 6.1-VFT ***Lab Sample ID:*** **672001215-0016**

Sample Description: Thompson Residence/VFT - grey marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Gray	20.0%	80.0%	None Detected	Result includes a small amount of inseparable attached material

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

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

Client Sample ID: 6.1-Mastic ***Lab Sample ID:*** **672001215-0016A**

Sample Description: Thompson Residence/VFT - grey marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Gray/Yellow	0.0%	100.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 6.2 ***Lab Sample ID:*** **672001215-0017**

Sample Description: Thompson Residence/VFT - grey marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Gray/Yellow	20.0%	80.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 6.3 ***Lab Sample ID:*** **672001215-0018**

Sample Description: Thompson Residence/VFT - grey marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Gray/Yellow	20.0%	80.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 7.1-VFT ***Lab Sample ID:*** **672001215-0019**

Sample Description: Thompson Residence/VFT - purple/brown marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Brown/Purple	20.0%	80.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 7.1-Mastic ***Lab Sample ID:*** **672001215-0019A**

Sample Description: Thompson Residence/VFT - purple/brown marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Gray/Yellow	0.0%	100.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 7.2-VFT ***Lab Sample ID:*** **672001215-0020**

Sample Description: Thompson Residence/VFT - purple/brown marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Brown/Purple	20.0%	80.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 7.2-Mastic ***Lab Sample ID:*** **672001215-0020A**

Sample Description: Thompson Residence/VFT - purple/brown marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Yellow	0.0%	100.0%	None Detected	

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Project ID: Ottawa DSS

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

Client Sample ID: 7.2-Leveler **Lab Sample ID:** **672001215-0020B**
Sample Description: Thompson Residence/VFT - purple/brown marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 7.3 **Lab Sample ID:** **672001215-0021**
Sample Description: Thompson Residence/VFT - purple/brown marble

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Brown/Purple	20.0%	80.0%	None Detected	Result includes a small amount of inseparable attached material

Client Sample ID: 8.1 **Lab Sample ID:** **672001215-0022**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: 8.2-Joint Compound **Lab Sample ID:** **672001215-0023**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: 8.2-Joint Compound 2 **Lab Sample ID:** **672001215-0023A**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	Tan	0.0%	97.0%	**3% Chrysotile**	

Client Sample ID: 8.3 **Lab Sample ID:** **672001215-0024**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: 8.4-Joint Compound **Lab Sample ID:** **672001215-0025**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: 8.4-Joint Compound 2 **Lab Sample ID:** **672001215-0025A**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020				Positive Stop (Not Analyzed)	

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Project ID: Ottawa DSS

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

Client Sample ID: 8.5-Joint Compound **Lab Sample ID:** **672001215-0026**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: 8.5-Joint Compound 2 **Lab Sample ID:** **672001215-0026A**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020				Positive Stop (Not Analyzed)	

Client Sample ID: 8.6 **Lab Sample ID:** **672001215-0027**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Client Sample ID: 8.7 **Lab Sample ID:** **672001215-0028**
Sample Description: Thompson Residence/Drywall joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/04/2020	White	0.0%	100.0%	None Detected	

Analyst(s):

Jose Sanchez PLM (36)

Reviewed and approved by:

Simon Parent, Laboratory Manager
or Other Approved Signatory

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

Samples analyzed by EMSL Analytical, Inc. Rochester, NY

Initial report from: 08/04/202015:29:25

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EMSL Canada Order 672001259
Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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Phone: (613) 836-2184
Fax:
Collected:
Received: 7/31/2020
Analyzed: 8/10/2020

Proj: University of Ottawa 0Z2-021101 (Thompson Residence) (Ottawa DSS)

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

Client Sample ID: 9.1 ***Lab Sample ID:*** **672001259-0001**
Sample Description: Thompson/Red firestop with black speckle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Red	5.0%	95.0%	None Detected	

Client Sample ID: 9.2 ***Lab Sample ID:*** **672001259-0002**
Sample Description: Thompson/Red firestop with black speckle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Red	5.0%	95.0%	None Detected	

Client Sample ID: 9.3 ***Lab Sample ID:*** **672001259-0003**
Sample Description: Thompson/Red firestop with black speckle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Red	5.0%	95.0%	None Detected	

Client Sample ID: 10.1-Caulking ***Lab Sample ID:*** **672001259-0004**
Sample Description: Thompson/Blue mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 10.1-Joint Compound ***Lab Sample ID:*** **672001259-0004A**
Sample Description: Thompson/Blue mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Tan	0.0%	98.0%	**2% Chrysotile**	

Client Sample ID: 10.2 ***Lab Sample ID:*** **672001259-0005**
Sample Description: Thompson/Blue mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 10.3 ***Lab Sample ID:*** **672001259-0006**
Sample Description: Thompson/Blue mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

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Project ID: Ottawa DSS

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

Client Sample ID: 11.1 ***Lab Sample ID:*** **672001259-0007**
Sample Description: Thompson/Red (solid) firestop

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Red	0.0%	100.0%	None Detected	

Client Sample ID: 11.2 ***Lab Sample ID:*** **672001259-0008**
Sample Description: Thompson/Red (solid) firestop

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Red	0.0%	100.0%	None Detected	

Client Sample ID: 11.3 ***Lab Sample ID:*** **672001259-0009**
Sample Description: Thompson/Red (solid) firestop

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Red	0.0%	100.0%	None Detected	

Client Sample ID: 12.1-Vinyl Floor Tile ***Lab Sample ID:*** **672001259-0010**
Sample Description: Thompson/VFT - blue with blue/white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 12.1-Mastic ***Lab Sample ID:*** **672001259-0010A**
Sample Description: Thompson/VFT - blue with blue/white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 12.2-Vinyl Floor Tile ***Lab Sample ID:*** **672001259-0011**
Sample Description: Thompson/VFT - blue with blue/white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 12.2-Mastic ***Lab Sample ID:*** **672001259-0011A**
Sample Description: Thompson/VFT - blue with blue/white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 12.3-Vinyl Floor Tile ***Lab Sample ID:*** **672001259-0012**
Sample Description: Thompson/VFT - blue with blue/white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

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

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

Client Sample ID: 12.3-Mastic **Lab Sample ID:** **672001259-0012A**
Sample Description: Thompson/VFT - blue with blue/white flecks

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 13.1-Vinyl Floor Tile **Lab Sample ID:** **672001259-0013**
Sample Description: Thompson/VFT - blue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 13.1-Mastic **Lab Sample ID:** **672001259-0013A**
Sample Description: Thompson/VFT - blue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Brown	0.0%	100.0%	None Detected	

Client Sample ID: 13.2-Vinyl Floor Tile **Lab Sample ID:** **672001259-0014**
Sample Description: Thompson/VFT - blue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 13.2-Mastic **Lab Sample ID:** **672001259-0014A**
Sample Description: Thompson/VFT - blue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020				Insufficient Material	

Client Sample ID: 13.3-Vinyl Floor Tile **Lab Sample ID:** **672001259-0015**
Sample Description: Thompson/VFT - blue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 13.3-Mastic **Lab Sample ID:** **672001259-0015A**
Sample Description: Thompson/VFT - blue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	8/10/2020	Brown	0.0%	100.0%	None Detected	

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

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

Analyst(s):

Simon Parent PLM (21)

Reviewed and approved by:

Simon Parent, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Canada Inc. Ottawa, ON

Initial report from: 08/10/202016:07:23

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Project ID: Ottawa DSS

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Phone: (613) 836-2184
Fax:
Collected: 6/25/2020
Received: 9/21/2020
Analyzed: 9/25/2020

Proj: University of Ottawsa 0Z2-021101 (45 University) (Ottawa DSS)

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

Client Sample ID: 14.1 ***Lab Sample ID:*** **672001664-0001**
Sample Description: 45 University/Fire Stopper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 14.2 ***Lab Sample ID:*** **672001664-0002**
Sample Description: 45 University/Fire Stopper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 14.3 ***Lab Sample ID:*** **672001664-0003**
Sample Description: 45 University/Fire Stopper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 15.1 ***Lab Sample ID:*** **672001664-0004**
Sample Description: 45 University/2x2 CT - small pinholes

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 15.2 ***Lab Sample ID:*** **672001664-0005**
Sample Description: 45 University/2x2 CT - small pinholes

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 15.3 ***Lab Sample ID:*** **672001664-0006**
Sample Description: 45 University/2x2 CT - small pinholes

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 16.1 ***Lab Sample ID:*** **672001664-0007**
Sample Description: 45 University/Red firestopper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Red	0.0%	100.0%	None Detected	

EMSL Canada Inc.

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http://www.EMSL.com / ottawalab@EMSL.com

EMSL Canada Order 672001664
Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Client Sample ID: 16.2 ***Lab Sample ID:*** **672001664-0008**
Sample Description: 45 University/Red firestopper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Red	0.0%	100.0%	None Detected	

Client Sample ID: 16.3 ***Lab Sample ID:*** **672001664-0009**
Sample Description: 45 University/Red firestopper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Red	0.0%	100.0%	None Detected	

Client Sample ID: 17.1-Drywall ***Lab Sample ID:*** **672001664-0010**
Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	6.0%	94.0%	None Detected	

Client Sample ID: 17.1-Acoustic Tile ***Lab Sample ID:*** **672001664-0010A**
Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 17.2-Drywall ***Lab Sample ID:*** **672001664-0011**
Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	7.0%	93.0%	None Detected	

Client Sample ID: 17.2-Acoustic Tile ***Lab Sample ID:*** **672001664-0011A**
Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 17.3 ***Lab Sample ID:*** **672001664-0012**
Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	Gray	7.0%	93.0%	None Detected	Sample is drywall only

Client Sample ID: 17.4-Joint Compound 1 ***Lab Sample ID:*** **672001664-0013**
Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	White	0.0%	100.0%	None Detected	

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EMSL Canada Order 672001664
Customer ID: 55CTCS25B
Customer PO: 0Z2-021101
Project ID: Ottawa DSS

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

Client Sample ID: 17.4-Joint Compound 2 ***Lab Sample ID:*** **672001664-0013A**

Sample Description: 45 University/DJC

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/25/2020	White	0.0%	100.0%	None Detected	

Analyst(s):

Ewa Krupinska PLM (5)
Simon Parent PLM (11)

Reviewed and approved by:

Simon Parent, Laboratory Manager
or Other Approved Signatory

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

Samples analyzed by EMSL Canada Inc. Ottawa, ON

Initial report from: 09/25/202017:08:40

EMSL Canada Inc.
2756 Slough Street, Mississauga, ON L4T 1G3
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EMSL Canada Or	552008898
CustomerID:	55CTCS25B
CustomerPO:	0Z2-0211012
ProjectID:	Ottawa DSS

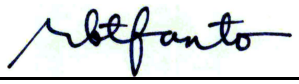
Attn: **Monica Black**
McIntosh Perry Consulting Engineers Ltd
115 Walgreen Rd RR 3
Carp, ON K0A 1L0

Phone: (613) 836-2184
Fax:
Received: 7/28/2020 11:26 AM
Collected:

Project: **University of Ottawa 0Z2-0211012 Thompson - uOttawa DSS**

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

Client SampleDescription	*Collected*	*Analyzed*	*Weight*	*RDL*	*Lead Concentration*
PB1		7/28/2020	0.2491 g	0.0080 % wt	<0.0080 % wt
552008898-0001	Site: Thompson - White Wall Paint				
PB2		7/28/2020	0.1006 g	0.020 % wt	<0.020 % wt
552008898-0002	Site: Thompson - Light Grey Wall Paint Insufficient sample to reach reporting limit.				
PB3		7/28/2020	0.1338 g	0.015 % wt	<0.015 % wt
552008898-0003	Site: Thompson - Beige Door Paint Insufficient sample to reach reporting limit.				
PB4		7/28/2020	0.0414 g	0.048 % wt	<0.048 % wt
552008898-0004	Site: Thompson - Dark Grey Door Paint Insufficient sample to reach reporting limit.				



