



DESIGNATED SUBSTANCES REPORT

Rev A

**The Supreme Court of Canada
301 Wellington Street
Ottawa, Ontario**

PSPC SOA No: EN438-140932/001/FK

Prepared for:

Public Services and Procurement Canada

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Executive Summary

DST Consulting Engineers Inc. (DST), a Division of Englobe, was retained by Public Services and Procurement Canada (PSPC) to provide a non-destructive Designated Substance Report (DSR) for the Supreme Court of Canada, located at 301 Wellington Street in Ottawa, Ontario.

In general, the objectives of the DSS were to:

- Review, compile and summarize past/existing pertinent data for the building with respect to designated substances;
- Conduct a data gap analysis and non-destructive investigation and sampling (as required) for any additional materials suspected of containing designated substances (e.g. asbestos, lead) or other hazardous materials not previously identified;
- Collect and analyze the required number of additional suspect Asbestos Containing-Material (ACM) samples to satisfy the requirements of Ontario Regulation (O.Reg.) 278/05 (as amended) and the PSPC Asbestos Management Standard where applicable;
- Determine the extent of Designated Substances and Hazardous Materials for the building;
- At the request of PSPC, complete supplemental bulk delineation sampling for select materials; and
- Collect sufficient information to subsequently enable DST to recommend appropriate mitigation measures to bring the building into compliance with applicable legislation and/or to mitigate risks to human health and/or the environment.

The DSR scope of work included an assessment for the presence of the 11 Designated Substances, as identified in the Ontario Occupational Health and Safety Act, as well as Polychlorinated Biphenyls (PCBs), Halocarbons, and other miscellaneous hazardous materials or chemicals (as deemed prudent).

DST conducted the non-destructive survey of the Supreme Court of Canada in January – February 2020, as well as October 2020 for data gap analysis sampling and again in January 2021.

Table I below provides a general overview of Designated Substances and Hazardous Materials identified at 301 Wellington Street based upon this non-destructive survey.

Table I: Overview of Designated Substances and Hazardous Materials	
Designated Substances and Hazardous Materials Identified	Designated Substances and Hazardous Materials Not Identified¹
<ul style="list-style-type: none"> • Asbestos, • Lead, • Mercury, • Silica, • PCBs, • Halocarbons, • Mould, and • Other Hazardous Materials. 	<ul style="list-style-type: none"> • Acrylonitrile, • Arsenic, • Benzene, • Coke Oven Emissions, • Ethylene Oxide, • Isocyanates, and • Vinyl Chloride.

Table II below summarizes the findings and recommendations for the Designated Substances and Hazardous Materials observed as part of the 301 Wellington Street building survey.

Table II: Summary of Findings and Recommendations for Designated Substances and Hazardous Materials Observed		
Designated/ Hazardous Substance	Findings	Recommendations
Asbestos	Friable, non-friable, and suspected Asbestos-Containing Materials (ACMs) were identified in the Supreme Court of Canada. Refer to Section 5.3 for further information and details regarding ACMs.	<p>The disturbance of ACMs in federal buildings is governed by the Canada Occupational Health and Safety Regulations, PSPC Asbestos Management Standard and in the province of Ontario is governed by <i>O.Reg. 278/05, Asbestos on Construction Projects and in Buildings and Repair Operations, as amended</i>, enabled under the <i>Occupational Health and Safety Act (R.S.O. 1990, Chapter 0.1)</i>.</p> <p>Refer to Section 6.1 for additional recommendations on identified ACMs.</p> <p>Worker exposure to airborne asbestos is regulated under Ontario Regulation 490/09 – Designated Substances, as amended.</p> <p>The transport and disposal of asbestos waste is governed by <i>O.Reg. 347/90 – General – Waste Management</i>, as amended. This regulation requires that asbestos waste be sealed in appropriately labelled, double containers resistant to puncture and tears. The waste must be disposed at a licensed waste disposal site.</p>

¹ Nor suspected of being present, in forms or quantities that would either impact future work or pose risks to human health or the environment.

Table II: Summary of Findings and Recommendations for Designated Substances and Hazardous Materials Observed		
Designated/ Hazardous Substance	Findings	Recommendations
Lead	Representative paints were sampled by DST and have been identified as containing lead. Lead is also assumed to be present in other building materials. Refer to Section 5.8 for further information and details regarding lead-containing materials.	<p>The Occupational Health and Safety Branch of the Ontario Ministry of Labour publication <i>Guideline: Lead on Construction Projects</i> should be followed during the disturbance of materials containing lead.</p> <p>Although the Federal Canada Consumer Product Safety Act's <i>Surface Coating Materials Regulations SOR/2016-193</i>, as amended, has set a limit of 90 parts per million (ppm) for surface coating materials, there may be a potential for exposure to high levels of lead depending on the activities performed that disturb the lead-containing materials even at low lead concentrations (e.g. by aggressive means). A risk assessment to assess the potential for exposure to lead should be performed in order to determine the need to follow work procedures such as those outlined in the MoL guideline referenced above.</p> <p>Worker exposure to lead is regulated under <i>Ontario Regulation 490/09 – Designated Substances</i>, as amended. The disposal of lead waste is regulated under <i>Ontario Regulation 347/90 – General – Waste Management</i>, as amended.</p> <p>Refer to Section 6.2 for additional recommendations on materials assumed of containing lead.</p>
Mercury	Mercury is assumed to be present within select materials. Refer to Section 5.9 for information and details regarding mercury containing materials.	<p>Worker exposure to mercury is regulated under <i>Ontario Regulation 490/09 – Designated Substances</i>, as amended. The disposal of mercury waste is regulated under <i>Ontario Regulation 347/90 – General – Waste Management</i>, as amended.</p> <p>Refer to Section 6.3 for additional recommendations on materials suspected of containing mercury.</p>
Silica	Silica is assumed to be present within select building materials. Refer to Section 5.10 for information and details regarding silica-containing materials.	<p>Dust control measures should be adopted during the disturbance of silica, including those outlined within the Occupational Health and Safety Branch of the Ontario Ministry of Labour <i>Guideline: Silica on Construction Projects</i>.</p> <p>Worker exposure to silica is regulated under <i>Ontario Regulation 490/09 – Designated Substances</i>, as amended.</p> <p>Refer to Section 6.4 for additional recommendations on materials suspected of containing silica.</p>

Table II: Summary of Findings and Recommendations for Designated Substances and Hazardous Materials Observed		
Designated/ Hazardous Substance	Findings	Recommendations
Halocarbons	Halocarbons are suspected to be present in select pieces of equipment as outlined within Section 5.13 below	<p>The handling, transport and disposal of halocarbons is governed by the following:</p> <ul style="list-style-type: none">• Federal Halocarbon Regulations (FHR), 2003,• Ozone-depleting Substances and Halocarbon Alternatives Regulations, 2016,• Environmental Code of Practice for Elimination of Fluorocarbon Emissions from Refrigeration and Air Conditioning Systems, 2015,• O.Reg. 463/10, Ozone Depleting Substances and Other Halocarbons, and• Transport of Dangerous Goods Act. <p>When halocarbon-containing equipment is taken out of service, the halocarbons must be captured and reclaimed by a certified service technician using methods and containers that are designed to contain the halocarbon. The service technician must provide written acknowledgement of the requirements of the FHR. Appropriate records of service technician certification and records of equipment decommissioning must be provided and maintained in accordance with requirements of the FHR.</p> <p>Refer to Section 6.6 for additional recommendations for halocarbons.</p>

Table II: Summary of Findings and Recommendations for Designated Substances and Hazardous Materials Observed		
Designated/ Hazardous Substance	Findings	Recommendations
PCBs	Light fixtures were observed to be comprised of T8 lamp tubes, where the ballasts associated with these light fixtures are not suspected to contain PCBs. Prior to removal and as a due diligence measure, all ballasts should be inspected to confirm PCB content. Refer to Section 5.12. for additional details	<p>Although PCBs are not suspected to be present associated with T8 light fixture ballasts, as a due diligence measure and prior to removal or disposal, the PCB content of equipment should be confirmed to determine proper procedures to be followed. When the fluorescent light fixtures are taken out of service, these ballasts should be examined to determine whether they contain PCBs. This can be done by comparing the manufacturer date codes stamped on the ballasts to information contained in the document titled <i>Identification of Lamp Ballasts Containing PCBs</i>, published by Environment Canada. Ballasts that contain PCBs must be packaged, transported and disposed of in accordance with all appropriate provincial and federal regulations.</p> <p>Refer to Section 6.5 for additional information.</p>

Table II: Summary of Findings and Recommendations for Designated Substances and Hazardous Materials Observed		
Designated/ Hazardous Substance	Findings	Recommendations
Mould	Suspected Mould was observed on select pipe insulation, as outlined in Section 5.14	<p>Currently, there are no regulations pertaining to mould on construction projects. Most jurisdictions have issued alerts or bulletins concerning the hazard of mould in indoor environments. The Canadian Construction Association (CCA) published the following document as a response to concerns in the construction industry: <i>CCA 82-2018, "Mould Guidelines for the Canadian Construction Industry", 2018</i>. The Guideline recommends Level 1, 2 and 3 mould abatement procedures for small (<1 m²), medium (1 m² to 10 m²) and large scale (>10 m²) mould abatement operations that are to be determined by professionals based on the extent and density of mould on site.</p> <p>Refer to Section 6.7 for additional information.</p>
Other Hazardous Materials	Miscellaneous maintenance oils and chemicals were observed in maintenance areas of the building. Foam glass insulation is also present. See Section 5.15	<p>The handling and use of these materials should be undertaken by those with proper training (e.g. Workplace Hazardous Materials Information System, etc.) and adhere to any applicable guidelines and/or regulations.</p> <p>The transport and disposal of chemical waste is governed by O. Reg. 347/90 – General – Waste Management, as amended, the Federal TDGA and the Ontario Dangerous Goods Transportation Act.</p> <p>Refer to Section 6.8 for additional information.</p>

The Executive Summary should be read in conjunction with and is subject to the limitations outlined in Section 7.0 of this report.

DESIGNATED SUBSTANCE REPORT -Rev A

301 Wellington Street
Ottawa, Ontario

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Appendix A	Floor Plans with Sample Locations (DST 2016, 2020 & Gap Analysis 2020)
Appendix B	Sample Results Tables – Bulk Asbestos (DST 2016, 2020, 2021), Lead (2020, 2021)
Appendix C	Laboratory Certificates of Analysis – Bulk Asbestos, Lead (2020, 2021)
Appendix D	Select Photographs
Appendix E	Asbestos Containing Materials Database

List of Tables (as included in Appendix B)

Table 1A/B/C/D	Summary of Bulk Samples Analyzed for Asbestos (DST 2016, 2020, 2021)
Table 2	Summary of Bulk Samples Analyzed for Lead (DST 2020, 2021)
Table 3	XRF Data (Pinchin 2012)

1.0 INTRODUCTION

DST Consulting Engineers Inc. (DST), a Division of Englobe Corporation, was retained by Public Services and Procurement Canada (PSPC) to provide a Designated Substance Report (DSR) for the Supreme Court of Canada (SCC), located at 301 Wellington Street in Ottawa, Ontario.

The DSR scope of work included the assessment for the presence of the 11 Designated Substances, as identified in the Ontario Occupational Health and Safety Act. This report is based upon the findings of a non-destructive survey program.

Designated Substances, as identified under the Ontario Occupational Health & Safety Act, are as follows:

- Acrylonitrile,
- Arsenic,
- Asbestos (both friable and non-friable),
- Benzene,
- Coke Oven Emissions,
- Ethylene Oxide,
- Isocyanates,
- Lead,
- Mercury,
- Silica, and
- Vinyl Chloride.

Other Hazardous Materials, which are not classified as Designated Substances, but were included as part of the DSR scope of work include the following:

- Polychlorinated Biphenyls (PCBs),
- Halocarbons,
- Mould, and
- Other Hazardous Materials.

2.0 REGULATORY REQUIREMENTS

The Ontario Occupational Health and Safety Act, Section 30. (1), stipulates 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. The Canada Labour Code also stipulates under *Part II, Section 124* that every employer shall ensure that the health and safety at work of every person employed by the employer is protected. This is accomplished with the completion of a designated substance report.

Designated Substances refer to the 11 chemical or physical agents specified in the Act that are regulated by *Ontario Regulation (O.Reg.) 490/09 - Designated Substances*, as amended. This regulation contains information with respect to employer duties, applicable assessment and control programs and worker exposure limits.

2.1 Asbestos

Asbestos is one designated substance and is specifically governed in federal buildings by the *Canada Occupational Health and Safety Regulations (COHSR)*, *PSPC Asbestos Management Standard*, and in the province of Ontario by the *Occupational Health and Safety Act – O.Reg. 490/09, as amended*, and *O.Reg. 278/05, entitled “Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations, as amended (O.Reg. 278/05)*. These documents include types of abatement operations and their measures and procedures, applicable respirator usages, instruction and training requirements, asbestos work reports and workers register, provision of equivalent measures, notice to inspector requirements, and bulk and air sampling requirements. As per O.Reg. 278/05 an asbestos-containing material in Ontario is defined as a material that contains 0.5% or more asbestos by dry weight.

2.2 Lead

With regards to lead in paint, although the Ontario Ministry of Labour (MoL) has published a guideline for control of lead exposures on construction projects in Ontario, it does not include criteria for the classification of lead-paint. Instead, it uses presumed airborne lead concentrations for specific tasks as criteria for classifying work. However, in regulations set by the United States (U.S.) Department of Housing and Urban Development, Lead-Based Paint is classified as any paint application containing at least 1.0 milligrams of lead per square centimetre of surface area (1.0 mg/cm²), or at least 0.5% lead content by weight [(5,000 parts per million (ppm))]. This criterion was widely, although not universally, used in Canada. In Canada, the Federal Canada Consumer Product Safety Act has lowered the allowable concentration of lead in paints for new consumer products to 0.009% lead content by weight (90 ppm). For the purposes of this survey and report, paints having lead concentrations above 90 ppm are considered to be lead-containing.

2.3 Waste Management

The disposal of designated substances is regulated under the *Ontario Environmental Protection Act*, specifically *O. Reg. 347/90, General – Waste Management*, as amended. The regulation details the minimum requirements for the appropriate transport and disposal of wastes, including acceptable Leachate Quality Criteria (Toxicity Characteristic Leaching Procedure – TCLP).

3.0 BACKGROUND INFORMATION REVIEW

Prior to the commencement of field work, DST project personnel reviewed past bulk sampling documentation, as pertinent to the building. As part of the project, DST reviewed the following reports:

- Asbestos-Containing Material Assessment, The Supreme Court of Canada, 301 Wellington Street, Ottawa, Ontario. Prepared by DST Consulting Engineers Inc. (DST File No.: GV-OT-025657). Dated March 30, 2016.
- Building Condition Report, Supreme Court Ottawa (PWGSC/TPSGC P400002F). Dated July 8, 2011.
- Survey of Asbestos-Containing Materials, Supreme Court of Canada, 301 Wellington Street, Ottawa, Ontario. Prepared by Decommissioning Consulting Services (DCS) Limited (Project 45030). Dated March 2008.
- Quantitative Asbestos Building Material Survey, Supreme Court of Canada, Wellington Street, Ottawa, Ontario. Prepared by Greenough Environmental Consulting Inc. (Project No. 20738). Dated March 14, 2002.
- Project-Specific Designated Substances Survey, Various Gaps Repairs on the Masonry and Front Steps Project. Prepared by DST Consulting Engineers Inc. (DST File No.: GV-SO-022339). Dated January 8, 2016.
- Project-Specific Designated Substances Survey, Window and Bronze Door Repair Project. Prepared by DST Consulting Engineers Inc. (DST File No.: GV-OT-026933). Dated September 7, 2020.
- Hazardous Building Materials Assessment, Supreme Court of Canada, 301 Wellington Street, Ottawa Ontario. Prepared by Pinchin Environmental. (Pinchin File No.: 71164). Dated February 29, 2012.
- Various additional historical documentation and as-built drawings provided by PSPC.

DST referenced the identifiable sampling and analytical results of the above-noted documentation, where applicable. As such, materials already identified as asbestos-containing or non-asbestos containing in previous documentation were not re-sampled by DST as part of this project specific survey. DST collected bulk asbestos or lead samples of any additional materials not previously identified as part of the survey.

4.0 METHODOLOGY

4.1 Scope of Work

The scope for this project, as requested by PSPC, included the following two phases of work:

- Phase 1 consisted of a historical document review and gap analysis; and
- Phase 2 included a non-destructive DSS and report completed by DST.

In general, the DSR included the following tasks by DST:

- Review, compile and summarize past/existing pertinent data for the building with respect to designated substances;
- Conduct a data gap analysis investigation and sampling (as required) for any additional materials suspected of containing designated substances (e.g. asbestos, lead) or other hazardous materials not previously identified;
- Collect and analyze the required number of additional suspect ACM samples to satisfy the requirements of O.Reg. 278/05 (as amended) where applicable;

- At the request of PSPC, complete supplemental bulk delineation sampling for select materials;
- Confirm the Location, quantity, and condition of identified asbestos-containing building materials; and
- Collect sufficient information to subsequently enable DST to identify designated substances and hazardous materials, including the Location and quantities of asbestos-containing materials and provide abatement costing for future project consideration.

4.2 Site Assessment

DST conducted the site visit for The Supreme Court on select days in January and February 2020. DST returned in May 2020 to complete a roof investigation with a qualified roofing contractor. DST returned again in October 2020 to complete a supplemental gap analysis survey for drywall and plaster materials throughout the building. DST return one final time in January 2021 to sample structural steel paint and marble mortar at PSPC's request.