Rowena Fanto, Lead Supervisor
or other approved signatory

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.
Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA-LAP, LLC - ELLAP #196142

Initial report from 08/04/2020 09:44:31

APPENDIX D

Site Photographs

Photo 1: View of typical finishes observed at the building located at 45 University Private.

Photo 2: View of typical finishes observed at the building located at 45 University Private.

Photo 3: View of typical finishes observed at the building located at 45 University Private.

Photo 4: View of asbestos-containing vinyl floor tiles (12”x12”- Beige) observed in Room 1918A.

Photo 5: View of asbestos-containing vinyl floor tiles (12”x12” – Yellow) observed in Room 012.

Photo 6: View of asbestos-containing drywall joint compound observed to be in poor condition in Room 03.

Photo 7: View of asbestos-containing drywall joint compound observed to be in poor condition in Room 047.

Photo 8: View of asbestos-containing drywall joint compound observed to be in poor condition in Room 115B.

Photo 9: View of asbestos-containining vinyl floor tiles observed to be in fair condition in Room 122.

Photo 10: View of asbestos-containing drywall joint compound observed to be in poor condition in Room 131.

Photo 11: View of asbestos-containing drywall joint compound observed to be in poor condition in Room 315.

Photo 12: View of asbestos-contanining transite pipe observed to be in fair condtiion in Room PM3.

Photo 13: View of asbestos-contanining transite pipe observed in Room 045.

Photo 14: View of water damaged ceiling tiles observed in Room 09.

Photo 15: Typical view of asbestos-containing pipe fitting insulation observed throughout the subject building.

Photo 16: View of water damaged ceiling tiles observed in Room 104.

Photo 17: View of water damaged texture finish on ceiling observed to be in fair condition in Room 1222.

Photo 18: View of ODS containing air-conditioning unit in Room 126E.

APPENDIX E

Asbestos-Containing Materials Checklists

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
0	03	Drywall Joint Compound	-	Suspected	-	Poor Condition	Easy	Low	2	SF	Repair or Remove Following Type 1 Abatement Procedures	$600.00	
0	012	12" x 12" Vinyl Floor Tile	Yellow	Confirmed	Non-Friable	Good Condition	Easy	Low	134	SF	Manage in Place		
0	02	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	30	LF	Manage in Place		
0	04	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	10	LF	Manage in Place		
0	05	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	30	LF	Manage in Place		
0	034	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	12	SF	Manage in Place		
0	045	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	60	SF	Manage in Place		
0	04	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	22	C	Manage in Place		
0	013	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Fair Condition	Moderate	Low	1	C	Monitor Condition of Material. Consider Removal or Repair.		
0	013	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	5	C	Manage in Place		
0	021	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
0	022	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	4	C	Manage in Place		
0	033	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	2	C	Manage in Place		
0	036	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	2	C	Manage in Place		
0	037	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Fair Condition	Moderate	Low	1	C	Monitor Condition of Material. Consider Removal or Repair.		
0	038	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
0	039	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
0	040	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
0	041	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
0	042	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	2	C	Manage in Place		
0	045	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	2	C	Manage in Place		
0	047	Drywall Joint Compound	-	Confirmed	-	Poor Condition	Easy	Low	2	SF	Repair or Remove Following Type 1 Abatement Procedures	$600.00	
0	048	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	8	C	Manage in Place		
0	050	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	2	C	Manage in Place		
0	050	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Monitor Condition of Material. Consider Removal or Repair.		
0	056	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
0	050	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	10	SF	Manage in Place		
0	053	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	28	SF	Manage in Place		
0	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
1	104B	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	56	SF	Manage in Place		
1	108A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	48	SF	Manage in Place		
1	109	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
1	110	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	173	SF	Manage in Place		
1	114	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	304	SF	Manage in Place		
1	115B	Drywall Joint Compound	-	Confirmed	-	Poor Condition	Easy	Low	1	SF	Repair or Remove Following Type 1 Abatement Procedures	$600.00	
1	127	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
1	127	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	1	C	Manage in Place		
1	127	Pipe Straight Insulation	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	65	LF	Manage in Place		
1	127	Tank Insulation	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	127	SF	Manage in Place		
1	127	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	15	SF	Manage in Place		
1	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
1	114A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	102	SF	Manage in Place		
1	115	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	141	SF	Manage in Place		
1	115A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	158	SF	Manage in Place		
1	115B	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	228	SF	Manage in Place		
1	115C	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	159	SF	Manage in Place		
1	122	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	122	SF	Manage in Place		
1	122	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Fair Condition	Easy	Low	21	SF	Manage in Place		
1	125	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	174	SF	Manage in Place		
1	131	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	43	SF	Manage in Place		
1	131	Drywall Joint Compound	-	Confirmed	-	Poor Condition	Easy	Low	1	SF	Repair or Remove Following Type 1 Abatement Procedures	$600.00	
2	213	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	66	SF	Manage in Place		
2	220	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	182	SF	Manage in Place		Residual on Ceiling Plenum
2	214	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	3	SF	Manage in Place		
2	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
3	318A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
3	321	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
3	301	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
3	302	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
3	303	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
3	304	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
3	305	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
3	306	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
3	307	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
3	308	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
3	310	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
3	311	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
3	312	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
3	313	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
3	314	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
3	315	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
3	315	Drywall Joint Compound	-	Confirmed	-	Poor Condition	Easy	Low	1	SF	Repair or Remove Following Type 1 Abatement Procedures	$600.00	
3	316	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
3	318	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
3	319	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
3	321	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	47	SF	Manage in Place		
3	327	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	74	SF	Manage in Place		
3	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
4	418A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
4	401	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
4	403	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
4	404	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
4	405	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
4	406	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
4	407	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
4	408	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
4	409	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
4	410	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
4	412	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
4	413	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
4	414	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
4	415	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
4	416	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
4	418	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
4	419	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
4	421	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	47	SF	Manage in Place		
4	422A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
4	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
4	416B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
5	518A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
5	521	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
5	501	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
5	502	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
5	504	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
5	505	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
5	506	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
5	507	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
5	508	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
5	509	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
5	510	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
5	511	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
5	512	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
5	513	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
5	514	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
5	515	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
5	519	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
5	522A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	47	SF	Manage in Place		
5	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
6	618A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
6	621	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
6	601	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
6	602	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
6	603	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
6	604	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
6	605	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
6	606	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
6	607	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
6	608	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
6	609	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
6	610	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
6	611	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
6	612	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
6	613	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
6	614	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
6	616	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
6	616B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
6	618	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
6	619	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
6	622A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
6	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
7	718A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
7	721	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
7	701	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
7	702	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
7	703	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
7	704	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
7	705	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
7	706	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
7	707	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
7	708	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
7	709	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
7	710	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
7	711	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
7	712	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
7	713	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
7	714	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
7	715	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
7	716	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
7	717	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		
7	718	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
7	719	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
7	722A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
7	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
8	818A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
8	821	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
8	801	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
8	802	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
8	803	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
8	804	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
8	805	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
8	806	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
8	807	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
8	808	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
8	809	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
8	810	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
8	811	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
8	812	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
8	813	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
8	814	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
8	815	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
8	816	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
8	816B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
8	718	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
8	819	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
8	822A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
8	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
9	918A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
9	921	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
9	901	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
9	902	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
9	903	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
9	904	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
9	905	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
9	906	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
9	907	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
9	908	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
9	909	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
9	910	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
9	911	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
9	912	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
9	913	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
9	914	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
9	915	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
9	916	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
9	917	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		
9	919	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
9	922A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
9	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
10	1018A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
10	1021	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
10	1002	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
10	1003	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
10	1004	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
10	1005	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
10	1006	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
10	1007	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
10	1008	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
10	1010	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
10	1011	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
10	1012	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
10	1013	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
10	1015	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
10	1016B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
10	1019	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
10	1022A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
10	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
11	1118A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
11	1121	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
11	1102	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
11	1103	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
11	1104	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
11	1105	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
11	1106	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
11	1107	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
11	1108	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
11	1109	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
11	1110	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
11	1111	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
11	1112	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
11	1113	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
11	1114	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
11	1115	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
11	1116	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
11	1117	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		
11	1118	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
11	1119	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
11	1122A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
11	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
12	1218A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
12	1221	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
12	1202	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
12	1203	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
12	1204	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
12	1205	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
12	1206	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
12	1207	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
12	1208	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
12	1209	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
12	1211	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
12	1212	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
12	1213	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
12	1214	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
12	1215	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
12	1216	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
12	1216B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
12	1219	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
12	1222	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Fair Condition	Easy	Low	4	SF	Monitor Condition of Material. Consider Removal or Repair.		
12	1222A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
12	1223	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
12	1228	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
12	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
13	1318A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
13	1321	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
13	1301	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
13	1302	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
13	1303	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
13	1304	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
13	1305	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
13	1306	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
13	1307	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
13	1308	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
13	1309	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
13	1310	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
13	1311	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
13	1312	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
13	1313	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
13	1314	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
13	1315	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
13	1316	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
13	1317	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		
13	1318	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
13	1319	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
13	1322A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
13	1323	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
13	1328	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
13	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
14	1418A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
14	1421	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
14	1401	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
14	1402	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
14	1403	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
14	1404	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
14	1405	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
14	1406	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
14	1407	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
14	1408	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
14	1409	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
14	1410	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
14	1411	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
14	1412	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
14	1413	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
14	1414	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
14	1415	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
14	1416	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
14	1416B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
14	1418	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
14	1419	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
14	1422A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
14	1423	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
14	1428	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
14	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
15	1518A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
15	1521	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
15	1501	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
15	1502	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
15	1503	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
15	1504	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
15	1505	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
15	1506	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
15	1507	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
15	1508	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
15	1509	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
15	1510	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
15	1511	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
15	1512	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
15	1513	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
15	1514	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
15	1515	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
15	1516	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
15	1517	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		
15	1518	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
15	1519	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
15	1522A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
15	1528	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
15	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
16	1618A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
16	1621	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
16	1601	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
16	1602	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
16	1603	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
16	1604	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
16	1605	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
16	1606	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
16	1607	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
16	1608	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	189	SF	Manage in Place		
16	1609	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
16	1610	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
16	1611	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
16	1612	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
16	1613	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
16	1614	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
16	1615	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
16	1616	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
16	1616B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
16	1618	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
16	1619	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
16	1622A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
16	1628	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
16	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
17	1718A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
17	1721	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
17	1701	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
17	1702	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
17	1703	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
17	1704	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
17	1705	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
17	1706	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
17	1707	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
17	1709	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
17	1710	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
17	1711	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
17	1712	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
17	1713	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
17	1714	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
17	1715	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
17	1716	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
17	1717	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
17	1718	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
17	1719	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
17	1722A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
17	1728	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
17	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
18	1818A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
18	1821	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
18	1801	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
18	1802	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
18	1803	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
18	1804	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
18	1805	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
18	1806	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
18	1807	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
18	1808	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	198	SF	Manage in Place		
18	1809	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
18	1810	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
18	1811	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
18	1812	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
18	1813	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
18	1814	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
18	1815	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
18	1816	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
18	1818	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
18	1819	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Fair Condition	Easy	Low	144	SF	Monitor Condition of Material. Consider Removal or Repair.		
18	1822A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
18	1828	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
18	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
19	1918A	12" x 12" Vinyl Floor Tile	Beige	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
19	1921	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
19	1901	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
19	1902	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
19	1903	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
19	1904	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
19	1905	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
19	1906	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
19	1907	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
19	1908	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	198	SF	Manage in Place		
19	1909	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
19	1910	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		
19	1911	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
19	1912	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
19	1913	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
19	1914	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
19	1915	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
19	1916	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
19	1917	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	145	SF	Manage in Place		
19	1918	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
19	1919	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Fair Condition	Easy	Low	144	SF	Monitor Condition of Material. Consider Removal or Repair.		
19	1922A	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	11	SF	Manage in Place		
19	1928	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
19	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
20	2018A	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	40	SF	Manage in Place		
20	2021	12" x 12" Vinyl Floor Tile	Gold	Confirmed	Non-	Good Condition	Easy	Low	47	SF	Manage in Place		
20	2001	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	193	SF	Manage in Place		
20	2002	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	114	SF	Manage in Place		
20	2003	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
20	2004	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	201	SF	Manage in Place		
20	2005	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	191	SF	Manage in Place		
20	2006	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	113	SF	Manage in Place		
20	2007	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	104	SF	Manage in Place		
20	2008	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	198	SF	Manage in Place		
20	2009	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
20	2010	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	103	SF	Manage in Place		

Floor/Level	Room	Type of ACM	Description	Asbestos Confirmed/ Suspected	Friable/Non-Friable	Damaged/ Deteriorated	Accessibility	Level of Work Near Material	Approx. Quantity	Unit	Recommended Action	Estimated Abatement Cost	Comments
20	2011	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	115	SF	Manage in Place		
20	2012	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	192	SF	Manage in Place		
20	2013	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	202	SF	Manage in Place		
20	2014	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	190	SF	Manage in Place		
20	2015	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	112	SF	Manage in Place		
20	2016	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	102	SF	Manage in Place		
20	2016B	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	90	SF	Manage in Place		
20	2018	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	203	SF	Manage in Place		
20	2019	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	144	SF	Manage in Place		
20	2028	Ceiling Plaster with Texture Coat	White	Confirmed	Friable	Good Condition	Easy	Low	22	SF	Manage in Place		
20	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
21	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
22	Throughout Subject Floor	Roofing Materials	-	Suspected	-	Good Condition	Moderate	Low	-	-	Manage in Place		
22	Throughout Subject Floor	Drywall Joint Compound	-	Confirmed	-	Good Condition	Moderate	Low	-	-	Manage in Place		
PH1	P3	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	15	C	Manage in Place		
PH1	P4	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	4	C	Manage in Place		
PH1	3	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	12	LF	Manage in Place		
PH2	PM3	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	73	C	Manage in Place		
PH2	PM3	Tank Insulation	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	151	SF	Manage in Place		
PH2	PM3	Pipe Straight Insulation	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	10	LF	Manage in Place		
PH2	PM3	Transite Pipe	Transite	Suspected	Friable	Fair Condition	Moderate	Low	2	LF	Monitor Condition of Material. Consider Removal or Repair.		
PH2	PM4	Pipe Elbows/fittings	Parging Cement	Confirmed	Friable	Good Condition	Moderate	Low	16	C	Manage in Place		
PH2	3	Transite Pipe	Rainwater Leader	Confirmed	Non-	Good Condition	Easy	Low	50	LF	Manage in Place		

APPENDIX F

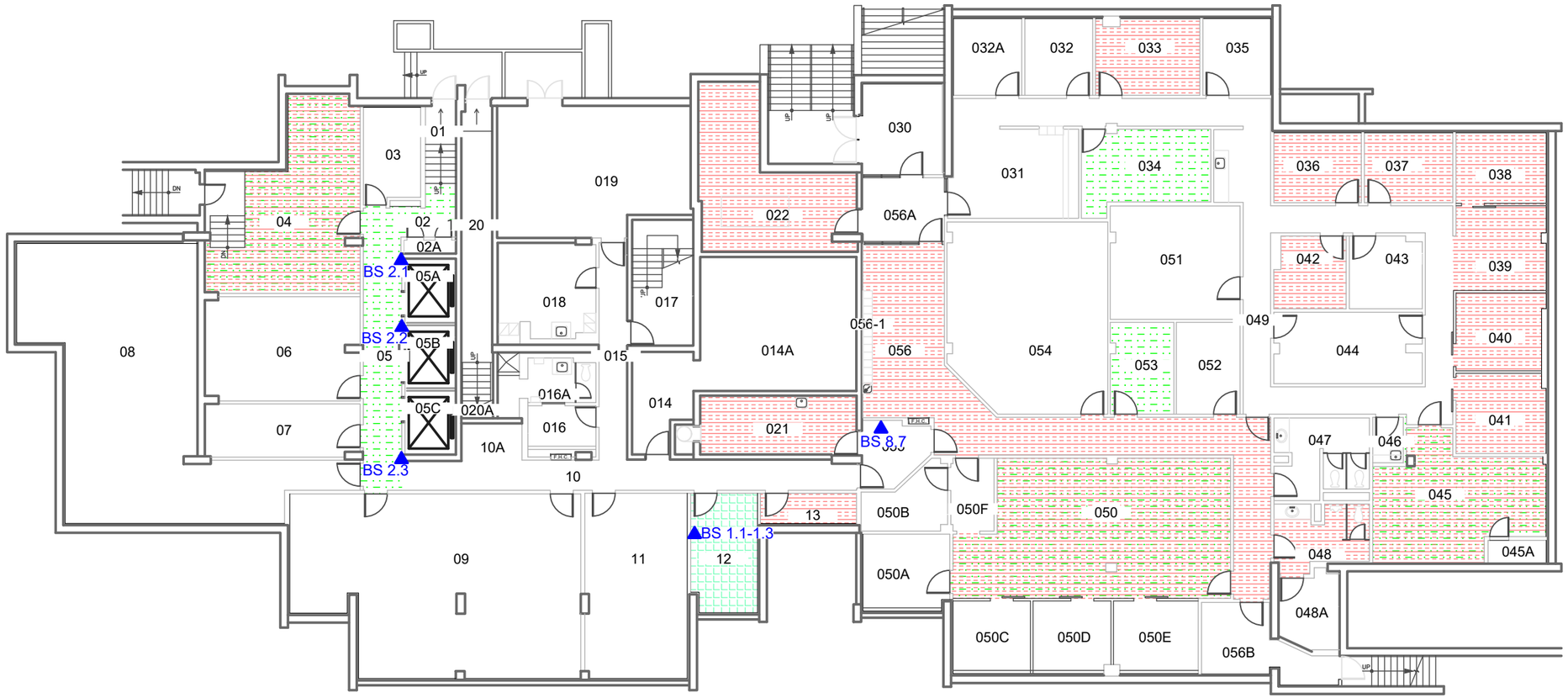
Hazardous Containing Materials Checklists

Floor/Level	Location	DS Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Estimated Abatement Cost	Comments
0	5	Water Damage	Ceiling Tiles	White	Poor Condition	-	4	C	Confirmed	Should be replaced as part of regular maintenance.		
0	9	Water Damage	Ceiling Tiles	White	Poor Condition	-	2	C	Confirmed	Should be replaced as part of regular maintenance.		
0	4	Lead	Door Paint	Light Green	Good Condition	-	-	-	Confirmed	Manage in Place		
1	126E	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	-	1	C	Confirmed	Manage in Place	Unknown Refrigerant	
1	104	Water Damage	Ceiling Tiles	White	Poor Condition	-	2	C	Confirmed	Should be replaced as part of regular maintenance.		
1	1222	Water Damage	Ceiling Plaster with Texture Coat	White	Fair Condition	-	2	C	Confirmed	Should be replaced as part of regular maintenance.		
16	1610	Lead	Door Paint	Beige	Good Condition	-	-	-	Confirmed	Manage in Place		
20	2003	Lead	Door Paint	Beige	Good Condition	-	-	-	Confirmed	Manage in Place		
20	2003	Lead	Door Frame Paint	Brown	Good Condition	-	-	-	Confirmed	Manage in Place		
20	2024	Lead	Door Paint	Blue	Good Condition	-	-	-	Confirmed	Manage in Place		
PH1	P3	Lead	Door Paint	Green	Good Condition	-	-	-	Confirmed	Manage in Place		
All	Throughout Subject Building	Lead	Battery Pack	-	Good Condition	-	-	-	Confirmed	Manage in Place		
All	Throughout Subject Building	Mercury	Fluorescent Light Tubes	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		