During the site visits, DST conducted a non-destructive room-by-room survey of the subject building (as accessible) to identify observable and readily accessible designated substances and hazardous materials. Although attempts were made by DST to examine concealed conditions, a destructive survey was not completed to examine concealed conditions, or to identify materials that may be present beneath or behind existing interior and/or exterior solid wall, ceiling, flooring materials, or roofing materials. DST was also not provided with project-specific drawings and details or provided with information with respect to future work operations, or material Locations to be removed or disturbed, associated with the future rehabilitation project. Floor coring assessments were not completed as part of this survey. The steam tunnel(s) servicing the subject building were not included in the scope of work for the survey.

Materials suspected of containing designated substances and other hazardous materials were visually identified, based on the surveyor's knowledge of the historic composition of building products. Visual identification of materials suspected to contain asbestos or lead (in paint) was supported by the collection and analysis of a limited number of representative samples. Materials suspected of containing designated substances other than asbestos or lead (in paint) were identified by appearance, age, and knowledge of historic applications.

Materials previously confirmed to contain regulated amounts of asbestos were surveyed to confirm location, quantity and condition. Additional materials (previously concealed or unobserved) suspected of containing designated substances and other hazardous materials were visually identified and sampled based on the surveyor's knowledge of the historic composition of building products. Destructive investigation was completed on carpeted areas to confirm the presence and extent of ACM flooring materials. Carpets were reinstated to their original condition by DST personnel.

Floor plans outlining sampling locations are included in Appendix A (DST 2016 & 2020). Supplemental bulk samples collected in October are included in Appendix A (Supplemental

Asbestos bulk sampling locations 2020). The sample results for asbestos in bulk materials and lead (in paint) are included in Appendix B (DST 2016, 2020, & 2021). Laboratory certificates of analysis are included in Appendix C (DST 2020, 2021). Select photographs are included in Appendix D. An asbestos containing materials database is included in Appendix E.

4.2.1 Asbestos-Containing Material Methodology

The methodology employed for ACMs included identifying the presence of friable and non-friable ACMs via the collection and analysis of suspect bulk material samples. The collection of bulk material samples was performed in accordance with the sampling procedures outlined in O.Reg. 278/05, as amended. O.Reg. 278/05, Table 1, stipulates the minimum number of bulk asbestos samples that must be collected and analyzed based on the quantity, application, and friability of each material.

ACMs can be divided into two categories: friable and non-friable material. A friable ACM is a material that can be crumbled, powdered, or pulverized by hand pressure and can readily release fibres when disturbed. Common applications of friable ACMs are sprayed or trowelled surfacing materials (e.g., sprayed fireproofing and textured coatings) as well as mechanical and thermal insulation. Non-friable materials are materials that will generally release fibres only when cut or shaped. Common non-friable ACMs include vinyl floor products, drywall joint compound, plaster, asbestos textile products and asbestos cement products (transite). Some of these products may become friable with time or when disturbed.

Bulk samples of suspected ACMs collected by DST were analyzed for their asbestos content at Paracel Laboratories (Paracel). The bulk asbestos samples were analyzed using Polarised Light Microscopy (PLM). This analytical method complies with the United States Environmental Protection Agency (U.S. EPA) Method 600/R-93/116 dated July 1993, which is the regulatory approved protocol for bulk asbestos analysis in Ontario. The laboratories followed a “positive-stop” analysis methodology for select samples and stopped analyzing a sample set if any one of the series of samples proved to be positive for the presence of asbestos.

4.2.2 Lead-Containing Material Methodology

Bulk samples of suspected lead-containing materials collected by DST were analyzed at Paracel Laboratories LTD. The samples were analyzed using MOE E3470, Inductively Coupled Plasma – Optical Emission Spectrometry (ICP-OES).

4.2.3 PCB-Containing Equipment Methodology

Equipment that may contain PCBs (e.g., electrical transformers and fluorescent light ballasts) can often be identified by examining manufacturer’s labels. For safety reasons, DST personnel do not remove the ballast shields from fluorescent light fixtures to examine the ballast codes unless the electrical circuit for the lighting had been tagged and locked out by a qualified electrician. When possible, the manufacture name and catalogue number is recorded. Where not clearly labelled as “Non-PCB”, the information presented on the ballast labels can be compared with the Environment Canada document entitled “Identification of Lamp Ballasts Containing PCBs

(Revised August 1991)” to confirm PCB content, or assumed to contain PCBs, as applicable. An extensive PCB survey and inventory was not completed as part of DST’s scope of work.

4.2.4 Halocarbon-Containing Equipment Methodology

Equipment that may contain halocarbons (e.g., air conditioning and refrigeration equipment) can often be identified by examining manufacturer’s labels. The investigation of halocarbons was performed through the identification of equipment requiring refrigerants as part of the room-by-room survey process followed by an evaluation for labels on the equipment (indicating the type of refrigerant present). A detailed halocarbon inventory was not completed as part of DST’s scope of work.

4.2.5 Other Designated Substances and Hazardous Materials Methodology

The methodology for the identification of other Designated Substances and hazardous materials followed the same visual evaluation methodology as the investigation for asbestos and lead in surface coatings. During the survey, other identified Designated Substances were visually identified based on the surveyor’s historical knowledge of these substances. These substances/materials were identified, and Locations noted, as deemed applicable.

5.0 FINDINGS

The following sections outline the findings of designated substances and hazardous materials assessed at 301 Wellington Street.

5.3 Asbestos

The following subsections outline the consolidated asbestos findings from the designated substances surveys completed by DST. Findings are based on observations made during the site visits carried out in January, February, October 2020, and January 2021, and historically in the March 2016 Asbestos Reassessment Survey and other historical findings. A summary table of bulk material samples collected by DST is included in Appendix B.

5.3.1 Asbestos-Containing Materials

Based on historical data, visual observations and laboratory analysis, the following asbestos-containing materials were identified in The Supreme Court of Canada at 301 Wellington Street:

Plaster Materials (Non-Friable when intact and in good condition)

Based on a review of available historical asbestos surveys completed by past consultants and provided to DST by PSPC, as well as bulk sample data obtained by DST (2016 and 2020), plaster materials have been confirmed to contain regulated amounts of asbestos in the following sample locations:

- Sub-basement, Room 0079 (Sample 316A, DCS, 2008) contains 0.8% Chrysotile;
- 3rd Floor, Room 312 (Sample 25657-04A, DST 2016) contains 1% Chrysotile;

- 1st Mechanical Floor (Sample 25657-27A, DST 2016) contains 1% Chrysotile;
- 1st Floor, Room 136 (Sample 25657-33A, DST 2016) contains 1% Chrysotile;
- Plaster debris sampled from the sub-basement, Northwest corridor, Location 94 contains 1% Chrysotile (Sample 040333-99, DST 2020);
- Basement Locations in Room 045 (Location 45), Room 040 (Location 43), Northeast stairwell (Location 69), and the East corridor (Location 79) contain 1% Chrysotile asbestos in the smooth and rough layers (Samples 040333-82A,B,D,E,F,G), DST 2020);
- 1st floor Locations on the Southwest stairwell (Location 157), Room 194/195 (Location 175), Room 166 (Location 181), and the Kitchen (Location 182) contain 0.5-1% Chrysotile (Sample 040333-111B-G, DST 2020);
- 2nd floor, Janitor's closet room 250 (wall and ceiling), Location 245 contains 1% Chrysotile asbestos (Sample 040333-series 139, DST 2020);
- Sub-Basement Stairwell STSBA2, Location 25 (mislabelled as drywall during initial sampling 40333-72D) contains 1% Tremolite (Sample 040333-STSBA2-01A, DST 2020); and
- Ground floor room 32 (wall and ceiling), 61D, 56C (Wall), and 83B contain 1% Chrysotile asbestos (Samples 040333-PINK(G)-01A-C, 040333-GRN(G)-01A-C, 040333-PURPLE(G)-01A-C, DST 2020).

Based on the confirmed presence of regulated amounts of asbestos in plaster material samples collected within different areas of SCC on each floor, DST is of the opinion that all plaster materials, where present (walls, ceilings, columns etc.) should be assumed to contain asbestos, unless proven otherwise by additional delineation (e.g. extensive bulk sampling and laboratory analyses, or on a case-by-case basis via appropriate bulk sampling and laboratory analysis). Approximate quantities of plaster on a per floor basis are outlined in the database provided in Appendix E.

Locations at which non-asbestos plaster (smooth layer over rough layer) was sampled are as follows.

- Plaster sampled from the walls and ceilings in several locations of the ground floor (DST 2020, Sample 040333-series 105);
- Plaster sampled from the wall in the 1st mechanical penthouse, Location 189 (DST 2020, Sample 40333-series 121);
- Plaster sampled from the walls of the 3rd floor room 368 kitchen (Location 192), 3rd floor hallway 391 (Location 194), and the 3rd floor south corridor behind the main library (Location 213) (DST 2020, Sample 40333-series 124);
- Plaster – white layer only - sampled from the North corridor in the basement (DST 2020, Sample 40333-GRN(B)-series 02);
- Plaster sampled from the walls in the basement room 084 (DST 2020, Sample 40333-PINK(B)-series 02);
- Plaster sampled from the walls in the ground floor rooms 87E, 82E, and stairwell STG5 (DST 2020, Sample 40333-ORG(G)-series 01);

- Plaster sampled from the walls on the 2nd floor rooms 230C, 272A, 286C, 283A, 229C (DST 2020, Sample 40333-GRN(2)-series 01); and
- Plaster sampled from the walls in the 3rd floor CR3N corridor (DST 2020, Sample 40333-LTGRN(3)-series 02).

Although plaster sampled at the above locations was negative for asbestos content, sampling on the same floors from which the above plaster samples were collected has indicated the presence of asbestos-containing plaster. Given this and the sporadic nature of positive plaster sample results for asbestos content throughout the building, all plaster should be considered asbestos-containing and treated accordingly. Alternatively, additional plaster sampling for asbestos content on a disturbance/project-specific basis satisfying federal/provincial/territorial regulations could be performed to determine/delineate asbestos content in plaster in a defined area.

It should be noted that in many building areas, drywall materials and/or other building materials (wood paneling, marble, etc.) are or may be installed overtop of asbestos-containing plaster materials. As such, plaster materials may be concealed in many building areas and not readily apparent without destructive/intrusive investigation.

Rough Plaster (Non-Friable when intact and in good condition)

Select ceilings in the sub-basement were observed to be comprised of a rough plaster material (light grey and dark grey layers). This material was confirmed to contain 1-3% Chrysotile asbestos (Sample 01A, 06, DST 2016 – project-specific DSR).

It was reported to DST by PSPC, that subsequent to the 2016 DST field program rough ceiling plaster, and associated debris had been abated from Rooms 0008, 0009, and 0010.

Pipe Insulation Materials (Straight Runs and Fittings - Friable)

The following pipe insulation materials were confirmed to contain regulated amounts of asbestos:

- Magblock pipe insulation, located throughout the building contains 25% Chrysotile asbestos (Greenough 2002);
- Aircell pipe insulation, located throughout the building contains 12-75% Chrysotile asbestos (Greenough 2002, DCS 2008);
- Anti-sweat/layered cardboard wrap pipe insulation located throughout the building contains 0.65-6.19% Chrysotile asbestos (Sample 25657-31A and Sample 25657-34A, DST 2016);
- Pipe fitting insulation – grey cement compound, located throughout the building contains 10-75% Chrysotile asbestos (Greenough 2002, DCS 2008).

It should be noted that mechanical piping systems, including, but not limited to, hot water heating lines (radiator lines), steam and condensate lines, and domestic hot and cold lines were observed to have either fiberglass or asbestos-containing insulation. Where accessible, these insulations were differentiated and appropriately identified within the Database of Asbestos-Containing Materials within Appendix E. Where the type of piping insulation could not be determined (e.g. due to lack of physical access), the insulations have been conservatively assumed to be asbestos-containing.

Note that where identified, asbestos-containing pipe insulation consists of mag block, aircell, layered cardboard wrap, grey cement compound, or a combination of these materials.

Pipe runs and risers are generally present and concealed behind solid building material wall and ceiling finishes (e.g. drywall, plaster, terracotta, brick etc.). Removal of solid building material finishes would be required to access and remove a significant quantity of concealed and inaccessible asbestos-containing pipe insulation materials on most floors. As such, the exact location and quantity of all concealed asbestos-containing pipe insulation is generally unknown due to concealed conditions.

Historic abatement projects within the subject building included the presence of asbestos-containing pipe insulation inside ventilation ducts. A comprehensive duct/HVAC inspection could not be performed as part of this survey. Asbestos-containing piping insulation is suspected present concealed within ventilation ducts within the building.

DST has noted the presence of asbestos-containing pipe insulation materials in Appendix E, where visually identified on a room-by-room basis. This list should not be considered absolute given piping insulation is assumed to be concealed in many building areas.

Ductwork Insulation (Friable)

- The air handling units and associated ductwork in the select mechanical rooms/building areas (Sub-basement - Room 0017, Room 0011, Room 0010, Room 0039 and the catacombs area) were observed to be insulated with an asbestos-containing parging layer over fiberglass. This material was confirmed to contain 20-30% Chrysotile asbestos (Greenough 2002).
- A section of ductwork in the sub-basement, Room 008, upper mezzanine, was observed to be insulated with a horse-hair type insulation with an asbestos parging. This insulation was labelled as a product by Johns Mansville, entitled "Airacoustic". This material was confirmed to contain 16.10- 25% Chrysotile asbestos (Greenough 2002, DCS 2008).

Wall Parging - Grey Cement Compound (Friable)

- Rough coat parge patch sampled from the wall in the sub-basement northeast corridor, room 0020, Location 8, was confirmed to contain 1% Tremolite asbestos (Sample ID 040333-series 66, DST 2020);
- Wall parging on the walls of the Judges elevator shaft/pit walls, Location C were confirmed to contain 1% Chrysotile asbestos (Sample ID 040333-series 146, DST 2020);
- The wall material that comprises the supply and exhaust plenums adjacent to/surrounding Room 0039, Sub-basement, was observed to be comprised of a grey cement compound parging material, containing 54% Chrysotile asbestos (DCS, 2008).
- Wall materials comprised of grey cement compound parging were also identified by DST in select areas of the catacombs (north) below the sub-basement (accessible via ramps in Rooms 0021 and Room 0020). Representative bulk samples of this material collected by DST confirmed this material as containing 40% Chrysotile asbestos (Sample 25657-49A, DST 2016).

Ceiling Stipple/Texture Coat (Friable)

- Ceiling stipple/texture coat finishes were confirmed to contain 0.75-4% Chrysotile asbestos (DCS, 2008). Ceiling stipple was observed in select rooms/areas throughout the basement level of the building. All instances of ceiling stipple should be assumed to contain asbestos, where present, unless proven otherwise on a case-by-case basis via bulk sampling and laboratory analysis. Areas of asbestos-containing stipple are outlined in the database provided in Appendix E.

Fibrous Board – Radiator Assemblies (Friable)

- A white fibrous board was observed concealed within the internal area of radiator assemblies throughout the building. This material was confirmed to contain 15% Amosite asbestos (Sample ID 040333-series 92, DST 2020). A parging material sampled from behind one of the radiators was also confirmed to contain 5% Chrysotile asbestos (Sample ID 040333-

Series 138, DST 2020). As such, all radiators throughout the building should be assumed to contain an asbestos-containing fibrous board and associated piping concealed within the internal area of the radiator assembly.

Drywall Joint Compound (Non-Friable)

- Drywall joint compound sampled from sub-basement room 0098, Location 259 contains 1% Chrysotile asbestos (white layer) and 2% Chrysotile (beige layer). (Sample ID 040333-72D, E DST 2020 respectively);
- Drywall joint compound sampled from the wall in basement room 015, Location 33 contains 1% Chrysotile asbestos (Sample ID 040333-79B DST 2020);
- Drywall joint compound sampled from the walls in sub-basement room 0099 and 0096 were confirmed to contain 1% Chrysotile asbestos (Sample ID 040333-GRY(SB)-01C,D, DST 2020);
- Drywall joint compound sampled from the bulkhead in basement room 018 (040333-BLU(B)-01B) contain 1% Chrysotile asbestos;
- Drywall joint compound sampled from the wall in basement room 021 (Sample ID 040333-ORG(B)-01B) contain 1% Chrysotile asbestos;
- Drywall joint compound sampled from the wall in basement room 098K (040333-GRN(B)-01A and C) contain 1% Chrysotile asbestos; and
- Drywall joint compound sampled from the wall in basement corridor (south of STB3) and room 070 (Sample ID 040333-PINK(B)-01D,G) contain 1% Chrysotile asbestos.

Based on the confirmed presence of regulated amounts of asbestos in drywall joint compound samples collected within different areas of the basement and sub-basement of SCC, DST is of the opinion that all drywall materials on the sub-basement and basement floors, where present (walls, ceilings, columns etc.) should be assumed to contain asbestos-containing joint compounds, unless proven otherwise by delineation (e.g. extensive bulk sampling and laboratory analyses, or on a case-by-case basis via appropriate bulk sampling and laboratory analysis). Approximate quantities of drywall with asbestos-containing joint compounds on a per floor basis are outlined in the database provided in Appendix E. Locations at which non-asbestos drywall joint compounds were sampled are presented in Section 5.3.3.

Vinyl Floor Tiles/Mastics (Non-Friable)

The following vinyl floor tiles and/or associated mastics have been confirmed to contain regulated amounts of asbestos:

- 12"x12" (30 cm x 30 cm) vinyl floor tiles, white with grey stripes, former elevator lobby, Room 042 concealed under new vinyl sheet flooring materials, contains 1.6% Chrysotile asbestos (Sample 209A, DCS, 2008).

- 12"x12" (30 cm x 30 cm) vinyl floor tile, beige, basement, Room 078, Telephone Room, contains 2.2% Chrysotile asbestos. In addition, the floor tile mastic associated with this floor tile contains 0.5% Chrysotile asbestos (Sample 25657-47A, DST 2016);
- 12"x12" (30 cm x 30 cm) vinyl floor tile, beige with beige streaks, basement, Room 086, vault, contains 1.48% Chrysotile. In addition, the floor tile mastic associated with this floor tile contains 0.83% Chrysotile asbestos (Sample 25657-48A, DST 2016);
- Floor mastic associated with 2'x2' (60 cm x 60 cm) grey with white streaks, and black with white streak vinyl flooring, located in the basement, entryway to sub-basement mechanical room (north mezzanine catwalk of sub-basement mechanical Room 003), contains 0.56% and 0.6% Chrysotile asbestos respectively (Samples 25657-39A and 25657-40A, DST 2016);

It should be noted that at the time of the site investigation, carpeting was present within many office spaces/areas of the building. Although attempts were made by DST to look beneath representative carpet flooring materials, access was severely limited as damage to the carpeting was not permitted and the building was occupied at the time of the survey. Similarly, old floor finishes may be present under current floor finishes that may not have been accessible or visible at the time of the site survey.

Miscellaneous Materials (Non-Friable)

- Mortar associated with stone wall/column panels in the 3rd Floor Sitting Area, adjacent to the Room 312, contains 1% Chrysotile asbestos (Sample 25657-02A, DST 2016);
- Textured/cementitious wall coat in the 3rd Floor library closet area, adjacent to Room 309 and across from the 3rd Floor Library main desk, contains 1% Chrysotile asbestos (Sample 25657-13A, DST 2016);
- Cementitious parging, applied to the roof deck/structure above the 3rd Floor Library, contains 1% Chrysotile asbestos (Sample 25657-16A, DST 2016);
- Tar material, observed between the joints of pre-cast cementitious roofing panels throughout the 1st Mechanical floor contains 26.28% Chrysotile asbestos (Sample 25657-18A, DST 2016);
- Mortar in the joints of the Yellow Block wall, observed throughout the sub-basement and Basement levels contains 1% Chrysotile asbestos (Sample 25657-36A, DST 2016);
- Tar applied to the asbestos-containing wall parging, grey cement compound, in the catacombs area (north) contains 28.62% Chrysotile asbestos (Sample 25657-50C, DST 2016);
- Brown duct mastic sampled from inside AHU unit #11 in sub-basement room 0010, Location 16 contains 2% Chrysotile asbestos (Sample ID 040333-series 71, DST 2020);
- Grey/Brown caulking sampled from inside an AHU unit 1 2 and 4 in the Sub Basement central mechanical room, Location 10 was confirmed to contain 2% Chrysotile asbestos (Sample ID 040333-series 78, DST 2020). This caulking was observed in several AHU units and should be assumed present in every unit unless further testing proves otherwise.;

- Black caulking sampled from the duct hatch in the sub-basement room 0088 mezzanine, Location 263 was confirmed to contain 8% Chrysotile asbestos (Sample 040333-series 141, DST 2020);
- Grey cementitious parging applied to the roof hatch above room 342 and 345, Location 230 contains 1% Chrysotile asbestos (Sample 040333-series 142, DST 2020).

Exterior

- Black putty sampled between the metal frame components and the glass on the exterior East elevation G window contains 2.81% Chrysotile asbestos (Sample 026933-05A, DST 2016); and
- White putty sampled between the metal frame components and the glass on the exterior North elevation F window contains 0.91% Chrysotile asbestos (Sample 026933-07A, DST 2016).

It was reported that some repairs have been made to some windows within the building, and that any associated asbestos-containing window caulking would have been removed and replaced with presumably non-asbestos window caulking. As a precaution, all window caulking should be considered asbestos-containing unless further investigation on a case by case basis is performed to conclude otherwise.

5.3.2 Suspected Asbestos-Containing Materials

The following materials are suspected to contain asbestos, until proven otherwise by bulk sampling and laboratory analysis:

- Cast iron drainpipe joint caulking. Samples were not collected in order to avoid compromising the integrity of the caulking seal;
- 1'x1' (30 cm x 30 cm) Ceiling tiles and any associated mastic, observed in the Ground Floor east and west Federal Courtrooms are suspected to contain asbestos. These ceiling tiles could not be sampled due to height;
- 1'x1' (30 cm x 30 cm) Ceiling tiles and any associated mastic, observed in the 1st Floor, Supreme Court Courtroom are suspected to contain asbestos. These ceiling tiles could not be sampled due to height;
- Ceiling tile mastic associated with non-asbestos containing 1'x1' Ceiling tiles for select areas (ceiling tile is non-ACM per DCS 2008). DST could not confirm the fastening system/materials by which select ceiling tiles are adhered. As such, ceiling tile mastic suspected to contain asbestos may be present in the following locations: Ground Floor – Room 55, 95, Lobby area adjacent to Rooms 33/34, 1st Floor - Room 190, 195, 2nd Floor – Room 295;
- Internal components/linings of fire doors and safe/vault doors,
- Asbestos cement/Transite board, assumed to contain asbestos, was observed in the parking garage wash bay, Location 102,

- Mastic or mortar pucks concealed behind the marble slabs,
- Roofing materials not sampled in May 2020, including any layers beneath copper,
- Foam glass insulation was noted at a wall penetration in the Sub-basement (See Section 5.15). Historically, asbestos-containing tar has been associated with the seams of this insulation. The insulated pipe could not be accessed for further investigation. Any foamglass impacted by asbestos-containing black tar must be handled and disposed of as asbestos.

5.3.3 Non-Asbestos Containing Materials

The following materials were confirmed to not contain regulated amounts of asbestos based on limited observations and sampling performed by DST (2016, 2020) and/or past consultants:

Flooring Materials and associated Mastics, Leveling Compounds

- Vinyl sheet flooring, sub-basement corridors (Outside Room 0088) (DSC 2008, Samples 201A-C);
- Rubber sheet flooring, light brown with streaks in the Printing Room, Room 0092, Sub-basement (DCS 2008, Samples 202A-C);
- Cementitious floor fill, 3rd Floor, Room 336 (DST 2016 Samples, 25657-09A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, brown, Room 0093, Sub-basement (DCS 2008, Samples 204A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, black with white dots, Sub-basement, Room 0089, Stacks 1 (DCS 2008, Samples 206A-C). This floor tile was also observed in the Stacks 2 library area, and north-west elevator lobbies on all floors;
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, beige, PSPC Technician Office Areas, Rooms 002-004, Sub-basement (DCS 2008, Samples 207A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, dark grey, first aid office, Room 018, Basement (DCS Samples, 208A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, pinkish brown with brown and black swirls, basement, northwest stairwell (DCS 2008, Samples 210A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, green, upper level of sub-basement Room 003/entryway to sub-basement (DCS 2008, Samples 216A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, off-white with black and grey flecks, Security Office, Room 066, Basement (DCS 2008, Samples 217A-C);
- Cementitious floor fill, beneath cork panels, 1st Mechanical Floor (DST 2016, Samples 25657-20A-G);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, pink and associated mastic, 3rd Floor, Lunch Room, Room 374. (DST 2016, Samples 25657-23A-C);
- Vinyl sheet flooring, light orange with swirls, rear of Printing Room, Room 0092b, Sub-basement (DCS 2008 Samples 203A-C);
- Carpet mastic (DST 2016, Samples 25657-07A-C)
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, grey with streaks and associated mastic, Storage Room 360, 3rd Floor (DST 2016 Samples 25657-24A-C);

- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, grey with grey streaks and associated mastic, Kitchen, Room 368, 3rd Floor (DST 2016 Samples 25647-25A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, beige, Room 136, 1st Floor (DST 2016 Samples 25657-32A-C);
- Cementitious floor fill, Room 0047, Sub-basement (DST 2016, Samples 25657-51A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, grey, collected from parking garage, west storage room (DST 2016 Samples 25657-53A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, beige and associated mastic, Room 021, Basement (DST 2016 Samples 25657-56A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, grey, observed in hut on East side of parking garage (DST 2016 Samples 25657-60A-C);
- 12"x12" (30 cm x 30 cm) Vinyl floor tiles, light brown with black and brown flecks, and associated mastic, 2nd Floor, southwest corner stairwell 221 (DST 2016 Samples 25657-61A-C). This floor tile was also identified in select rooms throughout the building;
- 2' x 2' (60 cm x 60 cm) Vinyl floor tiles, White marble pattern and associated yellow mastic, Basement Room 019, Location 54 (Sample 040333-Series 85, DST 2020);
- Grey leveling compound, sampled from the basement west office area, Location 56 (Sample 040333-series 86, DST 2020);
- Ceramic tile grout sampled from the floor of the basement women's washroom 069, Location 57 (Sample 040333-series 87, DST 2020);
- Grey vinyl sheet flooring sampled from the basement, East corridor, Location 79 (Sample 040333-series 93, DST 2020);
- Grey caulking associated with marble sampled from the basement East security sign in lobby, Location 80 (Sample 040333-series 95, DST 2020);
- 12" x 12" (30 cm x 30 cm) vinyl floor tiles, blue with blue flecks sampled from the sub-basement room 0052, Location 91 (Sample 040333-series 97, DST 2020);
- Tan and Grey sheet flooring and associated mastic sampled from the sub-basement north corridor, Location 94 (Sample 040333-series 98, DST 2020);
- Brown mastic associated with grey vinyl floor tiles in the parking garage storage room 0107, Location 99 (Sample 040333-series 102, DST 2020);
- Marble floor grout sampled from the 1st floor southeast stairwell, Location 155 (Sample 040333-series 112, DST 2020);
- 12" x 12" (30 cm x 30 cm) vinyl floor tile, beige with white specks and yellow mastic sampled from the 1st floor sound booth room 138, Location 173 (Sample 040333-series 114, DST 2020);
- 12" x 12" vinyl floor tiles, beige with white spots and blue spider pattern and associated black mastic sampled from the 1st floor sound booth Location 172 (Sample 040333-series 116, DST 2020);
- Cementitious floor fill patches sampled from the 2nd mechanical penthouse, Location 189 (Sample 040333-series 122, DST 2020);
- Black carpet mastic sampled from the 3rd floor room 374, Location 200 (Sample 040333-series 126, DST 2020);

- 12" x 12" (30 cm x 30 cm) vinyl floor tiles, pink with grey dots and associated black mastic sampled from the ground floor kitchen room 87, Location 128 (Sample 040333-series 136, DST 2020);
- Floor grout associated with red bricks throughout the sub-basement (DST 2020, Sample 40333-series 77); and
- Yellow carpet mastic observed throughout the building (DST 2020, Sample 40333-series 150).

Several other types of floor tiles/sheet flooring materials identified in the building were either visually homogenous to the non-asbestos materials sampled above or were identified as newer applications and not suspected to contain asbestos.

Ceiling Tiles

- 2'x2' (60 cm x 60 cm) Ceiling tiles, sub-basement corridors (Outside Room 0088) (DCS 2008, Samples 300A-C);
- 2'x4' (60 cm x 120 cm) Ceiling tiles, File Room, Room 0088, Sub-basement (DCS 2008, Samples 303A-C);
- 2'x4' (60 cm x 120 cm) Ceiling tiles, vault inside Room 0090, Sub-basement (DCS 2008, Samples 305A-C);
- 2'x4' (60 cm x 120 cm) Ceiling Tile, printing Room, Room 0092, Sub-basement (DCS 2008, Samples 307A-C);
- 2'x4' (60 cm x 120 cm) Ceiling tiles, outside Room 0090/0092, Basement (DCS 2008 Samples, 310A-C);
- 2'x4' (60 cm x 120 cm) Ceiling tiles, Room 072, Basement (DCS 2008, Samples 312A-C);
- 2'x4' (60 cm x 120 cm) Ceiling tiles, Room 086, Basement (DCS 2008, Samples 318A-C);
- 1'x1' (30 cm x 30 cm) ceiling tiles, collected from 1st floor, Rooms 190 and 195 (DCS 2008, Samples 320A-C), Room 55, Ground Floor (DCS 2008 Samples 323A-C), Room 95, Ground Floor (DCS Samples, 325A-C) and Room 295, 2nd Floor (DCS 2008, Sample 321A). However, the mastic associated with ceilings (if present) is suspected to contain asbestos (Refer to Section 6.3.2).
- 1'x1' (30 cm x 30 cm) wall tiles (pinholes), Interpreters Booth for west federal court chamber, Ground Floor (DCS 2008, Samples 326A-C).
- 2'x4' (60 cm x 120 cm) Ceiling tiles, cafeteria, Room 020, basement (DCS 2008, Samples 327A-C);
- 1'x1' (30 cm x 30 cm) ceiling tile mastic, ground floor, west federal court interpreter's booth (DST 2016, Samples 25657-45A-C).
- 1'x1' (30 cm x 30 cm) ceiling tile, small pinhole, ground floor, east federal court interpreter's booth (DST 2016, Samples 25657-46A-C);
- 2'x4' (60 cm x 120 cm) ceiling tile, deep fissures, collected from parking garage, west storage room (DST 2016, Samples 25657-52A-C);
- 2'x4' (60 cm x 120 cm) Ceiling tiles, Room 0011 and 0012, Sub-basement (DST 2016, Project Specific DSR Samples 02A-C)

- 2' x 2' (60 cm x 60 cm) textured ceiling tiles sampled from the basement East Security Sign in, Location 80 (Sample ID 40333-series 96, DST 2020);
- 1' x 1' (30 cm x 30 cm) ceiling tiles (pinhole and fleck pattern) and associated mastic pucks sampled from the ground floor sound booth, Location 111 (Sample ID 40333-series 108, DST 2020); and
- 2' x 2' (60 cm x 60 cm) ceiling tiles (random tiny pinholes pattern) sampled from the 3rd floor, room 360, Location 199 (Sample ID 40333-series 125, DST 2020).

Several types of ceiling tiles not identified above were visually homogenous to the non-asbestos materials sampled above or were visually identified as newer installations based on manufacture date code and not suspected to contain asbestos.

Spray Fireproofing

- Spray fireproofing throughout File Room, Room 0088, Sub-basement (DCS 2008, Samples 304A-C);
- Spray fireproofing, elevator lobby adjacent/across from Room 049 and northwest stairwell, Basement (DCS 2008, Samples 313A-C);
- Spray fireproofing, 3rd Floor Mezzanine Area, above Room 336 (DST 2016, Samples 25657-08A-G);
- Spray fireproofing applied to columns, ceiling of select areas of the 1st Mechanical Floor and bottom of north-west stairwell landings (DST 2016, Samples 25657-30A-E);
- Spray fireproofing, Room 021, Basement (DST 2016, Samples 25657-55A-C); and,
- Spray fireproofing sampled from the deck on the 2nd floor in EV4 – elevator lobby (DST 2020, Samples 40333-EV4-series 01).

Based on the spray fireproofing samples collected from different areas throughout the building, spray fireproofing materials do not contain asbestos.

Drywall Joint Compound

- Drywall joint compound (Greenough 2002 Samples SA-4, SA-16, SA-21);
- Drywall joint compound, north hallway, sub-basement (DCS 2008 Samples 308A-C);
- Drywall joint compound, 3rd floor (DST 2016 Samples 25657-03A-E);
- Drywall joint compound pucks on wall of 3rd Floor, south mechanical corridor (DST 2016 Samples 25657-15A-C);
- Drywall joint compound, Room 342, 3rd Floor (DST 2016 Samples 25657-22A-C);
- Drywall joint compound, 2nd Mechanical Floor (DST 2016 Samples 25657-28A-C);
- Drywall joint compound, collected from select areas of the ground floor and basement (DST 2016 Samples 25657-44A-E);
- Drywall joint compound collected from the ceiling of the sub-basement corridor 0047 (NW), Location 13 (DST 2020, Sample 40333-series 68);

- Drywall joint compound sampled from the parking garage commissionaire lounge (Location 97), storage room 0107 (Location 99) and east stairwell (Location 105) (DST 2020, Sample 40333-series 101);
- Drywall joint compound sampled from the ground floor rooms 20, 21, and Kitchen (Location 112, 120 & 128) (DST 2020, Sample 40333-series 109);
- Drywall joint compound sampled from the 1st floor rooms 120, and 194/195A/B (Location 175 and 180) (DST 2020, Sample 40333-series 115);
- Drywall joint compound sampled from the 1st mechanical penthouse Location 189 (DST 2020, Sample 40333-series 119);
- Drywall joint compound sampled from the 3rd floor Kitchen room 368 (Location 1932), Hall 391 (Location 194), room 348 (Location 202), Mezzanine corridor (Location 207), and 3rd floor hall between Location 223 and 227 (DST 2020, Sample 40333-series 123);
- Drywall joint compound sampled from the 2nd floor room 257 (DST 2020, Sample 40333-series 140);
- Drywall joint compound sampled from the walls in the sub-basement room 0010K (DST 2020, Sample 40333-GRN(SB)-series 01);
- Drywall joint compound sampled from the sub-basement stairwell walls south of the library stacks (DST 2020, Sample 40333-BLUEDASH(SB)-series 01);
- Drywall joint compound sampled from the walls in the basement room 040, 095, and 038 (DST 2020, Sample 40333-BLUEDASH(B)-series 01);
- Drywall joint compound sampled from the walls in basement room 022 (DST 2020, Sample 40333-PURPLE(B)-series 01);
- Drywall joint compound sampled from the walls and ceiling in basement WB Stairwell (DST 2020, Sample 40333 GRY(B)-series 01);
- Drywall joint compound sampled from the walls in basement room 094 (DST 2020, Sample 40333 REDDASH(B)-series 01);
- Drywall joint compound sampled from the walls on the ground floor room 20A and 21 (DST 2020, Sample 40333 GRY(G)-series 01);
- Drywall joint compound sampled from the walls on the 1st floor room 193 (DST 2020, Sample 40333 ORG(1)-series 01);
- Drywall joint compound sampled from the walls on the 1st floor room 120A and 121 (DST 2020, Sample 40333 GRY(1)-series 01);
- Drywall joint compound sampled from the ceilings on the 1st floor room 120A and 121 (DST 2020, Sample 40333 GRY(1)-series 02);
- Drywall joint compound sampled from the walls on the 2nd floor room 220B and 221A (DST 2020, Sample 40333 YLW(2)-series 01);
- Drywall joint compound sampled from the ceiling on the 2nd floor room 220B and 221A (DST 2020, Sample 40333 YLW(2)-series 02);
- Drywall joint compound sampled from the walls, bulkhead, and pillar on the 3rd floor room 310, and 309 (DST 2020, Sample 40333 DPYLW(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor room 300 (DST 2020, Sample 40333 PINK(3)-series 01);

- Drywall joint compound sampled from the walls on the 3rd floor library Room B and C (DST 2020, Sample 40333 BLUEDASH(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor library Room B and C (DST 2020, Sample 40333 LTBLUE(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor library Room B and C (DST 2020, Sample 40333 ORGDASH(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor mezzanine east and west wings (DST 2020, Sample 40333 PURPLE(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor library Room C,D and E (DST 2020, Sample 40333 DPORG(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor Room 340 and 341 (DST 2020, Sample 40333 LTGRY(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor hallway outside room 341 and corridor CR3N (DST 2020, Sample 40333 LTGRN(3)-series 01);
- Drywall joint compound sampled from the walls on the 3rd floor room 374 and 371 (DST 2020, Sample 40333 SKYBLU(3)-series 01); and
- Drywall joint compound sampled from the walls on the 3rd floor EV4 elevator lobby (DST 2020, Sample 40333 EV4-series 04).