Floor/Level	Location	DS Type	Component	Colour	Condition	Manufacturer	Quantity #	Unit	Suspected/ Confirmed	Recommended Action	Estimated Abatement Cost	Comments
All	Throughout Subject Building	Polychlorinated Biphenyls (PCBs)	Light Ballast	N/A	Good Condition	-	-	-	Suspected	Manage in Place		
All	Throughout Subject Building	Ozone Depleting Substances (ODS)	Air Conditioning Unit	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	Unknown Refrigerant	
All	Throughout Subject Building	Ozone Depleting Substances (ODS)	Refrigerator	N/A	Good Condition	-	-	-	Confirmed	Manage in Place	Unknown Refrigerant	
All	Throughout Subject Building	Radioactive Material	Smoke Detector	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		
All	Throughout Subject Building	Silica	Concrete, Mortar, Etc.	N/A	Good Condition	-	-	-	Confirmed	Manage in Place		

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:

- ▲ Asbestos Bulk Sample
- □ Lead Paint Sample <LOD
- ■ Lead Paint Sample >LOD
- ACM Transite (Pipe)
- ACM Vinyl Floor Tiles (VFT)
- ACM Mechanical Insulation

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
BASEMENT

SCALE: 1:200

DATE: DECEMBER 4, 2020

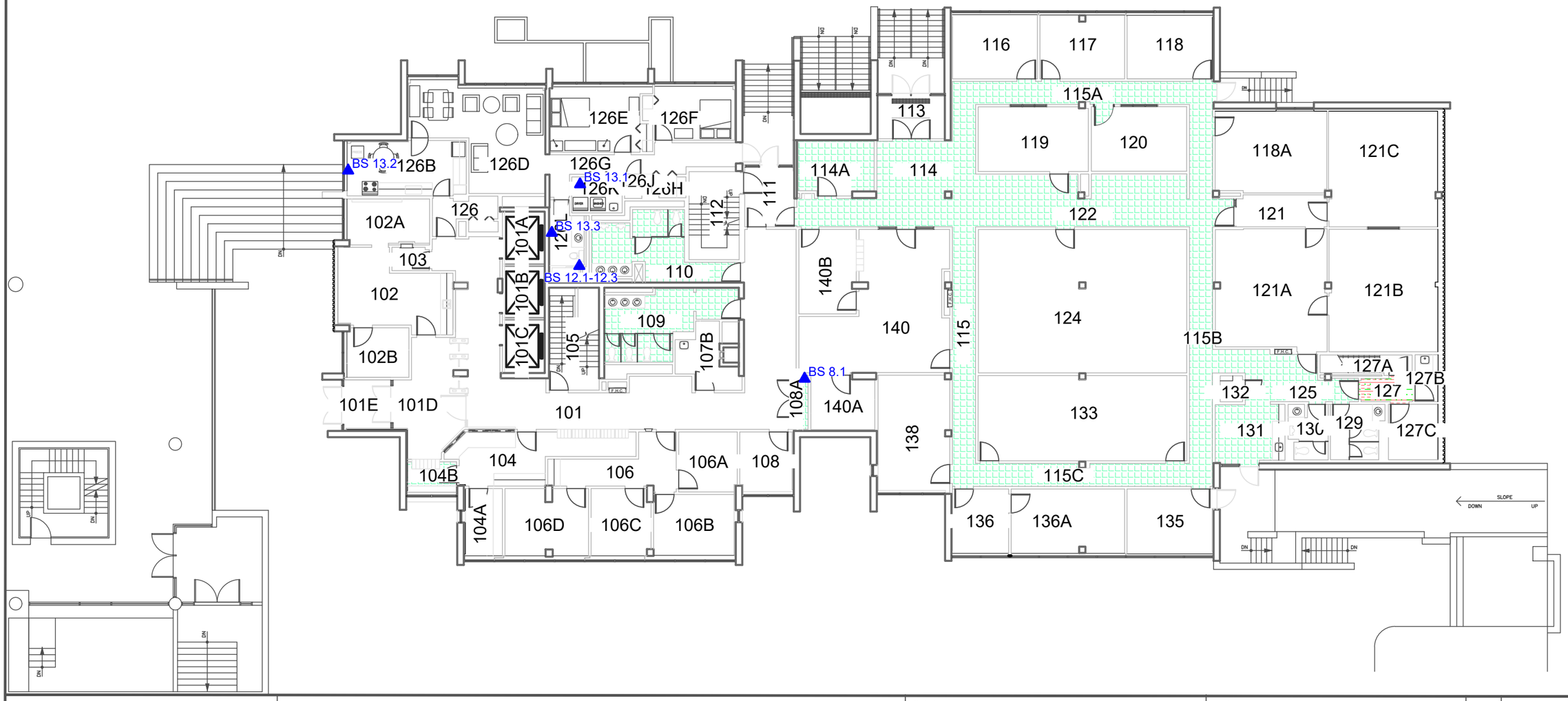
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A0

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:

- ▲Asbestos Bulk Sample
- □Lead Paint Sample <LOD
- ■Lead Paint Sample >LOD
- ACM Transite (Pipe)
- ACM Vinyl Floor Tiles (VFT)
- ACM Mechanical Insulation

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
GROUND FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

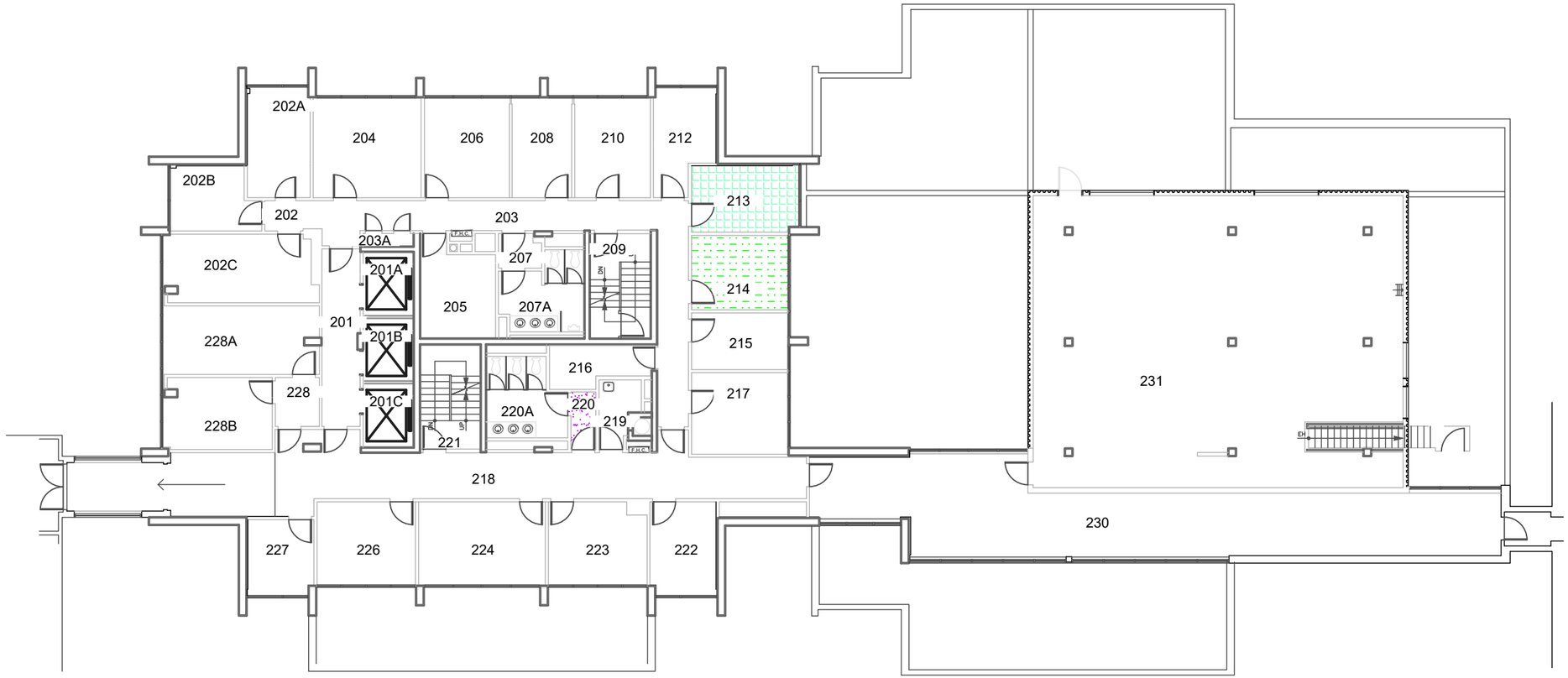
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A1

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:

- ▲ Asbestos Bulk Sample
- □ Lead Paint Sample <LOD
- ■ Lead Paint Sample >LOD
- ACM Transite (Pipe)
- ACM Vinyl Floor Tiles (VFT)
- ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
SECOND FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

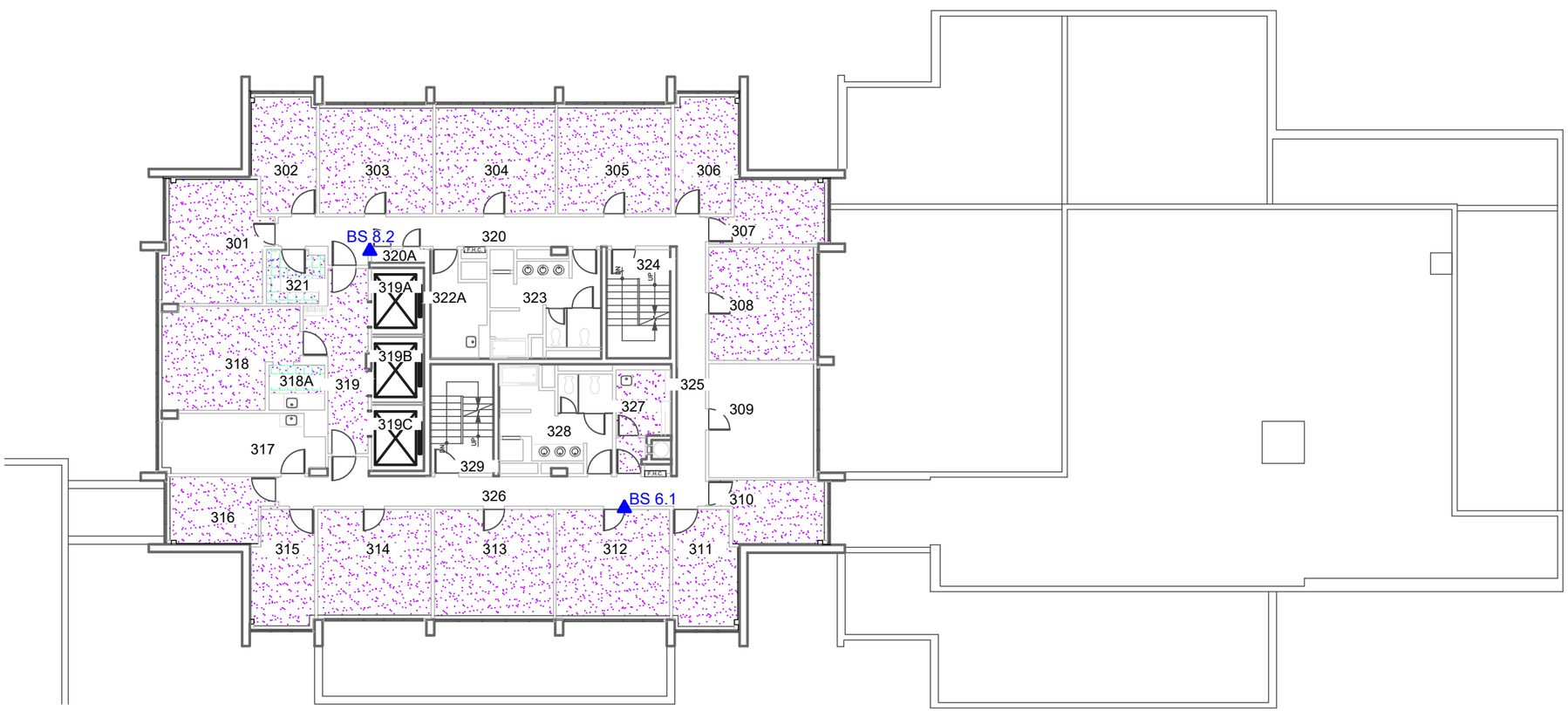
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A2