Drywall joint compound sampling was performed to satisfy the requirements of Table 1 as outlined in O.Reg. 278/05, as amended. Assuming inter-series homogeneity for the drywall joint compound sampled, the above drywall joint compound is not considered asbestos-containing. However, it would be prudent to conduct additional drywall joint compound sampling for asbestos content on a project-specific basis.

Mortars and Grout Materials

- Terracotta block mortar (DST 2016, Samples 25657-01A-G)
- Concrete block wall mortar, 3rd Floor (DST 2016, Samples 25657-05A-C);
- Brick mortar (DST 2016, Samples 25657-34A-C);
- Mortar/adhesive associated with marble wall panels (DST 2016, Samples 25657-37A-C);
- Wall mortar associated with red bricks sampled from several locations throughout the sub-basement and basement floors (DST 2020, Sample 40333-series 65);
- Grout inside clay tiles, sampled from the basement inside the wall hatch of the janitor's closet (Location 49) (DST 2020, Sample 40333-series 83);
- Grey marble grout sampled from the stairwell and hallway in the basement Southeast (Location 52) and 3rd floor judges elevator lobby (Location 196) (DST 2020, Sample 40333-series 84);
- Brick mortar associated with the tan glazed bricks (2 different sizes) in the basement north corridor (Location 62) (DST 2020, Sample 40333-series 89);
- Grout associated with the marble floor in the east security sign in area in the basement (location 80) (DST 2020, Sample 40333-series 94);

- Tan Marble grout sampled from the ground floor main south entrance (Location 106) (DST 2020, Sample 40333-series 104);
- Grout associated with marble wall slabs in washrooms located on the ground floor through 2nd floor (Location 108) (DST 2020, Sample 40333-series 106);
- Grout associated with large tan blocks (Location 187) (DST 2020, Sample 40333-series 137); and
- Marble mortar sampled from loose panels in the sub-basement mechanical room 003 (DST 2021 Sample ID SCC-s1a-c).

Exterior Materials

- Stone slab mortar, exterior front steps of Supreme Court (DST 2016, Project Specific DSR Samples 03A-C);
- Membrane associated with steps below slab, exterior front steps of Supreme Court (DST 2016 Project Specific DSR Samples 05A-C);
- Roofing samples collected from the West rooftop (DST 2020 040333-RA1-3). DST was not able to sample from the East roof as it was too wet (saturated with water) at the time of sampling.
- White putty between the glass and metal frame on the east elevation window JJ interior windows (DST 2016, 26933-01A-C);
- Black caulking between the metal frame and exterior stone on the east elevation window JJ (DST 2016, 26933-02A-C);
- Black/grey caulking between the metal frame and screen on the south elevation window JJ (DST 2016, 26933-03A-C);
- Caulking painted brown between the metal frame and the stone on the east elevation window G (DST 2016, 26933-04A-C);
- Black caulking between the metal frame and stone on the east elevation window A (DST 2016, 26933-06A-C);
- Caulking painted brown, between the metal frame and metal frame (in groove) in the west courtyard window O (DST 2016, 26933-08A-C);
- Black caulking between the inner window and the outer window on marble moulding in the east courtyard, window E (DST 2016, 26933-09A-C);
- Grey caulking between the metal frame and the masonry (interior side of window) in the east courtyard, window E (DST 2016, 26933-10A-C);
- Black caulking around the door frame on the south elevation, bronze door (DST 2016, 26933-11A-C);
- Exterior stone mortar (DST 2016, 26933-12A-C);
- Grey caulking around the bronze door on the north elevation (DST 2016, 26933-13A-C);
- Black caulking sampled around the underground parking bay doors on the west elevation (DST 2020, Sample 40333-series 151);
- Sandy mortar sampled from the west elevation wall (DST 2020, Sample 40333-series 152);

- Parging on the west elevation wall around the underground parking bay doors (DST 2020, Sample 40333-series 153);
- Stone mortar on the west elevation walls near the underground parking entrance (DST 2020, Sample 40333-series 154);
- Gummy grey firestop sampled from around the sprinkler connection on the west elevation (DST 2020, Sample 40333-series 155); and
- Gummy light grey caulking sampled from along the top of the stone blocks on the west elevation (DST 2020, Sample 40333-series 156).

Miscellaneous Materials

Insulation

- Duct canvas insulation in the plenum space behind Room 0039, Sub-basement (DCS 2008, Samples 16A-C);

Tar

- Tar applied to cork panels on floor throughout First Mechanical Floor (DCS 2008, Samples 211A-C);
- Tar on cork panels adhered to interior roof structure (DST 2016, Samples 25657-06A-C)
- Tar under fiberglass panels associated with mechanical equipment, 3rd Floor, Room 336 Mezzanine (DST 2016, Samples 25657-10A-C). This tar under fiberglass panels associated with mechanical equipment was observed in other areas of the building as well and does not contain asbestos based on the sample results;
- Black tar membrane, South mechanical corridor (DST 2016, Samples 25657-14A-C);
- Tar paper associated with insulation materials inside vent, 3rd Floor Library, southwest (DST 2016, Samples 25657-17A-C);
- Tar membrane applied at exterior wall, Room 071, basement (DST 2016 Samples 25657-54A-C);
- Tar on cork panels throughout interior roofline/roof structure, 1st Mechanical Floor (DST 2016, Samples 25657-29A-C);
- Tar on cork associated with ductwork, 1st Mechanical Floor (DST 2016, Samples 25657-21A-C);
- Tar membrane, flat horizontal sections below slab (DST 2016, Project Specific DSR Samples 04A-C);
- Tar on fiberglass insulation sampled from inside the AHU units in the sub-basement room 0011, Location 15 (DST 2020, Sample 40333-series 70);
- Tar patch job sampled from around the windows in the 2nd mechanical room, Location 188 (DST 2020, Sample 40333-series 118);
- Tar membrane on wall sampled from the 3rd floor South corridor behind the library, Location 213 (DST 2020, Sample 40333-series 127);

- Tar strip sampled from the 3rd floor elevator mechanical room 342, Location 230 (DST 2020, Sample 40333-series 128);
- Tar on steel beams sampled from the mezzanine in the elevator mechanical room 342, Location 230 (DST 2020, Sample 40333-series 133);
- Tar patches sampled throughout the East elevator shaft walls, Location B (DST 2020, Sample 40333-series 145); and
- Vapour barrier membrane with tar sampled from the East elevator shaft walls, Location B (DST 2020, Sample 40333-series 148).

Parging/Texture Coats

- White cementitious parging on beams, 3rd Floor, Room 336 Mezzanine (DST 2016, Samples 25657-11A-C);
- White cementitious parging on vertical column, 3rd Floor, Room 336 (DST 2016, Samples 25657-12A-C);
- Pre-cast cementitious panels comprising the interior roofline/roof structure, 1st Mechanical Floor (DST 2016, Samples 25657-19A-G);
- Textured coat on walls in stairwell areas (DST 2016, Samples 25657-26A-E);
- Cementitious ceiling and ceiling beam parge throughout the Sub-basement mechanical room, Room 003 (DST 2016, Samples 25657-42A-G). This material was also observed throughout the ceiling deck of the basement level and sub-basement level.
- Textured wall and ceiling coat at top of ladder to upper mezzanine level, Room 0088, sub-basement (DST 2016, Samples 25657-58A-C);
- Grey parging at pipe and duct penetrations identified throughout the sub-basement (Locations 1 and 11) (DST 2020, Sample 40333-series 63);
- Red firestop sampled from the sub-basement (Locations 10 and 14) (DST 2020, Sample 40333-series 67);
- Rough parge patch job sampled from the ceiling of the sub-basement steam tunnel, Location 14 (DST 2020, Sample 40333-series 69);
- Parging sampled from the base of the wall in the sub-basement room 0021, Location 9 (DST 2020, Sample 40333-series 76);
- Scratch/rough coat sampled from wall the Northwest elevator lobby near the elevator stacks, Location 60 (DST 2020, Sample 40333-series 88);
- Cement panel located behind wall hatches in the Dame's Changeroom, Location 159 (DST 2020, Sample 40333-series 113);
- Dark grey caulking on duct hatches sampled from the 1st and 2nd mechanical rooms, Location 188 and 189 (DST 2020, Sample 40333-series 117);
- Brick Mortar/Parging on ductwork sampled from the 1st mechanical penthouse Location 237 (DST 2020, Sample 40333-series 129);
- Brown parge patch sampled from the beam in the 1st mechanical penthouse, Location 238 (DST 2020, Sample 40333-series 135);

- Wall parging/rough coat observed on the East and West elevator shaft walls (Location A & B) (DST 2020, Sample 40333-series 144);
- White cementitious wall material sampled from the North elevator shaft walls, Location D (DST 2020, Sample 40333-series 147);
- Parging on steel column sampled from the sub-basement room 0020 (DST 2020, Sample 40333-series 149);
- Texture coat sampled from the stairwell walls, south of the library stacks in the sub-basement (DST 2020, Sample 40333-BLUEDASH(SB)-series 02);
- Texture coat sampled from the library stack columns in the sub-basement (DST 2020, Sample 40333-GRY(SB)-series 02); and
- Texture coat sampled from the walls throughout EV4 (DST 2020 Sample ID 040333-EV4-series 02).

Mastics

- Yellow vinyl baseboard mastic sampled from the sub-basement stairwell, Location 25 (DST 2020, Sample 40333-series 74);
- Grey duct sealant/mastic associated with ducts throughout the building, sampled from the sub-basement ramp to the catacombs (Location 1) (DST 2020, Sample 40333-series 62);
- Brown vinyl baseboard mastic sampled from the basement room 045 fire panel room, Location 45 (DST 2020, Sample 40333-series 80); and
- Mastic associated with wood baseboards sampled from the ground floor office 33/34, Location 152 (DST 2020, Sample 40333-series 110).

Caulking

- White door caulking sampled from the sub-basement stairwell, Location 25 (DST 2020, Sample 40333-series 75);
- Red sticky fire stop sampled from the floor of the basement room 045, Location 45 (DST 2020, Sample 40333-series 81);
- Tan caulking associated with radiators (Location 73) (DST 2020, Sample 40333-series 91);
- Grey caulking associated with marble baseboards sampled from the basement East security sign in, Location 80 (DST 2020, Sample 40333-series 95);
- Expansion gap caulking sampled from the sub-basement library stacks 1 ceiling, Location 96 (DST 2020, Sample 40333-series 100);
- Grey caulking sampled from suspected transite panels in the parking garage wash bay Location 102 (DST 2020, Sample 40333-series 103);
- Caulking associated with showers, sampled from the ground floor washroom 10, Location 108 (DST 2020, Sample 40333-series 107);
- Rigid grey caulking sampled from the wall in the 1st mechanical penthouse, Location 237 (DST 2020, Sample 40333-series 130);

- Grey/white caulking sampled from AHU units (S2 and S5) in the 1st mechanical penthouse, Location 238 (DST 2020, Sample 40333-series 131);
- Thick gummy caulking sampled from the base of each AHU units in the 1st mechanical penthouse, Location 238 (DST 2020, Sample 40333-series 132);
- Tan caulking sampled from the gap between the roofline and the floor on the 1st mechanical penthouse, Location 238 (DST 2020, Sample 40333-series 134);
- White flaky caulking sampled from the rooftop above room 342 (DST 2020, Sample 40333-series 143); and
- White caulking sampled from the door between EV4 elevator lobby and the stairwell (DST 2020 Sample 40333-EV4-series 04).

5.8 Lead

Representative paint finishes were sampled from the building and submitted for lead content analysis by DST (2020, 2021) and/or past consultants.

The following bulk paint samples contain lead concentrations that are above the 90-ppm limit established by the Federal Canada Consumer Product Safety Act *Surface Coating Materials Regulations SOR/2016-193*, as amended:

- White paint sampled from the terracotta walls in the sub basement ramp to catacombs, Location 1, contains 401 ppm lead (DST 2020 Sample ID 040333-LP1);
- Grey paint sampled from the floor of the sub basement, room 0021, Location 9 contains 516 ppm lead (DST 2020 Sample ID 040333-LP2);
- Off-White and red paint sampled from the support column in the sub basement central mechanical room 0017, Location 10, contains 5730 ppm (DST 2020 Sample ID 040333-LP3);
- Grey paint sampled from the base of the wall in the sub basement room 0039, Location 11 contains 656 ppm lead (DST 2020 Sample ID 040333-LP4);
- Beige paint sampled from the AHU unit in the sub basement, room 0039, Location 12 contains 1360 ppm lead (DST 2020 Sample ID 040333-LP5);
- Light grey paint sampled from the floor of the sub basement steam tunnels, Location 14, contains 455 ppm lead (DST 2020 Sample ID 040333-LP6);
- Grey paint sampled from the double metal doors in the sub basement dividing Mechanical room 003 and 008, Locations 23 and 24 contains 4340 ppm lead (DST 2020 Sample ID 040333-LP7);
- Light beige paint sampled from the radiator in the basement room 034, Location 38 contains 11100 ppm lead (DST 2020 Sample ID 040333-LP8);
- Light tan paint sampled from the wall in the basement janitor's closet, room 027, Location 48, contains 1980 ppm lead (DST 2020 Sample ID 040333-LP9);
- Off-white paint sampled from the wall in the ground floor washroom 55B, Location 123, contains 725 ppm lead (DST 2020 Sample ID 040333-LP11);

- White paint sampled from the radiator in the 1st floor washroom 106A, Location 154, contains 2200 ppm lead (DST 2020 Sample ID 040333-LP13);
- Beige paint sampled from the wall in the 3rd floor Southeast stairwell, Location 212 contains 2970 ppm (DST 2020 Sample ID 040333-LP14);
- Grey paint sampled from the lower shaft walls in the judge's elevator, Location C, contains 2050 ppm lead (DST 2020 Sample ID 040333-LP17);
- Grey paint sampled from the floor in the judge's elevator pit, Location C, contains 3480 ppm lead (DST 2020 Sample ID 040333-LP18);
- Grey paint sampled from the exterior west elevation loading dock door contains 2400 ppm lead (DST 2020 Sample ID 040333-LP20); and
- Black paint sampled from the steel beams in the upper mechanical penthouse contains 317,000 ppm lead (DST 2021 Sample ID SCC-L1).

The following bulk paint samples contain lead concentrations below the 90-ppm limit established by the Federal Canada Consumer Product Safety Act *Surface Coating Materials Regulations* SOR/2016-193, as amended:

- White paint sampled from the ceiling in the basement room 021, Location 53, contains <20 ppm lead (DST 2020 Sample ID 040333-LP10);
- Grey paint sampled from the wall in the ground floor kitchen, Location 128 contains <20 ppm lead (DST 2020 Sample ID 040333-LP12);
- Grey paint sampled from the floor in the Northeast/Northwest elevator pit, Location A/B contains 26 ppm (DST 2020 Sample ID 040333-LP15);
- White paint sampled from the shaft walls in the Judges elevator, Location C, contains 62 ppm lead (DST 2020 Sample ID 040333-LP16); and
- Black paint sampled from the steel beam in the Judges elevator, Location C, contains <20 ppm lead (DST 2020 Sample ID 040333-LP19).

No other lead (in paint/surface coatings) samples were collected by DST as part of the survey as paints/surface coatings were in good condition, and sampling without matrix interference (removing the paint without the substrate material) would have proved difficult. However, detectable concentrations of lead are assumed to be present on other painted building components and as part of surface coatings of structural steel members, where present. All paints should be considered to be lead-containing unless further sampling or in-situ delineation (e.g. X-Ray Fluorescence [XRF] analysis) confirms otherwise. Historical XRF data (Pinchin 2012) is included in Appendix 3.

Lead is also assumed to be present in the following materials:

- Solder on the joints of copper piping,
- Ceramic tile glazing,
- All Structural steel coatings,
- Emergency light batteries, and

- Cast iron drainpipe joint caulking.

5.9 Mercury

Mercury is assumed to be present in the following:

- Fluorescent lights tubes throughout the building, and
- Thermostats.

5.10 Silica

Based on the historic composition of building materials, silica is assumed to be present in:

- Concrete and cement,
- Cementitious parging materials,
- Interior and exterior stone and masonry building materials,
- Plaster building elements,
- Roofing materials,
- Ceramic tiles, marble, other stone, grouts, mortar,
- Brick and mortar
- Stone and mortar;
- Drywall building elements,
- Ceiling tiles,
- Floor leveling compounds and mastics, and
- Vinyl flooring products.

5.12 Polychlorinated Biphenyls (PCBs)

Light fixtures with T12 lamps are more likely to contain ballasts that were manufactured prior to 1981. T8 lamps are more likely associated with light fixtures that were manufactured after the phase-out of PCB-containing ballasts. The letter “T” denotes the shape of the light fixture (e.g. tubular) and the number which follows indicates the diameter in eighths of an inch. Light fixtures were observed to be comprised of T8 lamp tubes, where the ballasts associated with these light fixtures are not suspected to contain PCBs. Prior to removal and as a due diligence measure, all ballasts should be inspected to confirm PCB content.

5.13 Halocarbons

Halocarbons are a family of synthetic organic compounds that are composed of carbon and the following elements: hydrogen, chlorine, fluorine, and/or bromine. They are inert, heat-absorbing molecules which are very attractive as refrigerants and fire suppression agents because they are inexpensive, non-flammable and very stable.

Halocarbons are used specifically as refrigerants in air-conditioning and refrigeration systems, fire extinguishing agents in fire extinguishing systems, blowing agents in the manufacture of foams,

and as solvents. Halocarbons are regulated because many of them contribute to the depletion of the stratospheric ozone layer.

In general, halocarbons are assumed to be present in refrigeration systems, air conditioning units, chillers, and water fountains within the building.

5.14 Mould

DST observed suspected mould in the following Locations:

- One (1) square meter on pipe insulation in the sub-basement central mechanical room 0017, Location 10;
- One (1) square meter on pipe insulation associated with AHU unit in the Mezzanine of Room 009, Location 17;
- One (1) square meter on pipe insulation in the mezzanine of the 3rd floor elevator mechanical room 342, Location 230.

5.15 Other Hazardous Materials

The following hazardous materials were observed to be present in the building:

- Miscellaneous maintenance oils and chemicals were observed in maintenance areas of the building;
- Miscellaneous cleaning supplies were observed in select janitor closets throughout the building;
- A pipe penetration on the chilled line in the sub-basement central mechanical room 0017 beside the door to the steam tunnels, Location 10 was observed to be insulated with black foam glass sheet insulation. Historically, this material has been associated with the chilled water lines in the Cliff Street Central Heating and Cooling Plant Steam Tunnels servicing the subject building. A Material Data Safety Sheet² (MSDS) prepared for foam glass insulation products encountered by DST on other projects indicated that this product composition is likely (% by volume):
 - Hydrogen Sulfide (H₂S): < 1.2 %
 - Carbon Monoxide (CO): 0 – 6%
 - Carbon Dioxide (CO₂): 85 – 95%
 - Glass Dust: Varies

The MSDS also indicated that cutting, crushing, or breaking the cells of the product will result in the release of these gases and glass particulate. As such, physical disturbance of this insulation product represents an airborne risk to workers.

² Foamglass Insulation – Material Safety Data Sheet, 2009, 2013. Prepared by Pittsburgh Corning Corp. (Manufacturer/Supplier).

The following other Designated Substances were neither observed, nor suspected of being present, in forms or quantities expected to have an impact on future work operations associated with the subject project:

- Acrylonitrile,
- Arsenic,
- Benzene,
- Coke Oven Emissions,
- Ethylene Oxide,
- Isocyanates, and
- Vinyl Chloride.

5.16 Remaining Data Gaps/Inaccessible areas

The following areas and/or materials require additional investigation to determine the presence or absence of designated substances:

- Sub-basement hydro Vault, Room 0003;
- Materials concealed behind historic finishes (such as heritage marble, wood paneling etc)
- Some ceiling and wall hatches throughout the building were inaccessible due to stripped screws; and
- Cement floor slab investigations.

6.0 CONCLUSIONS AND RECOMMENDATIONS

DST was retained by PSPC to provide a DSR for the SCC located at 301 Wellington Street in Ottawa, Ontario.

The DSR scope of work included an assessment for the presence of the 11 Designated Substances, as identified in the Occupational Health and Safety Act, as well as Polychlorinated Biphenyls (PCBs), Halocarbons, and other miscellaneous hazardous materials or chemicals.

The following table provides an overview of Designated Substances and Hazardous Materials observed at the SCC.

Table III: Overview of Designated Substances and Hazardous Materials	
Designated Substances and Hazardous Materials observed	Designated Substances and Hazardous Materials not observed

<ul style="list-style-type: none">• Asbestos,• Lead,• Mercury,• Silica,• PCBs,• Halocarbons,• Mould, and• Other Hazardous Materials	<ul style="list-style-type: none">• Acrylonitrile,• Arsenic,• Benzene,• Coke Oven Emissions,• Ethylene Oxide,• Isocyanates, and• Vinyl Chloride.
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The following recommendations apply to only designated substances and hazardous materials observed in the building.

6.1 Asbestos

The disturbance of ACMs on construction and demolition projects is governed by the *Canada Occupational Health and Safety Regulations*, *PSPC Asbestos Management Standard*, and in the province of Ontario is governed by *O.Reg. 278/05*, as amended. These regulations classify all asbestos disturbances as Low Risk (Type 1), Moderate Risk (Type 2), or High Risk (Type 3), each of which has defined precautionary measures. All asbestos materials are subject to specific handling and disposal precautions and must be removed prior to demolition. The Ontario Ministry of Labour (MoL) must be notified of any project involving removal of more than a minor amount (e.g. typically 1 square metre) of friable asbestos material. In the event of conflict between regulations, the more stringent procedures apply.

Identified friable ACMs (e.g. pipe fitting insulation, fibrous board, ceiling stipple, etc.) require a minimum of Moderate Risk abatement procedures when removing or disturbing one (1) square metre or less of the material. Should demolition, disturbance, or repair be required of more than one (1) square metre of friable ACM, High-Risk abatement procedures are required. It should be noted that the removal of good condition pipe fitting insulation can be completed using Moderate-Risk glovebag procedures, provided the glovebag seal can be maintained throughout the removal process.

As per the COHSR and clarification documentation³, removing greater than 2 m² of ceiling tiles (assumed to be considered a friable material) if the ceiling tiles are removed without being broken, cut, ground, sanded, or vibrated can be completed using Moderate-Risk asbestos work procedures. If 2 m² or less of ceiling tiles are removed without being broken, cut, ground, sanded, or vibrated, this work can be completed using Low-Risk asbestos work procedures. The breaking, cutting, grinding, sanding, or vibrating of any quantity of ceiling tiles (assumed friable) must be completed using High-Risk asbestos precautionary measures.

The removal or disturbance of less than one square metre of drywall in which the joint-filling compounds are asbestos-containing can be completed using Low-Risk asbestos procedures. The

³ Technical Guideline to Asbestos Exposure Management Programs. Employment and Social Development Canada. January 16, 2018.

removal or disturbance of one square metre or more of drywall in which joint-filling compounds are asbestos-containing must be completed using a minimum of Moderate-Risk asbestos procedures.

The removal of non-friable materials (e.g. caulking, putty, roofing materials, tars) can be completed using Low-Risk procedures, provided only non-powered hand tools are used and the material is wetted during removal. If these conditions cannot be met, then more stringent (Moderate Risk or High-Risk) procedures are required.

The breaking, cutting, drilling, abrading, grinding, sanding, or vibrating of non-friable asbestos-containing materials if the work is done by means of a power tool that is attached to a dust-collecting device equipped with HEPA filters, can be performed using Moderate-Risk asbestos work procedures. The breaking, cutting, drilling, abrading, grinding, sanding, or vibrating of non-friable asbestos-containing materials, if the work is done by means of a power tool that is not attached to a dust-collecting device equipped with HEPA filters, requires High-Risk asbestos work procedures.

The transport and disposal of asbestos waste is governed by *O. Reg. 347/90 – General – Waste Management*, as amended. This regulation requires that asbestos waste be sealed in appropriately labelled, double containers resistant to puncture and tears. The waste must be disposed at a licensed waste disposal site.

The time weight average exposure limit (TWAEEL) for airborne asbestos is prescribed by *O.Reg. 490/09 Designated Substances*, as amended and the *Canada Labour Code, Occupational Health and Safety Regulations*. Work procedures and personal protective equipment must be used to ensure that workers are not exposed to airborne asbestos levels that exceed this TWAEEL.

The following recommendations apply to ACMs and suspected ACMs:

- Appropriate work procedures and precautionary measures must be used, as outlined in *O.Reg. 278/05, PSPC Asbestos Management Standard, and the Canada Occupational Health and Safety Regulations*, as amended, when performing work that may disturb ACMs or suspected ACMs, including prior to building demolition.
- Disturbance and/or removal of ACMs must be appropriately recorded as part of the building's Asbestos Management Plan.
- Before undertaking any work activity that involves asbestos-containing materials, an Asbestos Exposure Control Plan shall be developed, in accordance with the requirements of the *Canada Occupational Health and Safety Regulations*, which includes classification of asbestos specific work activities, onsite labelling of ACMs, and education/training of applicable federal employees specific to ACMs.
- If ACMs or suspected ACMs become damaged and worker exposure to the material is likely to occur, the damaged material must be repaired or removed following work procedures outlined in *O. Reg. 278/05, PSPC Asbestos Management Standard, and Canada Labour Code, Occupational Health and Safety Regulations, as amended*.

- Disposal of asbestos waste is controlled by the Ontario Environmental Protection Act, *Regulation 347/90, General – Waste Management*, as amended. This regulation requires that asbestos waste be sealed in double containers resistant to puncture and tears, and appropriately labelled. The waste must be disposed at a licensed waste disposal site. Proper notification must be issued to the site representative prior to transportation of waste. The transport of the waste to the disposal site is controlled by the federal *Transportation of Dangerous Goods Act, 1992* (TDGA) and Ontario Dangerous Goods Transportation Act.

DST made the attempt to evaluate the project areas to identify hazardous materials present. In spite of these efforts, some ACMs may be concealed and not observed at the time of the survey. As such, should any previously unidentified suspect ACMs be encountered as part of future work, these materials are to be treated as ACMs and handled accordingly, unless sampling proves otherwise. Materials that have not been analyzed but are visibly similar to other materials identified as asbestos-containing, must be considered asbestos-containing unless proven otherwise by laboratory analysis.

6.2 Lead

The Occupational Health and Safety Branch (OHS) of the Ontario MoL have published *Guideline: Lead on Construction Projects*. This document classifies all lead disturbances as Type 1, Type 2a, Type 2b, Type 3a or Type 3b work, and assigns different levels of respiratory protection and work procedures for each classification. Disturbance of lead-containing coatings shall follow the procedures of this guideline document.

Paints and other surface coatings containing elevated concentrations of lead can pose a health risk to humans if ingested or inhaled. Such lead-containing surface coatings are also a risk to the environment with the potential to contaminate soil and groundwater. Surface coatings with elevated lead content can also pose a health risk to workers while completing renovations within the building.

Although the Canada Consumer Product Safety Act's *Surface Coating Materials Regulations SOR/2016-193*, as amended, has set a limit of 90 parts per million (ppm) for surface coating materials, there may be a potential for exposure to high levels of airborne lead depending on the work activities performed that disturb the lead-containing materials, even at low lead content concentrations (e.g. removal or disturbance by aggressive means such as sandblasting, grinding, etc.). A risk assessment to assess the potential for exposure to lead should be performed in order to determine the need to follow work procedures such as those outlined in the MoL guideline referenced above.

In the event of conflict between lead precautionary measures and other precautionary measures (e.g. asbestos, silica), the more stringent procedures shall apply.

The time weighted average exposure limit (TWAEL) for airborne lead is prescribed by *Ontario Regulation 490/09 Designated Substances*, as amended. Work procedures and personal protective equipment must be used to ensure that workers are not exposed to airborne lead levels that exceed this TWAEL.

The disposal of construction waste containing lead is governed by *O. Reg. 347/90 - General – Waste Management*, as amended. The transport of the waste to the disposal site is controlled by the federal TDGA and the Ontario Dangerous Goods Transportation Act. Materials with elevated concentrations of lead should be subject to Toxicity Characteristic Leaching Procedure (TCLP) testing to determine toxicity with respect to lead prior to disposal, in accordance with *O. Reg. 347/90, as amended*.

Prior to or during renovation work, the following procedures should be performed for lead-containing materials that are anticipated to be disturbed:

- Copper piping can be cut a small distance (e.g. 50 mm) from the soldered joints to avoid direct disturbance of the lead material,
- Cast iron drainpipes can be cut away from the joints to avoid direct disturbance of the lead caulking in the joints,
- Ceramic tiles can be removed using Type 1 work procedures and respiratory protection provided that only non-powered hand tools are used, and
- Emergency light batteries and other batteries should be removed when decommissioned and disposed of as lead-containing waste.

6.3 Mercury

There is no regulation that specifically governs the disturbance of mercury on construction projects.

When removal of the fluorescent light tubes is required, the tubes should be removed intact from the fixtures. This prevents worker exposure to mercury vapour, particularly if the tubes were energized shortly before removal. Similarly, sources of liquid mercury should be removed in a similar fashion (intact) to prevent worker exposure.

The TWAEL for mercury is prescribed by *Ontario Regulation 490/09 Designated Substances*, as amended. Work procedures and personal protective equipment must be used to ensure that workers are not exposed to airborne mercury levels that exceed this TWAEL.

Liquid mercury is classified as a hazardous waste under *O. Reg. 347/90*, as amended. The transport of the waste to a disposal site is controlled by *O. Reg. 347/90* and by the federal TDGA and the Ontario Dangerous Goods Transportation Act. It is now common practice to recycle fluorescent light tubes, and other items containing mercury, recovering the component materials, and avoiding the generation of hazardous waste.

6.4 Silica

The Occupational Health and Safety Branch of the Ontario MoL has published *Guideline: Silica on Construction Projects*. This document classifies all silica disturbances as Type 1, Type 2 or Type 3 work, and assigns different levels of respiratory protection and work procedures for each classification. In the absence of specific legislation for silica on construction projects, this guideline would serve as a reasonable, peer reviewed standard for work procedures.

The TWAEEL for airborne silica is prescribed by Ontario Regulation 490/09 *Designated Substances*, as amended. Work procedures and personal protective equipment must be used to ensure that workers are not exposed to airborne silica levels that exceed this TWAEEL.

As a general rule, it is preferable to use more stringent dust suppression techniques and engineering controls as opposed to relying on respiratory protection to control worker exposure. Respiratory protection should only be relied on as a last resort when dust suppression techniques and engineering controls fail to control worker exposure to silica.

6.5 PCBs

Although PCBs are not suspected to be present associated with T8 light fixture ballasts, as a due diligence measure and prior to removal or disposal, the PCB content of equipment should be confirmed to determine proper procedures to be followed. When the fluorescent light fixtures are taken out of service, these ballasts should be examined to determine whether they contain PCBs. This can be done by comparing the manufacturer date codes stamped on the ballasts to information contained in the document titled *Identification of Lamp Ballasts Containing PCBs*, published by Environment Canada. Ballasts that contain PCBs must be packaged, transported and disposed of in accordance with all appropriate provincial and federal regulations.

If PCB-containing equipment and/or materials are identified and must be removed, they should be disposed of in accordance with the Canadian Environment Protection Act's PCB Regulations, O. Reg. 362/90 – *Waste Management, PCBs* and O. Reg. 347, *General – Waste Management*, as amended, are regulated under the Environmental Protection Act to regulate the handling, storage and transportation of hazardous substances and waste dangerous goods. The transport of PCB waste to the disposal site is controlled by the federal Transportation of Dangerous Goods Act and *Ontario Dangerous Goods Transportation Act*.

6.6 Halocarbons

The handling, transport and disposal of halocarbons is governed by the following:

- Federal Halocarbon Regulations (FHR), 2003,
- Ozone-depleting Substances and Halocarbon Alternatives Regulations, 2016,
- Environmental Code of Practice for Elimination of Fluorocarbon Emissions from Refrigeration and Air Conditioning Systems, 2015, and

- Provincial Transport of Dangerous Substances Regulation and Federal Transport of Dangerous Goods Act.

When halocarbon-containing equipment is taken out of service, the halocarbons must be captured and reclaimed by a certified service technician using methods and containers that are designed to contain the halocarbon. The service technician must provide written acknowledgement of the requirements of the FHR. Appropriate records of service technician certification and records of equipment decommissioning must be provided and maintained in accordance with requirements of the FHR.

6.7 Mould

Currently, there are no regulations pertaining to mould on construction projects. Most jurisdictions have issued alerts or bulletins concerning the hazard of mould in indoor environments. The Canadian Construction Association (CCA) published the following document as a response to concerns in the construction industry: *“Mould Guidelines for the Canadian Construction Industry”, 2018*. The Guideline recommends Level 1, 2 and 3 mould abatement procedures for small (<1 m²), medium (1 m² to 10 m²) and large scale (>10 m²) mould abatement operations that are to be determined by professionals based on the extent and density of mould on site.

In areas where the quantity of mould observed is between one (1) and ten (10) square metres of mould growth, remediation work should be performed in adherence to CCA 2018 Level 2 (Medium Scale) Mould Remediation Procedures. If additional mould is encountered as part of this work, increased level of remediation precautions is required (Level 3).