REV.:



Legend:

- ▲ Asbestos Bulk Sample
- □ Lead Paint Sample <LOD
- ■ Lead Paint Sample >LOD
- ACM Vinyl Floor Tiles (VFT)
- ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

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

CLIENT: UNIVERSITY OF OTTAWA

TITLE: SAMPLE LOCATIONS THIRD FLOOR

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

SCALE: 1:200

DATE: DECEMBER 4, 2020

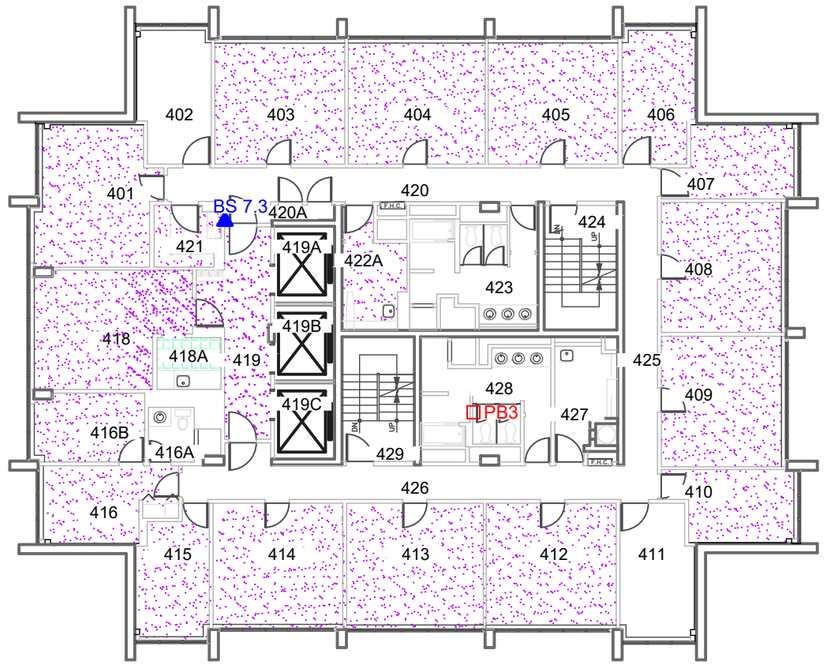
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A3

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
FOURTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

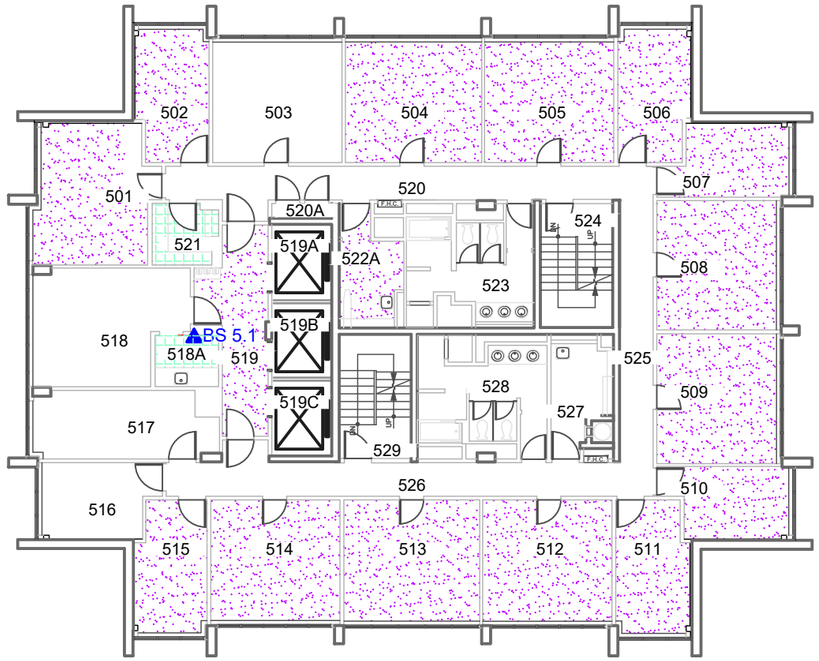
DRAWN: K.B.

CHECKED: M.M.

DRAWING NUMBER: A4

REV. NO.	DESCRIPTION	DATE	BY	APPD.

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
FIFTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

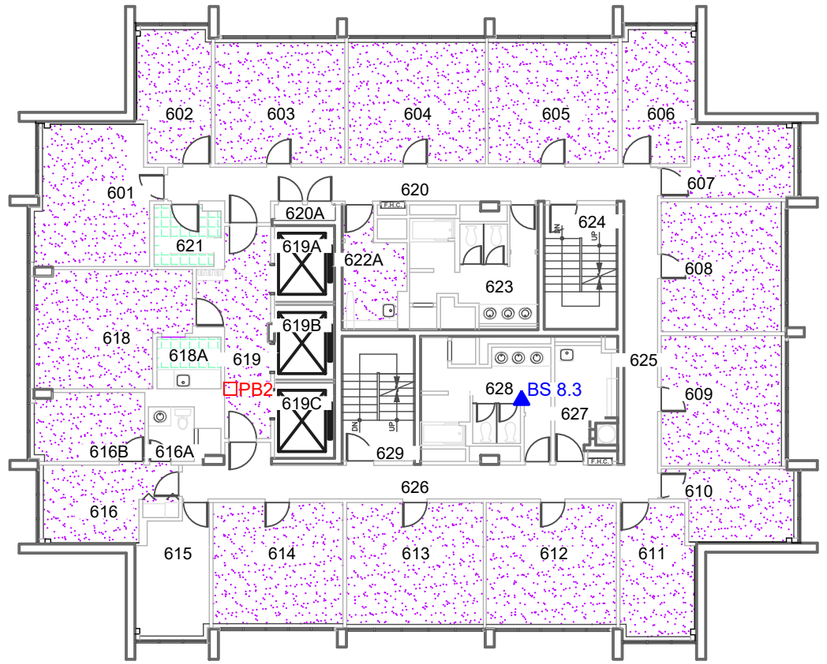
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A5

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
SIXTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

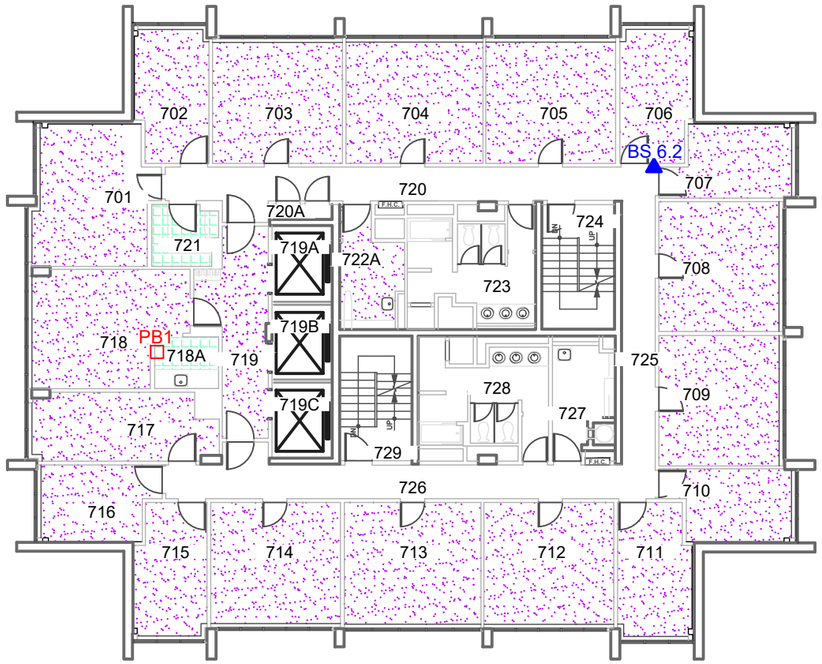
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A6

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
SEVENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

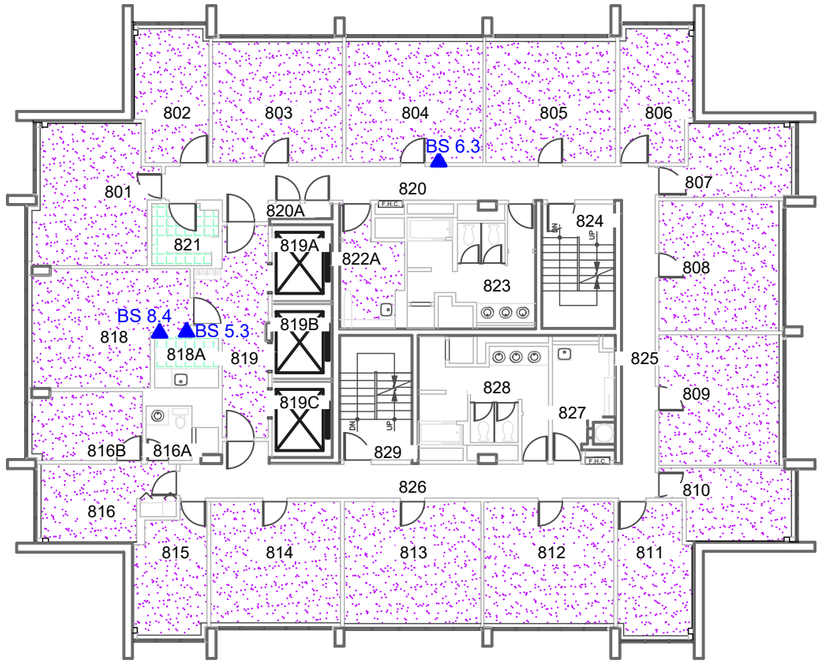
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A7