In areas where the quantity of mould observed is less than one (1) square metre of mould growth, remediation work should be performed in adherence to CCA 2018 Level 1 (Small Scale) Mould Remediation Procedures. If additional mould is encountered as part of this work, increased level of remediation precautions is required (Level 2 or 3).

In the event of conflict between mould precautionary measures and other precautionary measures (e.g. asbestos, silica), the more stringent procedures shall apply.

Areas subject to continued water/moisture infiltration can result in the formation of mould growth. DST also recommends that the sources of moisture and/ or water intrusion be identified and rectified, prior to mould and water damaged material removal and new building material re-instatement.

6.8 Other Hazardous Materials

The handling and use of maintenance oils and chemicals, cleaners should be undertaken by those with proper training (e.g. Workplace Hazardous Materials Information System, etc.) and adhere to any applicable guidelines and/or regulations.

Appropriate work practices including adequate ventilation and respiratory protection must be utilized during the disturbance and/or removal of foam glass insulation. General or local

ventilation, as needed, is recommended when disturbing this material. Furthermore, the MSDS for the product states that supplied air or self-contained breathing apparatus in poorly ventilated areas is required when cutting or crushing foam glass insulation, as it can cause the Permissible Exposure Limit (PEL) of hydrogen sulphide and carbon monoxide gases to be exceeded.

Previous foam glass abatement operations with which DST has been involved have shown that given adequate ventilation of the work area and proper foam glass removal technique (i.e. minimal disturbance/breaking/cutting) occupational exposure limits for hydrogen sulphide and carbon monoxide were not exceeded. However, DST recommends that precautions appropriate to the scope of demolition work be applied to foam glass demolition on a case-by-case basis as site conditions and work practices may vary. Furthermore, a written workplan and monitoring plan specific to foam glass demolition and/or disturbance should be prepared and implemented by appropriate Health and Safety professionals (e.g. Certified Industrial Hygienist/Registered Occupational Hygienist) on a case-by-case basis.

Prior to renovation operations, foam glass insulation should be verified to confirm if it is impacted by asbestos-containing black tar. Assume black tar is present until proven otherwise. Foam glass insulation not impacted by asbestos-containing black tar should be disposed of appropriately. The transport and disposal of chemical waste is governed by *O. Reg. 347/90 – General – Waste Management*, as amended.

7.0 LIMITATIONS OF REPORT

This report is intended for client use only. Any use of this document by a third party, or any reliance on or decisions made based on the findings described in this report, are the sole responsibility of such third parties, and DST Consulting Engineers Inc. accepts no responsibility for damages, suffered by any third party as a result of decisions made or actions conducted based on this report. No other warranties are implied or expressed.

The data, conclusions and recommendations which are presented in this report, and the quality thereof, are based on a scope of work authorized by the client. The sampling program included non-destructive asbestos bulk sampling and paint sampling in select representative areas for laboratory analysis. There is a practical limitation on the number of samples that can be collected in an occupied building. This requires the investigator to extrapolate observations and analytical results between sample Locations. The uncertainty, and inherent risk, associated with this necessity increases with the distance between sampling Locations. Note, however, that no scope of work, no matter how exhaustive, can guarantee to identify all contaminants. This report therefore cannot warranty that all building conditions are represented by those identified at specific Locations.

Recommendations, when included, are made in good faith and are based on several successful experiences.

Any use of this report by the client and any other party is contingent upon their understanding and acceptance of the following condition:

“Mould is a naturally occurring substance and regardless of the results of an assessment or how completely it is removed, it could reoccur.”

Regardless of the effectiveness of any remedial actions, mould growth may occur/reoccur anywhere within a building at any time, should conditions be favourable. It is therefore essential to maintain buildings, surfaces, appliances and furnishings under conditions which are not favourable to mould incubation and growth (warm, dry, and clean). The scope of services provided by DST for this assignment did not include a detailed evaluation of the thermal and moisture management characteristics of the exterior wall assembly, or a detailed building envelope investigation to ascertain every potential root cause of the water infiltration that created an environment favourable to mould proliferation. Similarly, DST has not been engaged to provide detailed designs for the reinstatement of building finishes or for improvements to the building envelope.

Note also that standards, guidelines and practices related to DST's scope of work may change with time. Those which were applied at the time of this program may be obsolete or unacceptable at a later date.

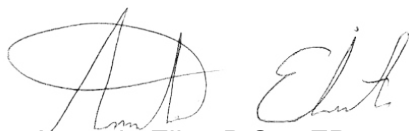
Any comments given in this report on potential remediation problems and possible methods are intended only for the guidance of the designer. The scope of work may not be sufficient to determine all the factors that may affect construction, clean-up methods and/or costs. Contractors bidding on this project or undertaking clean-ups should, therefore, make their own interpretation of the information presented and draw their own conclusions as to how the conditions may affect their work.

Any results from an analytical laboratory or other subcontractor reported herein have been carried out by others, and DST Consulting Engineers Inc. cannot warranty their accuracy. Similarly, DST cannot warranty the accuracy of information supplied by the client.

8.0 CLOSURE

We trust that the information contained herein meets your needs. Should you have any questions or comments, please do not hesitate to contact us.

DST CONSULTING ENGINEERS INC.



Amanda Eliot, B.Sc., EP
Environmental Technician
aeliot@dstgroup.com

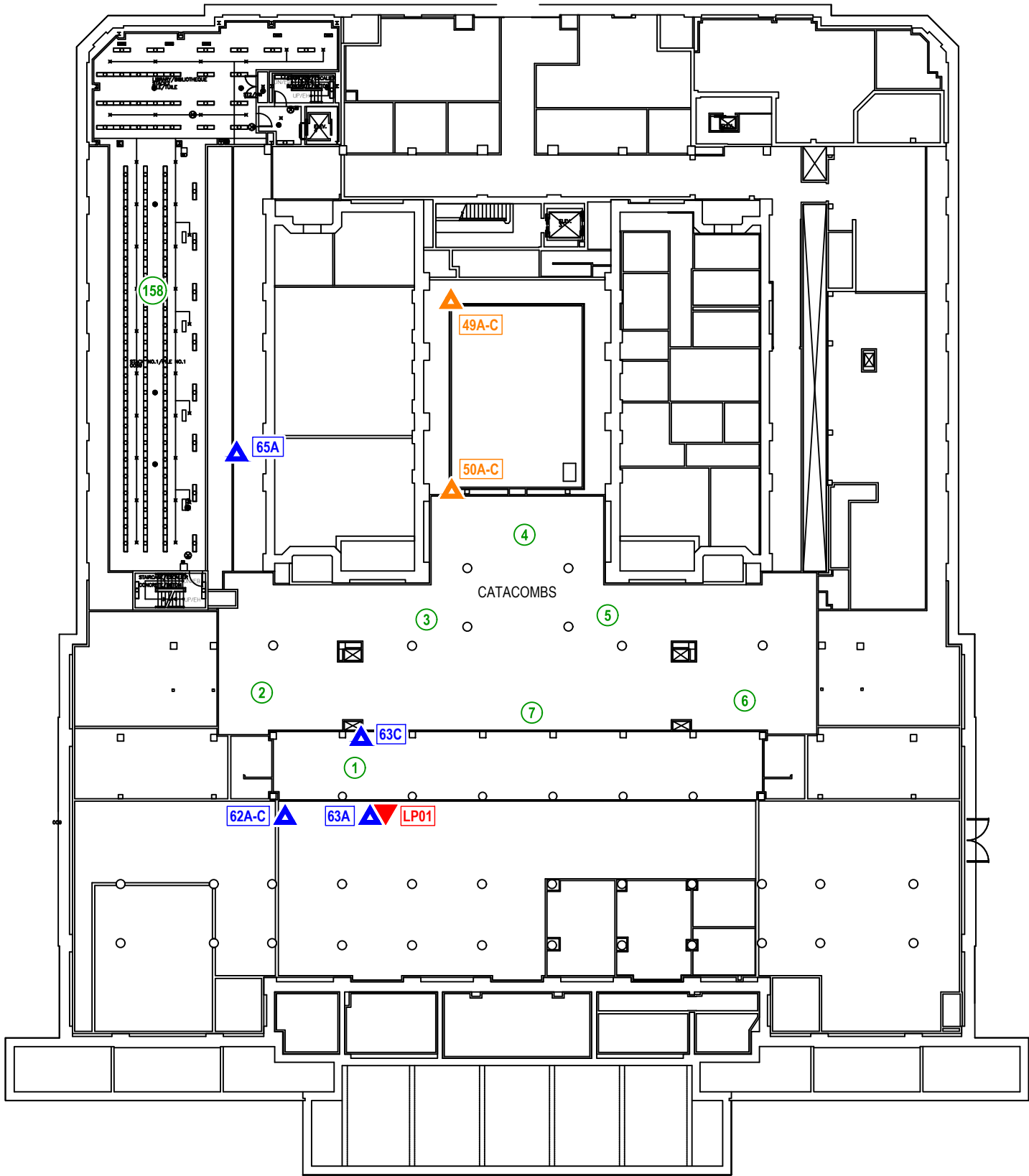


Matthew DesRoches, M.Sc.(A), CIH, ROH
Subject Matter Expert, Occupational Hygiene
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Appendix A

Floor Plans with Sample Locations (DST 2016 & 2020 Samples)

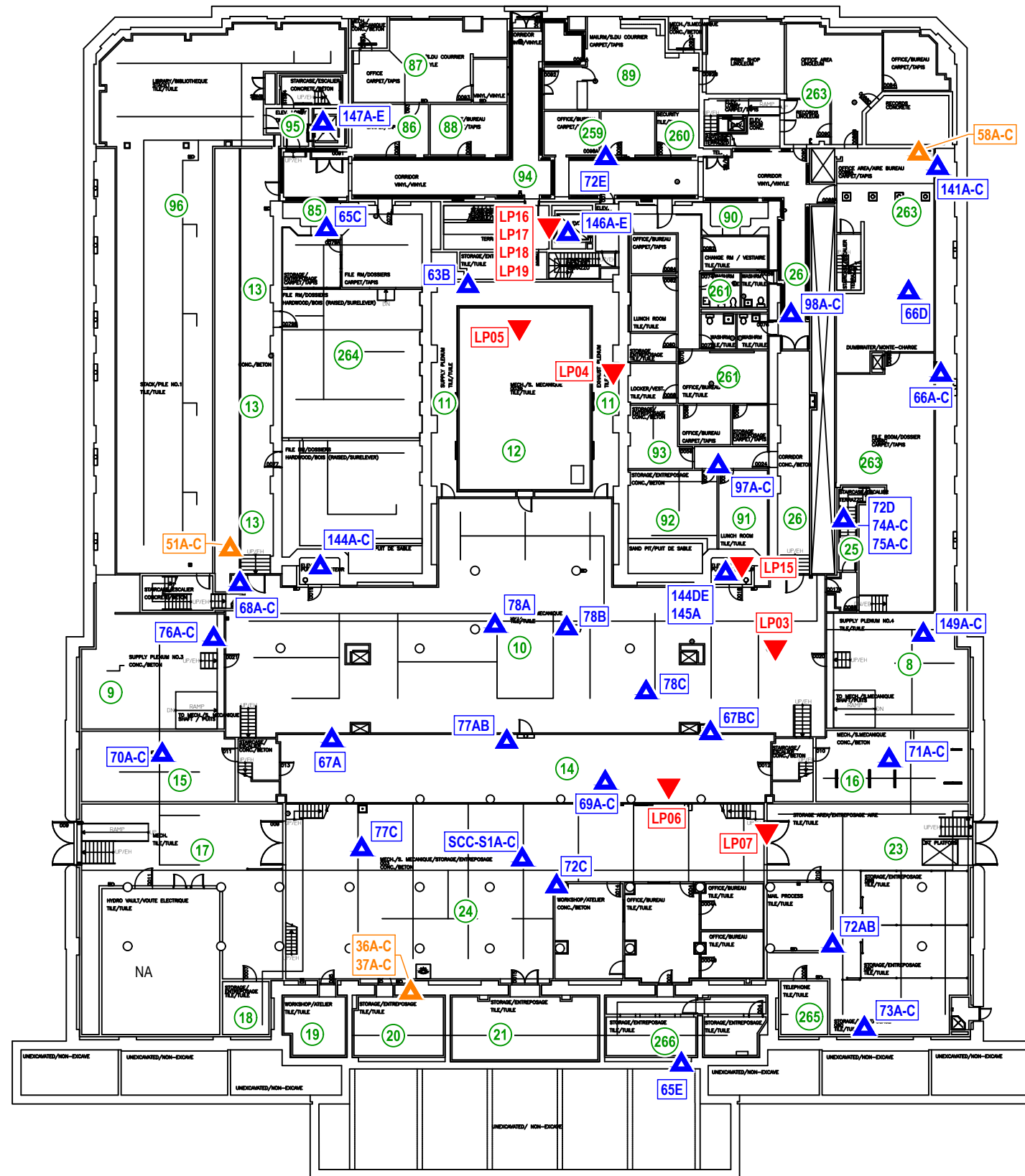
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- Note**
1. This drawing shall be read in conjunction with the associated technical report.
 2. Do not scale drawing.
 3. Base plan provided by client.

- Legend**
-  Approximate Bulk Asbestos Sample Location
 -  Approximate Lead Sample Location
 -  Approximate Bulk Asbestos Sample Location (2016)




0	03/10/2021	Original	
Revision	Date	Issue	Approval
Client			
Public Services and Procurement Canada			
Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
Sub-Basement Stock Pile No 1 Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
K.M.		March 2021	
Approved By		Project No.	
		GV-OT-040333	
Figure No.		1	



Note

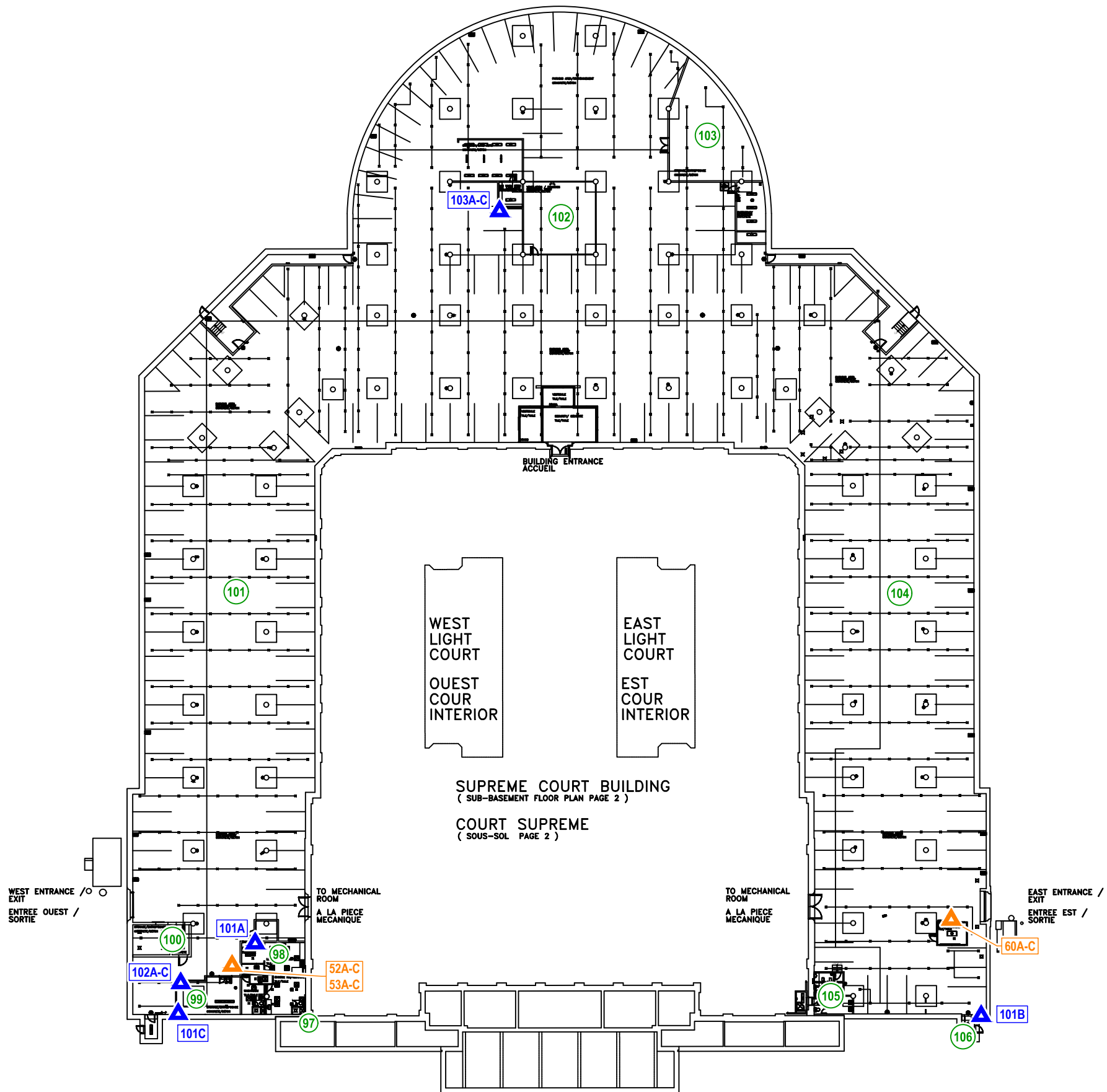
1. This drawing shall be read in conjunction with the associated technical report.
2. Do not scale drawing.
3. Base plan provided by client.

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-  Approximate Bulk Asbestos Sample Location
 Approximate Lead Sample Location
 Approximate Bulk Asbestos Sample Location (2016)

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Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
Sub-Basement Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
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		GV-OT-040333	
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2			

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Legend



Approximate Bulk Asbestos Sample Location

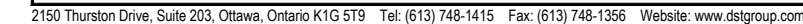


Approximate Lead Sample Location



Approximate Bulk Asbestos Sample Location (2016)

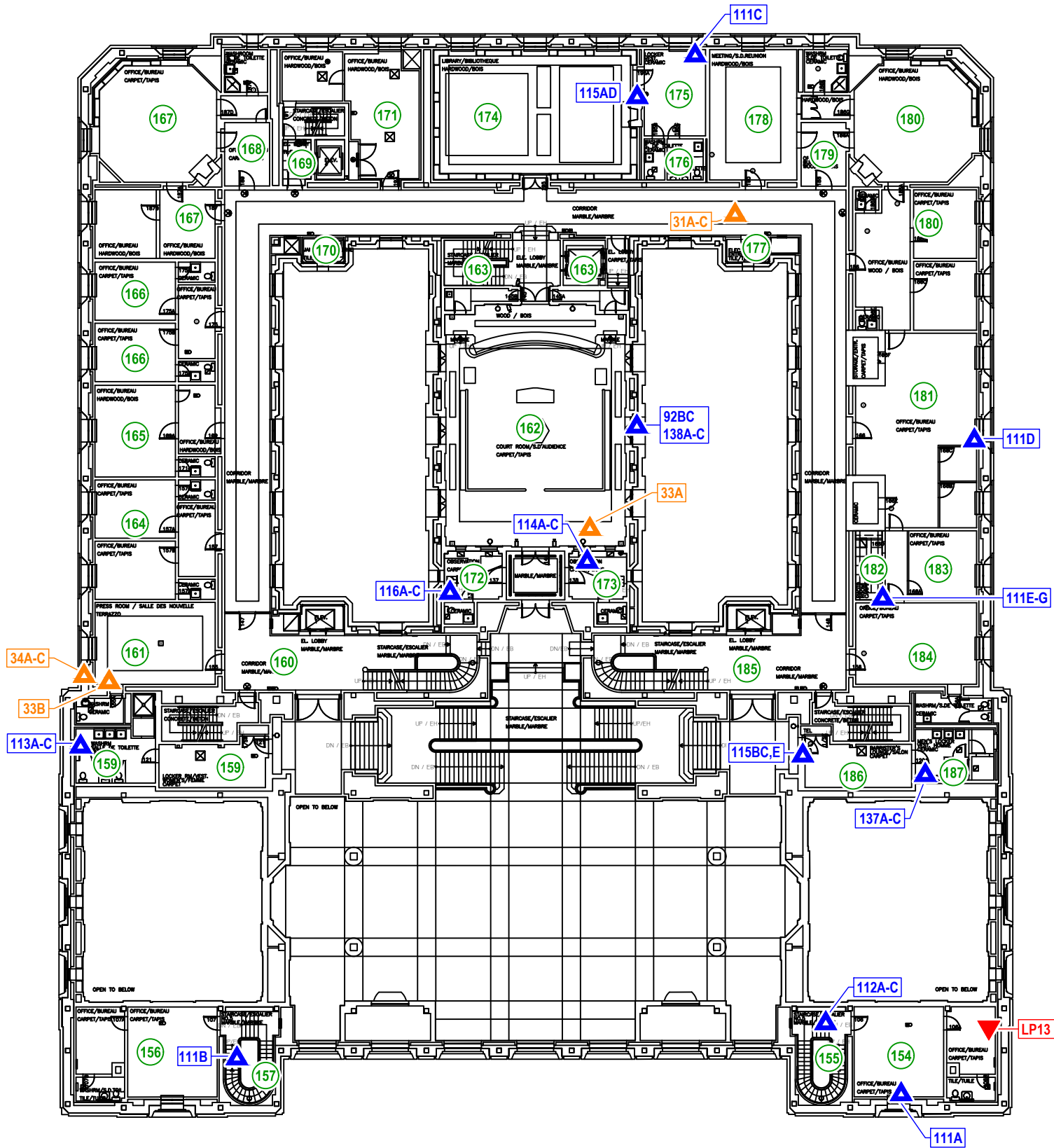
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Site			
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Report Title			
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Drawing Title			
Parking Level Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
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Figure No.		3	






- ### Legend

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| 0 | 03/10/2021 | Original | |
| Revision | Date | Issue | Approval |
| Client
Public Services and Procurement Canada | | | |
| Site
301 Wellington Street, Ottawa, ON | | | |
| Report Title
Supreme Court of Canada Rehabilitation Project
Designated Substance Survey and Asbestos
Reassessment Survey | | | |
| Drawing Title
Basement
Bulk Asbestos & Lead Sampling Locations | | | |
| Designed By
A.E. | | Scale
NTS | |
| Drawn By
K.M. | | Date
March 2021 | |
| Approved By | | Project No.
GV-OT-040333 | |
| Figure No. | | | |

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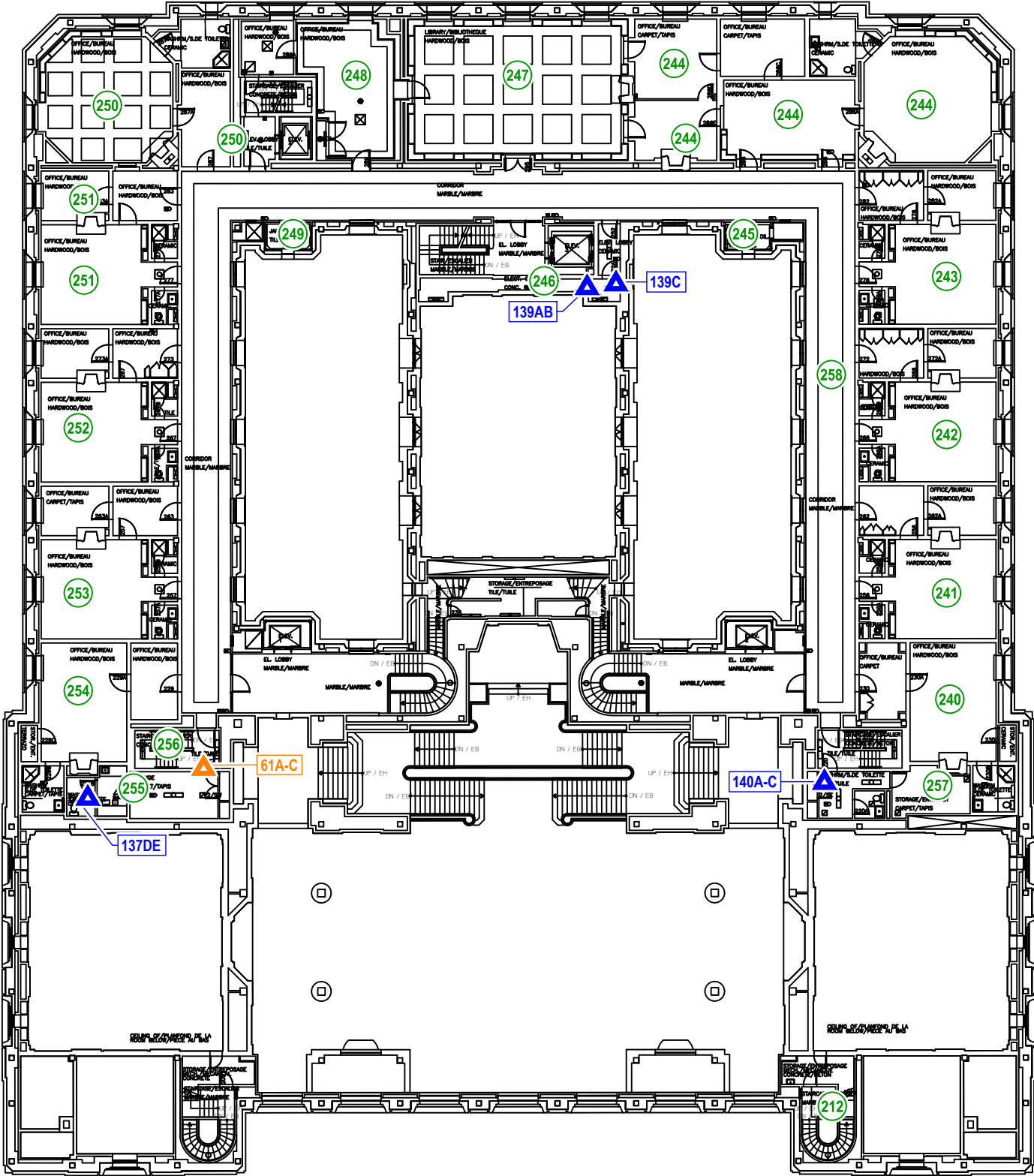


- Note**
1. This drawing shall be read in conjunction with the associated technical report.
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- Legend**
-  Approximate Bulk Asbestos Sample Location
 -  Approximate Lead Sample Location
 -  Approximate Bulk Asbestos Sample Location (2016)

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Revision	Date	Issue	Approval
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Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
First Floor Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
K.M.		March 2021	
Approved By		Project No.	
		GV-OT-040333	
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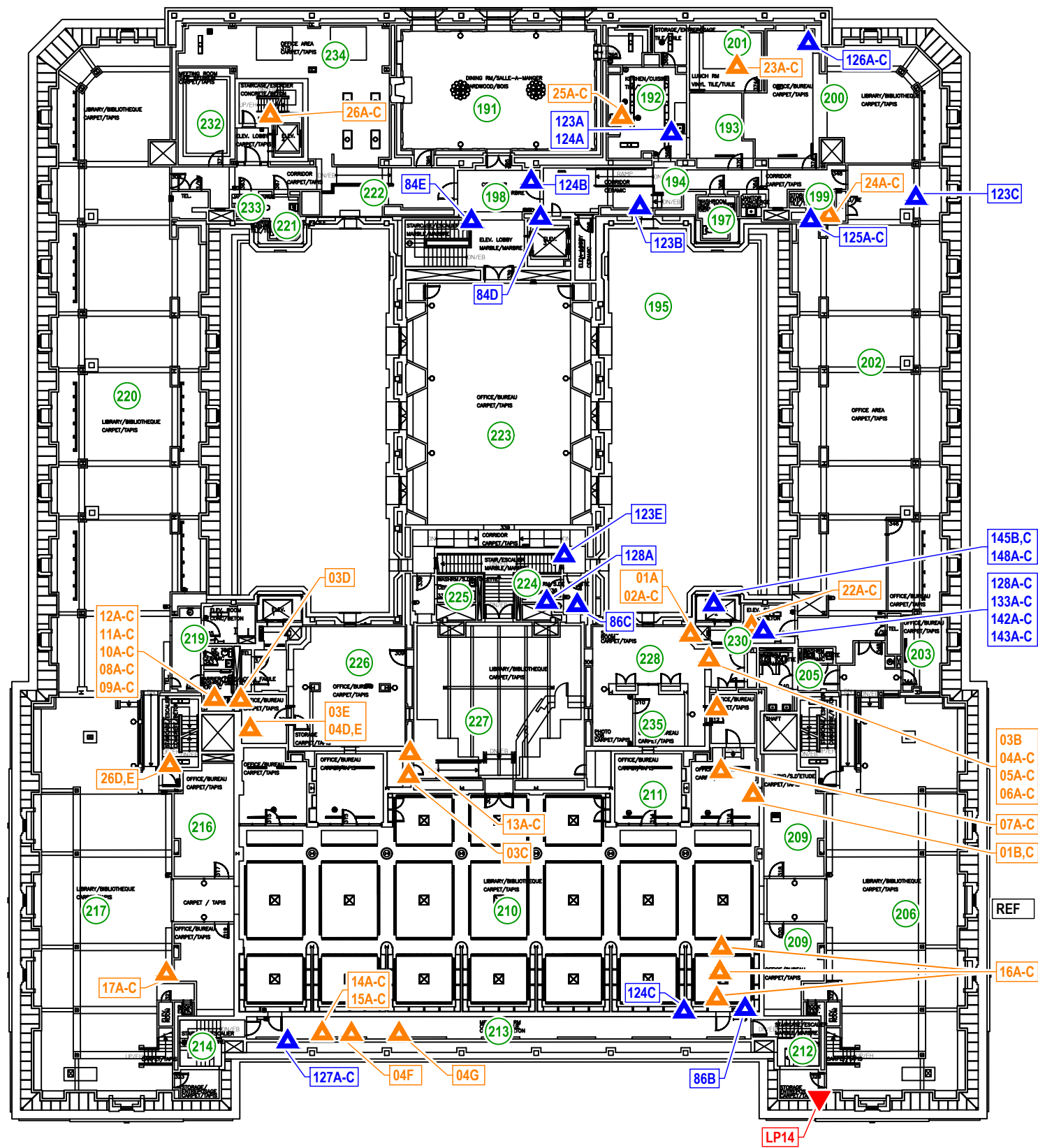
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- Note**
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 3. Base plan provided by client.

- Legend**
-  Approximate Bulk Asbestos Sample Location
 -  Approximate Lead Sample Location
 -  Approximate Bulk Asbestos Sample Location (2016)

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Revision	Date	Issue	Approval
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Public Services and Procurement Canada			
Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
Second Floor Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
K.M.		March 2021	
Approved By		Project No.	
		GV-OT-040333	
Figure No.		7	



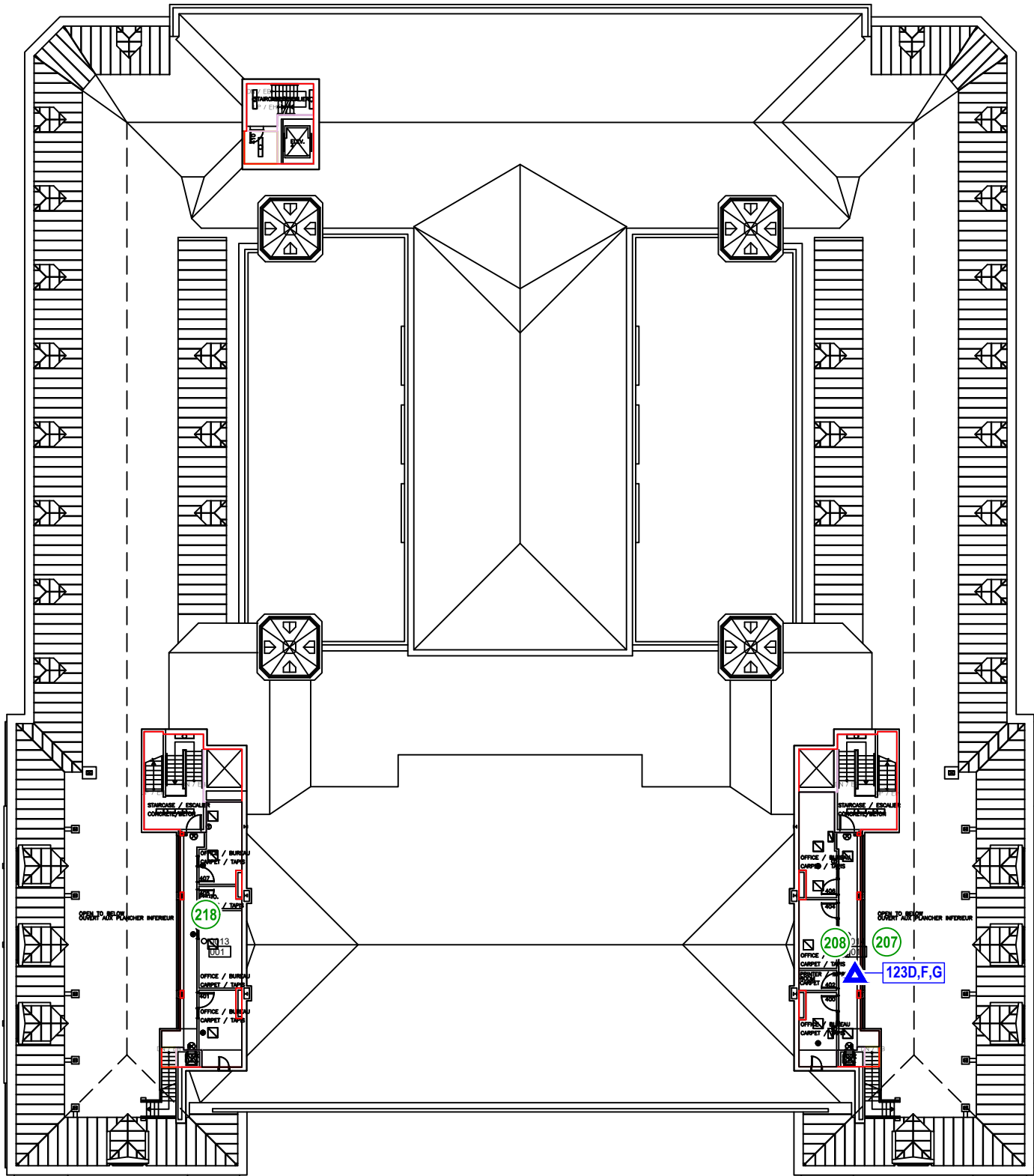
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2. Do not scale drawing.
3. Base plan provided by client.