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
EIGHTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

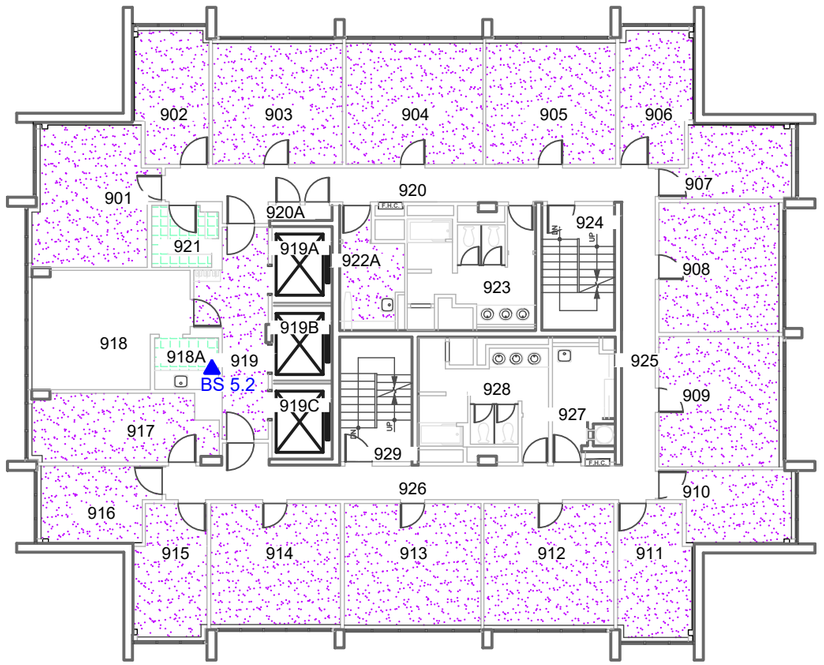
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A8

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
NINTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

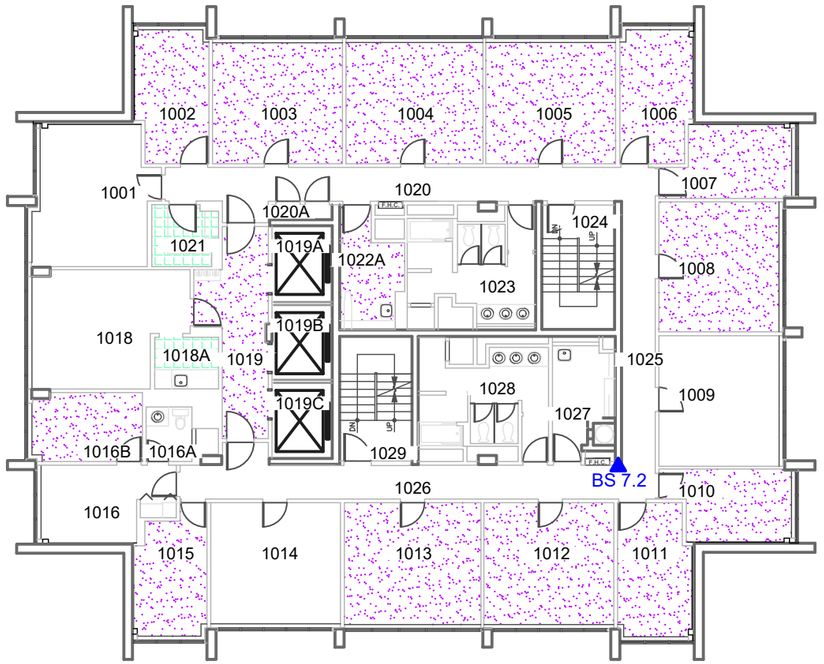
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A9

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:

▲Asbestos Bulk Sample

□Lead Paint Sample <LOD

■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)

ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
TENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

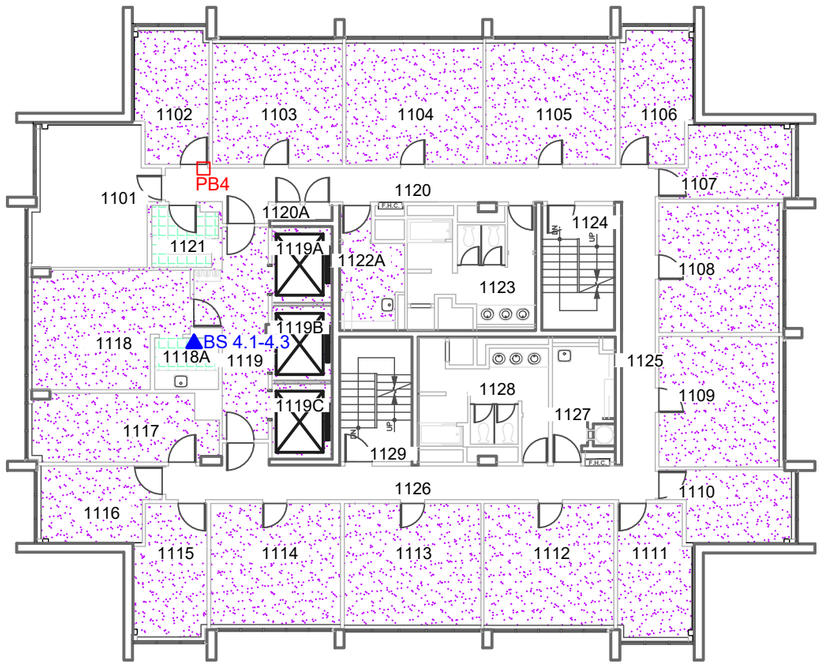
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A10

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
ELEVENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

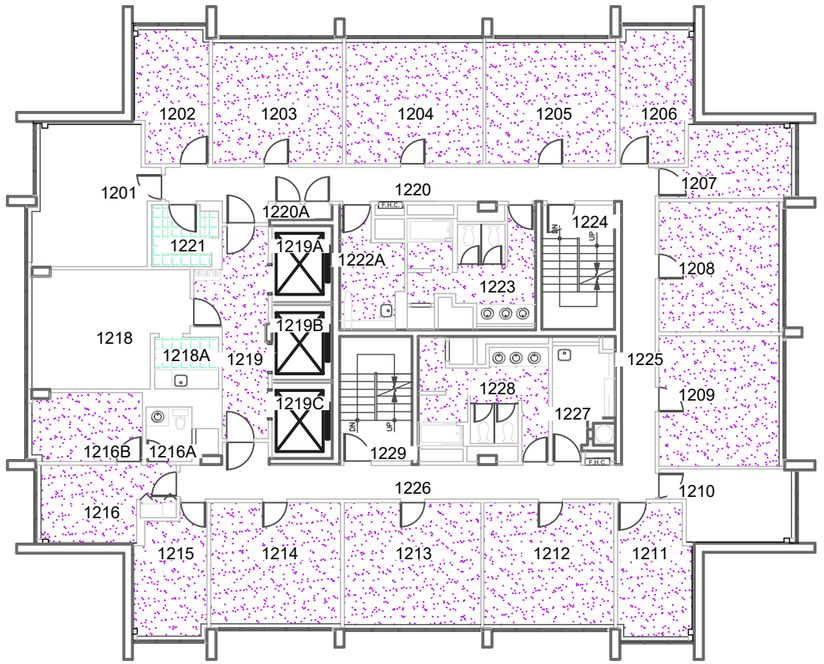
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: All

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
TWELFTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

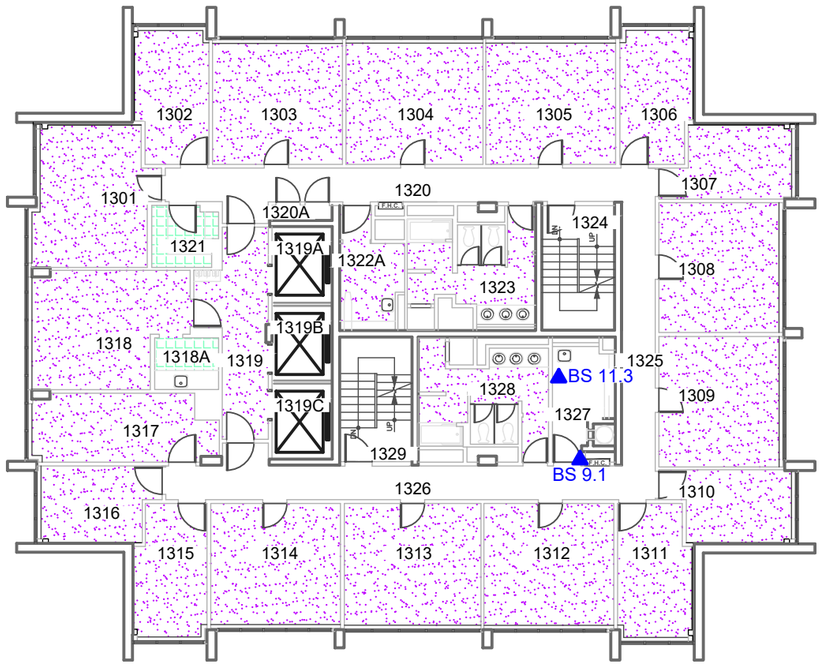
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: AI2

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
THIRTEENTH FLOOR

SCALE: I:200

DATE: DECEMBER 4, 2020

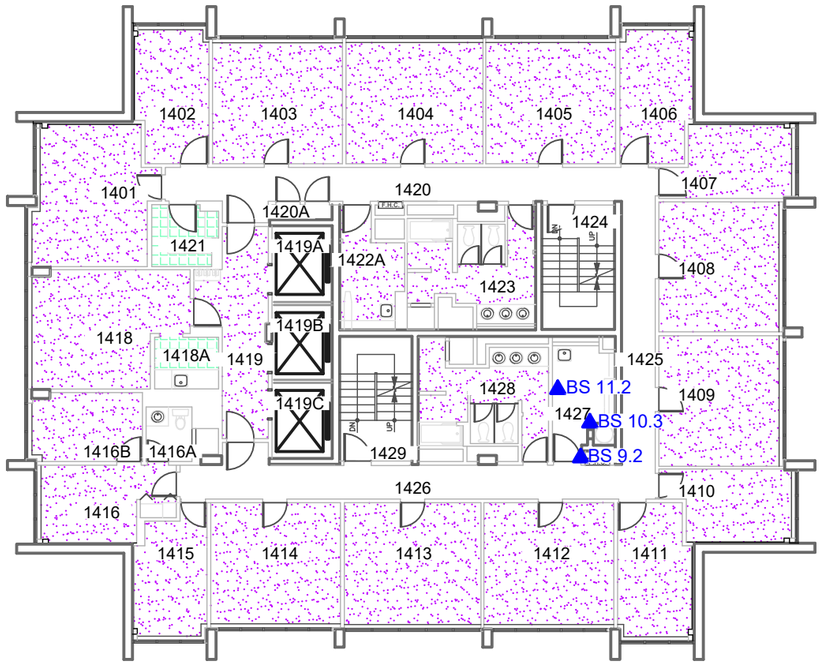
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A13

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:

- ▲Asbestos Bulk Sample
- □Lead Paint Sample <LOD
- ■Lead Paint Sample >LOD
- ACM Vinyl Floor Tiles (VFT)
- ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
FOURTEENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

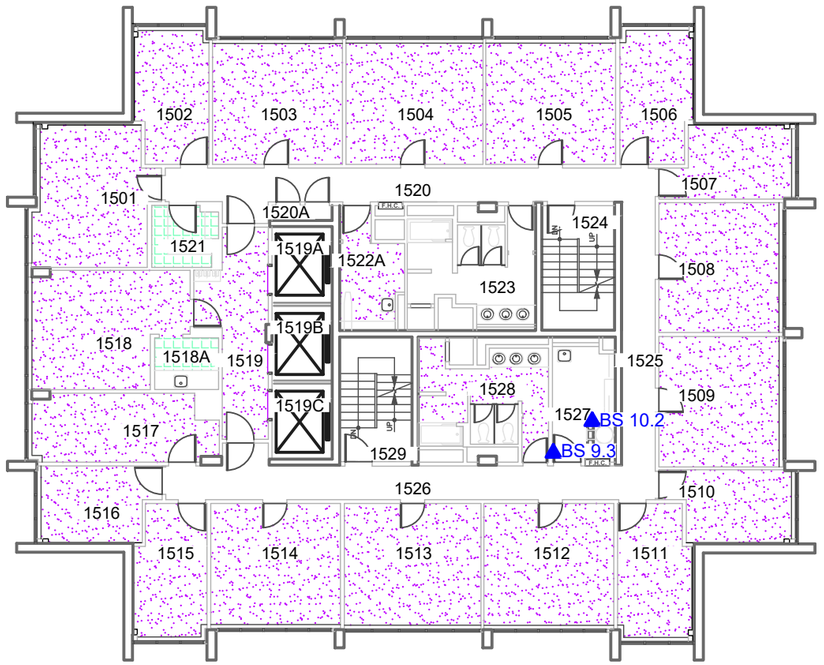
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A14

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
FIFTEENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

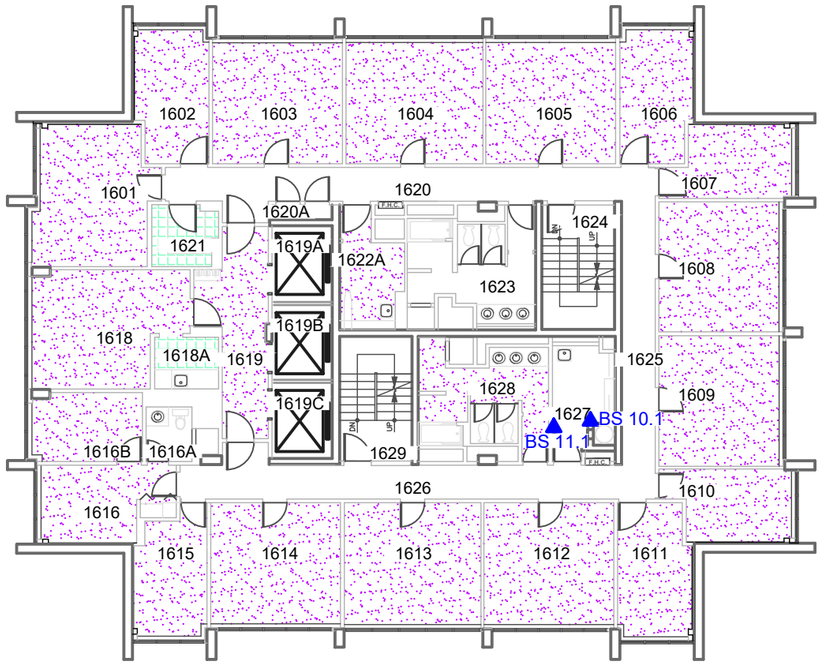
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: AI5

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
SIXTEENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

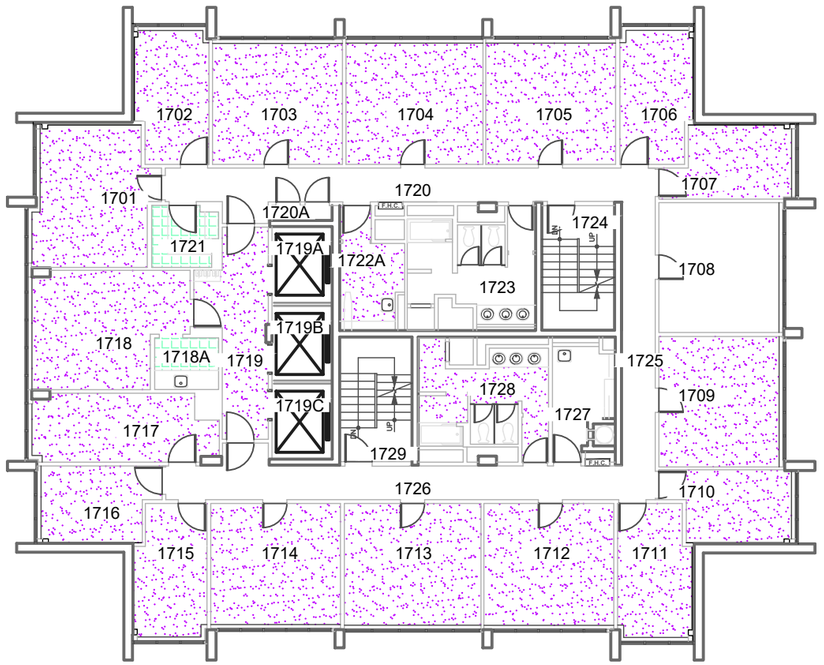
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A16

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
SEVENTEENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

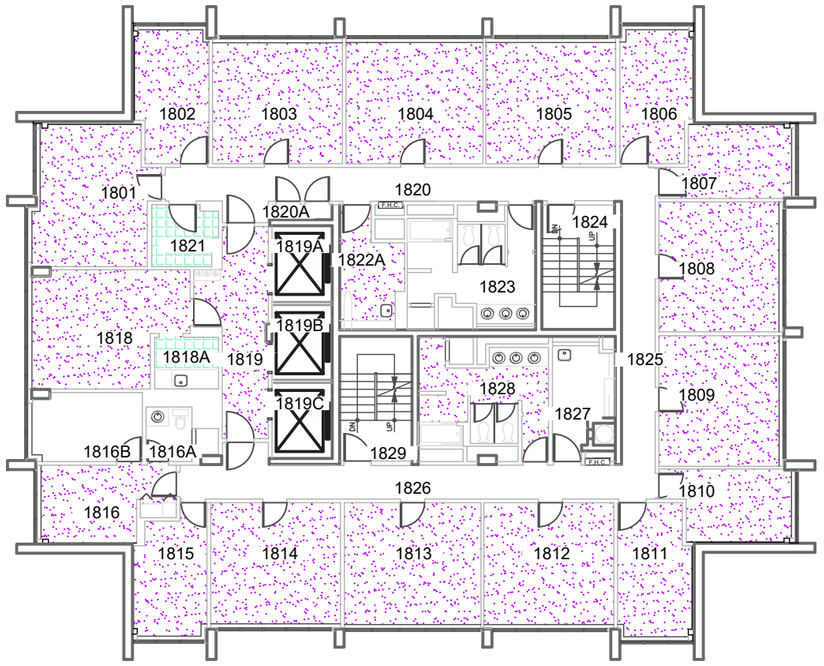
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A17

REV.:



Legend:

- ▲ Asbestos Bulk Sample
- ☐ Lead Paint Sample <LOD
- ■ Lead Paint Sample >LOD
- ACM Vinyl Floor Tiles (VFT)
- ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

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

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
EIGHTEENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

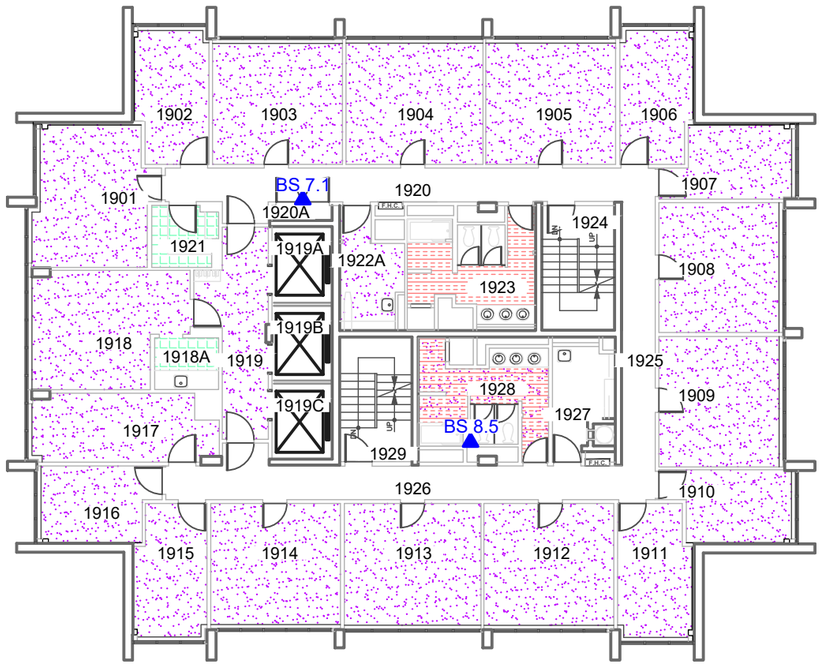
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: AI8