Legend

- Approximate Bulk Asbestos Sample Location
- Approximate Lead Sample Location
- Approximate Bulk Asbestos Sample Location (2016)

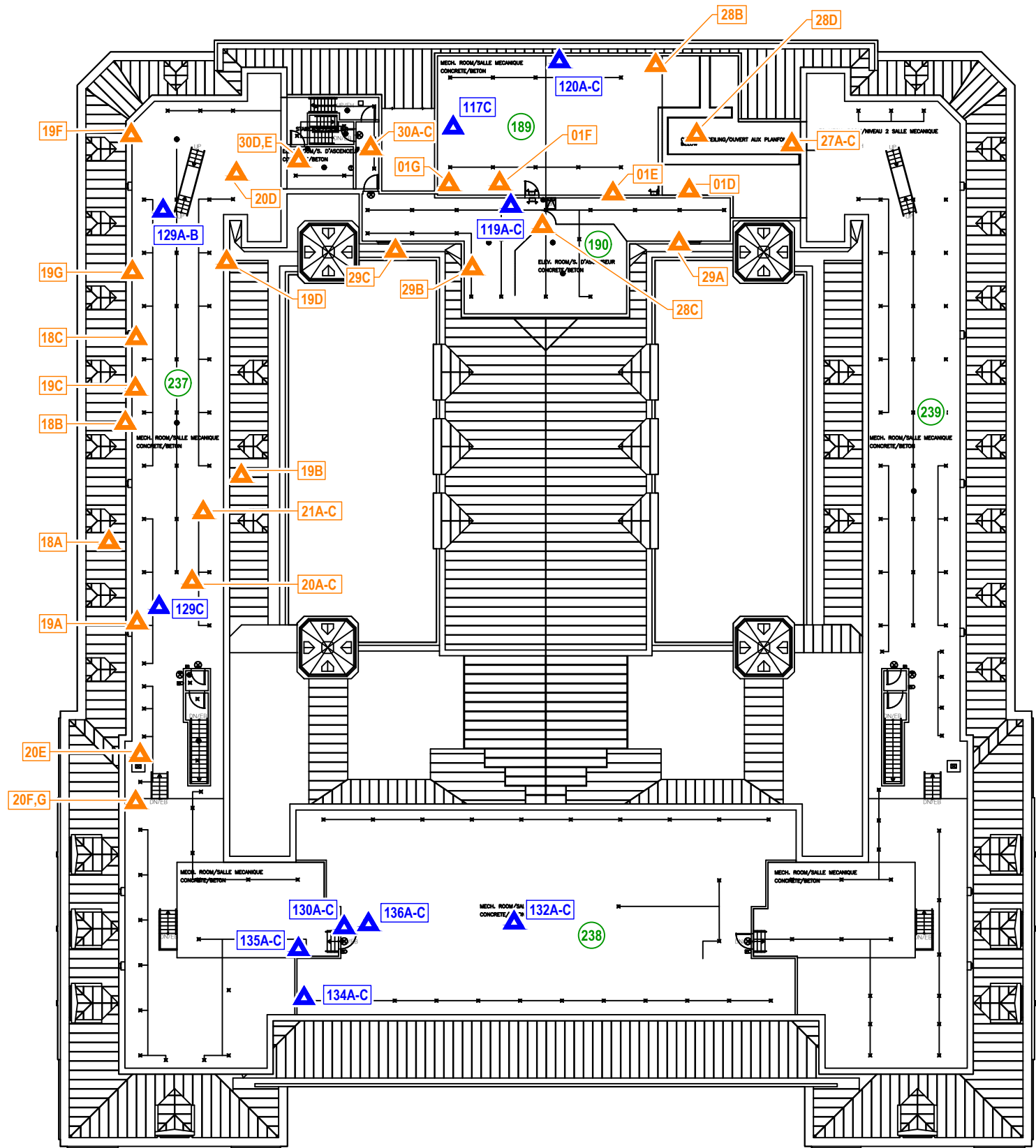
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Site			
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Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
Third Floor Bulk Asbestos & Lead Sampling Locations			
Designed By	A.E.	Scale	NTS
Drawn By	K.M.	Date	March 2021
Approved By		Project No.	GV-OT-040333
Figure No.	8		






- Note**
1. This drawing shall be read in conjunction with the associated technical report.
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 3. Base plan provided by client.

- Legend**
-  Approximate Bulk Asbestos Sample Location
 -  Approximate Lead Sample Location
 -  Approximate Bulk Asbestos Sample Location (2016)

0	03/10/2021	Original	
Revision	Date	Issue	Approval
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Public Services and Procurement Canada			
Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
Third Floor Mezzanine Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
K.M.		March 2021	
Approved By		Project No.	
		GV-OT-040333	
Figure No.		9	

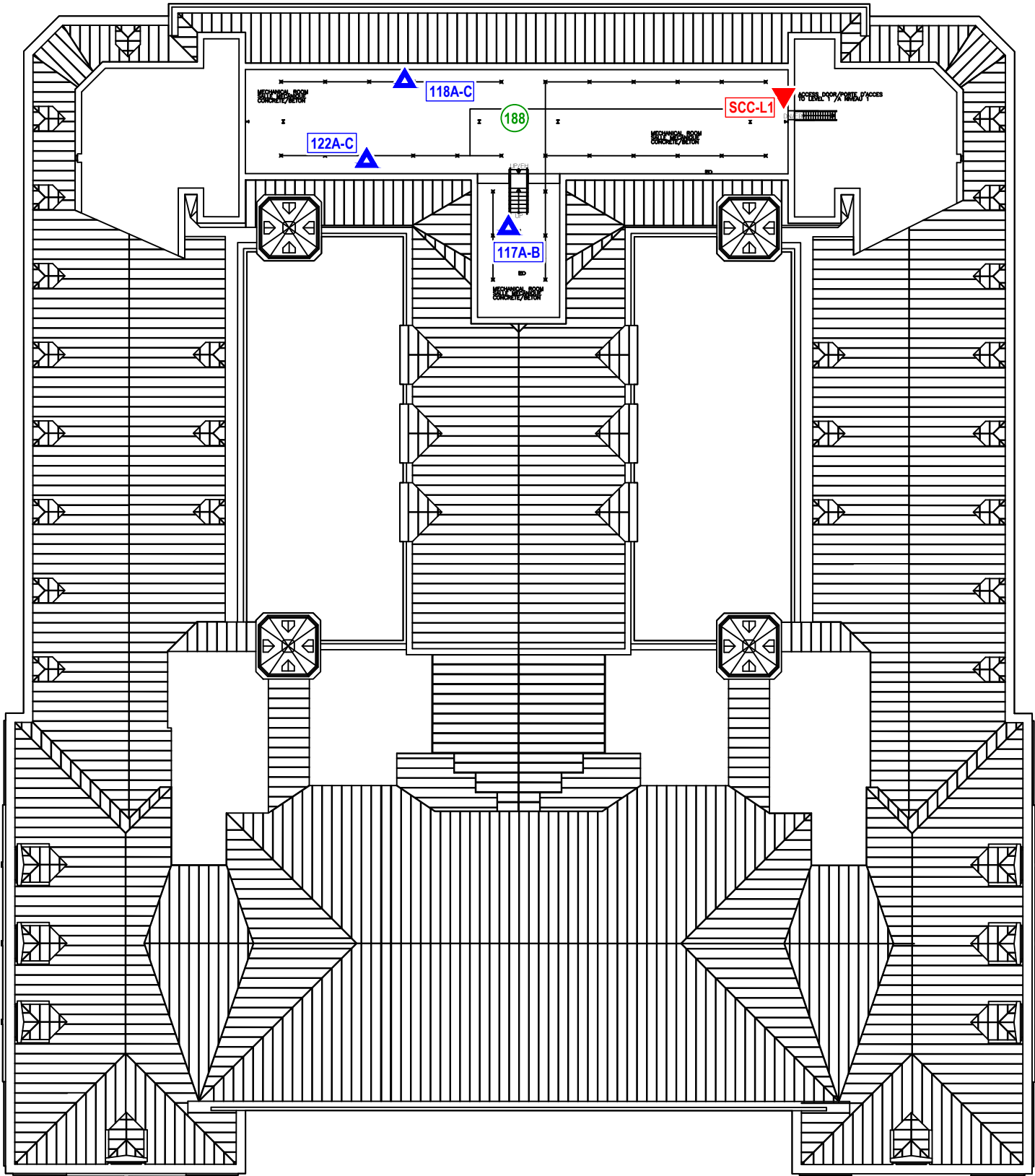


- Note**
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- Legend**
-  Approximate Bulk Asbestos Sample Location
 -  Approximate Lead Sample Location
 -  Approximate Bulk Asbestos Sample Location (2016)

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Revision	Date	Issue	Approval
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Public Services and Procurement Canada			
Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
First Mechanical Floor Bulk Asbestos & Lead Sampling Locations			
Designed By	A.E.		Scale
			NTS
Drawn By	K.M.		Date
			March 2021
Approved By			Project No.
			GV-OT-040333
Figure No.	10		

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- Note**
1. This drawing shall be read in conjunction with the associated technical report.
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 3. Base plan provided by client.

- Legend**
-  Approximate Bulk Asbestos Sample Location
 -  Approximate Lead Sample Location
 -  Approximate Bulk Asbestos Sample Location (2016)

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Revision	Date	Issue	Approval
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Site			
301 Wellington Street, Ottawa, ON			
Report Title			
Supreme Court of Canada Rehabilitation Project Designated Substance Survey and Asbestos Reassessment Survey			
Drawing Title			
Second Mechanical Floor Bulk Asbestos & Lead Sampling Locations			
Designed By		Scale	
A.E.		NTS	
Drawn By		Date	
K.M.		March 2021	
Approved By		Project No.	
		GV-OT-040333	
Figure No.			

Appendix B
Sample Results Tables

Table 1A: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2016)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
25657-01A	3 rd Floor, Outside Room 310	Terracotta Mortar	None Detected
25657-01B	3 rd Floor, Room 316		None Detected
25657-01C			None Detected
25657-01D	1 st Mechanical Floor		None Detected
25657-01E			None Detected
25657-01F			None Detected
25657-01G			None Detected
25657-02A	3rd Floor, Sitting Room, Adjacent to Elevator	Mortar Associated with Stone Wall Panels	1% Chrysotile
25657-02B			Not Analyzed, Positive stop
25657-02C			Not Analyzed, Positive stop
25657-03A	3 rd Floor	Drywall Joint compound	None Detected
25657-03B			None Detected
25657-03C			None Detected
25657-03D			None Detected
25657-03E			None Detected
25657-04A	3rd Floor	Plaster (white and grey layers)	1% Chrysotile
25657-04B			Not Analyzed, Positive stop
25657-04C			Not Analyzed, Positive stop
25657-04D			Not Analyzed, Positive stop
25657-04E			Not Analyzed, Positive stop
25657-04F			Not Analyzed, Positive stop
25657-04G			Not Analyzed, Positive stop
25657-05A	3 rd Floor, Sitting Room	Concrete Block Mortar	None Detected
25657-05B			None Detected
25657-05C			None Detected
25657-06A	3 rd Floor, Room 312	Tar on Cork Panels	None Detected
25657-06B			None Detected
25657-06C			None Detected
25657-07A	3 rd Floor, Room 316	Carpet Mastic	None Detected
25657-07B			None Detected
25657-07C			None Detected
25657-08A	3 rd Floor, Room 336, Mezzanine Area Above	Spray Fireproofing	None Detected
25657-08B			None Detected
25657-08C			None Detected
25657-08D			None Detected
25657-08E			None Detected
25657-08F			None Detected
25657-08G			None Detected
25657-09A	3 rd Floor, Room 336, Wall Hatch	Cementitious Floor Fill	None Detected
25657-09B			None Detected
25657-09C			None Detected

Table 1A: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2016)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
25657-10A	3 rd Floor, Room 336, Mezzanine Area Above	Tar Under Fiberglass Panels Associated With Mechanical Equipment	None Detected
25657-10B			None Detected
25657-10C			None Detected
25657-11A	3 rd Floor, Room 336, Mezzanine Area Above	White Cementitious Parging On Beams	None Detected
25657-11B			None Detected
25657-11C			None Detected
25657-12A	3 rd Floor, Room 336, Wall hatch	White Cementitious Parging On Vertical Column	None Detected
25657-12B			None Detected
25657-12C			None Detected
25657-13A	3rd Floor, Library, Closet Next to Room 309	Textured Cementitious Wall	1% Chrysotile
25657-13B			Not Analyzed, Positive Stop
25657-13C			Not Analyzed, Positive Stop
25657-14A	3 rd Floor, South Mechanical Corridor	Black Wall Membrane/Barrier	None Detected
25657-14B			None Detected
25657-14C			None Detected
25657-15A	3 rd Floor, South Mechanical Corridor	Drywall Joint Compound Pucks On Wall	None Detected
25657-15B			None Detected
25657-15C			None Detected
25657-16A	Mezzanine Mechanical Area Above Library (South)	Cementitious Parging Coat Applied To Ceiling Throughout	1% Chrysotile
25657-16B			Not analyzed, Positive Stop
25657-16C			Not analyzed, Positive Stop
25657-16D			Not analyzed, Positive Stop
25657-16E			Not analyzed, Positive Stop
25657-16F			Not analyzed, Positive Stop
25657-16G			Not analyzed, Positive Stop
25657-17A	Library, South-West	Tar Paper Inside Vent	None Detected
25657-17B			None Detected
25657-17C			None Detected
25657-18A	1st Mechanical Floor	Tar In Joints Of Pre-Cast Panels Throughout Interior Roofline	26.28% Chrysotile
25657-18B			None Detected
25657-18C			None Detected
25657-19A	1 st Mechanical Floor	Pre-Cast Panels Comprising Roofline	None Detected
25657-19B			None Detected
25657-19C			None Detected
25657-19D			None Detected
25657-19E			None Detected
25657-19F			None Detected
25657-19G			None Detected

Table 1A: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2016)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
25657-20A	1 st Mechanical Floor	Cementitious Floor Fill, Under Cork Floor	None Detected
25657-20B			None Detected
25657-20C			None Detected
25657-20D			None Detected
25657-20E			None Detected
25657-20F			None Detected
25657-20G			None Detected
25657-21A	1 st Mechanical Floor	Tar On Cork Associated With Ducts, Floor	None Detected
25657-21B			None Detected
25657-21C			None Detected
25657-22A	3 rd Floor, Room 342	Drywall joint compound	None Detected
25657-22B			None Detected
25657-22C			None Detected
25657-23A	3 rd Floor, Room 378, Lunch Room	12” X 12” (30cm x 30cm) Pink Vinyl Floor Tiles And Mastic	None Detected
25657-23B			None Detected
25657-23C			None Detected
25657-24A	3 rd Floor, Storage, Room 360	12” X 12” (30cm x 30cm) Vinyl Floor Tile, Grey With Streaks And Mastic	None Detected
25657-24B			None Detected
25657-24C			None Detected
25657-25A	3 rd Floor, Kitchen, Room 368	12” X 12” (30cm x 30cm) Vinyl Floor Tile, Grey With Grey Flecks And Mastic	None Detected
25657-25B			None Detected
25657-25C			None Detected
25657-26A	North-West Stairwell	Textured Coat On Walls	None Detected
25657-26B			None Detected
25657-26C			None Detected
25657-26D	West, Central, Stairwell		None Detected
25657-26E			None Detected
25657-27A	1 st Mechanical Floor	Plaster	1% Chrysotile
25657-27B			Not Analyzed, Positive Stop
25657-27C			Not Analyzed, Positive Stop
25657-28A	1 st Mechanical Floor	Drywall Joint Compound	None Detected
25657-28B			None Detected
25657-28C			None Detected
25657-29A	1 st Mechanical Floor	Tar On Cork Panels Throughout Roofline And Walls	None Detected
25657-29B			None Detected
25657-29C			None Detected
25657-30A	1 st Mechanical Floor And North Stairwell (Bottom Of Upper Landings)	Spray Fireproofing	None Detected
25657-30B			None Detected
25657-30C			None Detected
25657-30D			None Detected
25657-30E			None Detected

Table 1A: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2016)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
25657-31A	1st Floor, Room 150	Layered Cardboard Wrap Pipe Insulation	0.65% Chrysotile
25657-31B			Not Analyzed, Positive Stop
25657-31C			Not Analyzed, Positive Stop
25657-32A	1st Floor, Room 136	12" X 12" (30cm x 30cm) Vinyl Floor Tile , Beige	None Detected
25657-32B			None Detected
25657-32C			None Detected
25657-33A	1st Floor, Ground Floor	Plaster	1% Chrysotile
25657-33B			Not Analyzed, Positive Stop
25657-33C			Not Analyzed, Positive Stop
25657-33D			Not Analyzed, Positive Stop
25657-33E			Not Analyzed, Positive Stop
25657-33F			Not Analyzed, Positive Stop
25657-33G			Not Analyzed, Positive Stop
25657-34A	1st Floor, Room 153	Brick mortar	None Detected
25657-34B			None Detected
25657-34C			None Detected
25657-36A	Sub-basement, Room 0011	Mortar In Joints Associated With Block Wall	1% Chrysotile
25657-36B			Not Analyzed, Positive Stop
25657-36C			Not Analyzed, Positive Stop
25657-37A	Sub-basement, Room 0011	Mortar/Adhesive On Back Of Marble Panel	None Detected
25657-37B			None Detected
25657-37C			None Detected
25657-39A	Basement, Entryway to Sub-basement Mechanical Room	2'x2' (60cm x 60cm) Vinyl Flooring, Grey With White Streaks	Vinyl – None Detected Mastic – 0.56% Chrysotile
25657-39B			Vinyl – None Detected Mastic – Not analyzed
25657-39C			Vinyl – None Detected Mastic – Not analyzed
25657-40A	Basement, Entryway to Sub-basement Mechanical Room	2'x2' (60cm x 60cm) Vinyl Flooring, Black With White Streaks	Vinyl – None Detected Mastic – 0.6% Chrysotile
25657-40B			Vinyl – None Detected Mastic – Not analyzed
25657-40C			Vinyl – None Detected Mastic – Not analyzed
25657-42A	Sub