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Vinyl Floor Tiles (VFT)
ACM Mechanical Insulation
ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
NINETEENTH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

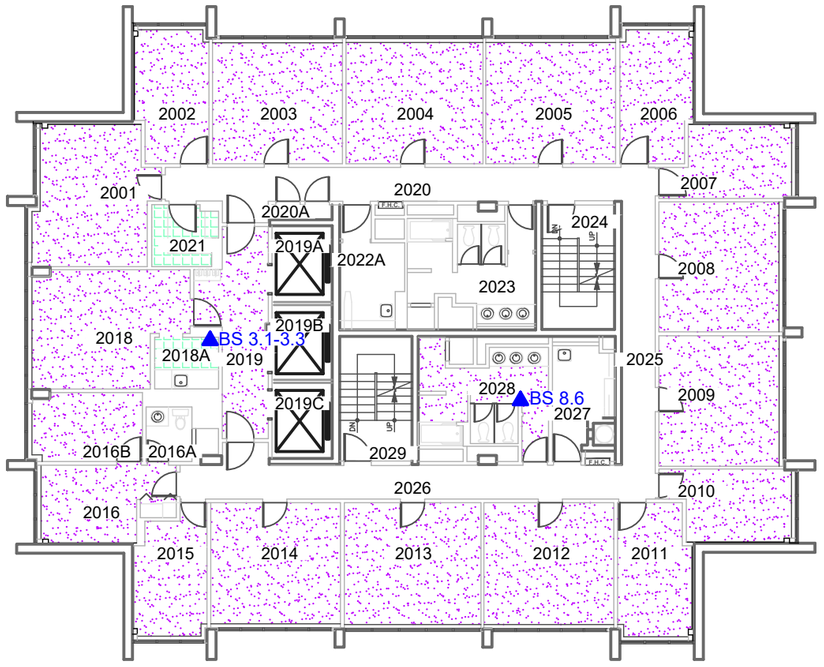
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: AI9

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:

- ▲ Asbestos Bulk Sample
- □ Lead Paint Sample <LOD
- ■ Lead Paint Sample >LOD
- ACM Vinyl Floor Tiles (VFT)
- ACM Texture Coat

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
TWENTIETH FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

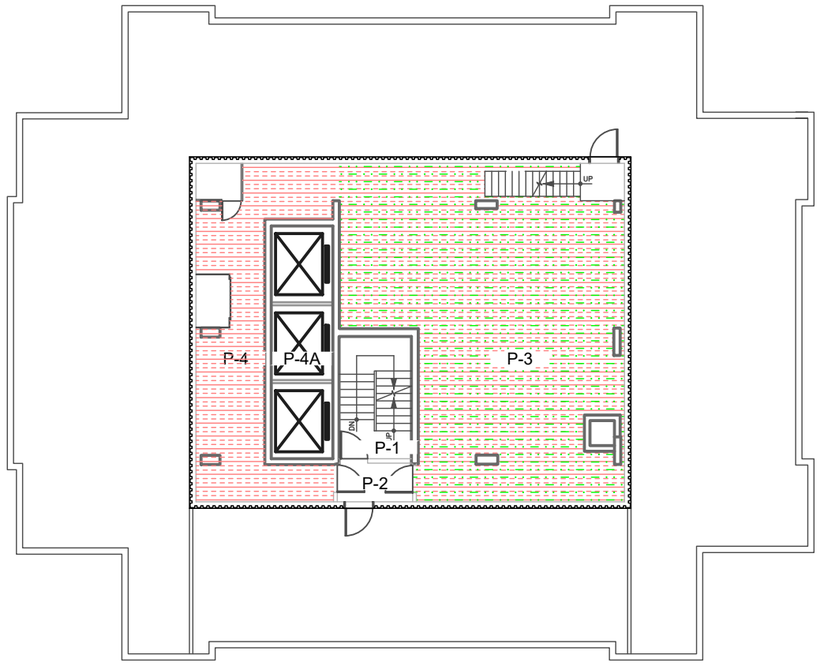
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A20

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Mechanical Insulation
ACM Transite (Pipe)

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
TWENTY FIRST FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

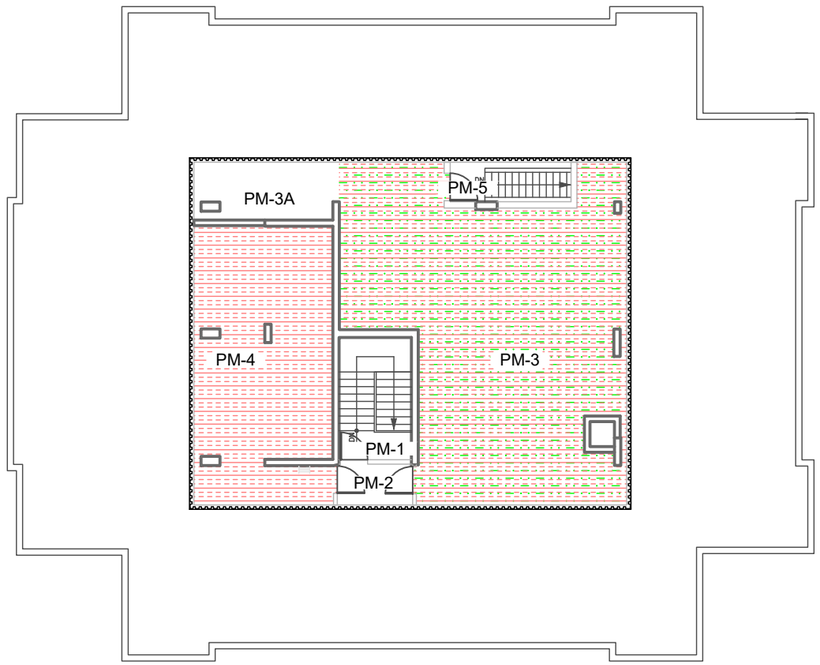
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A21

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

ACM Mechanical Insulation
ACM Transite (Pipe)

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
TWENTY SECOND FLOOR

SCALE: 1:200

DATE: DECEMBER 4, 2020

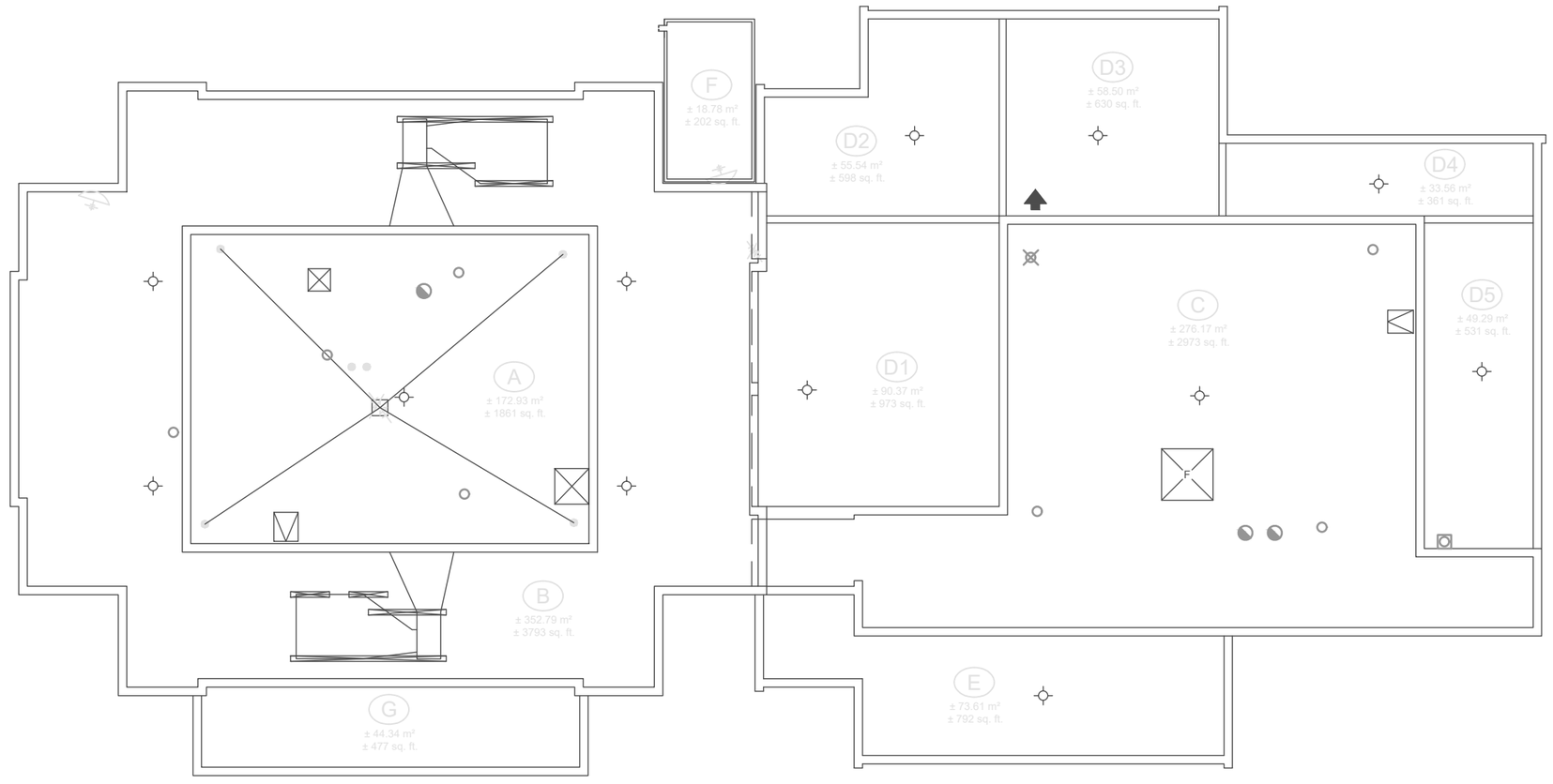
DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A22

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:

▲Asbestos Bulk Sample
□Lead Paint Sample <LOD
■Lead Paint Sample >LOD

NOTES: Drywall with ACM joint compound is present throughout the building.

CLIENT: UNIVERSITY OF OTTAWA

PROJECT: 45 UNIVERSITY
DESIGNATED SUBSTANCE SURVEY

TITLE: SAMPLE LOCATIONS
ROOF

SCALE: 1:200

DATE: DECEMBER 4, 2020

DRAWN: K.B.

CHECKED: M.M.

REV. NO.	DESCRIPTION	DATE	BY	APPD.

DRAWING NUMBER: A23

REV.: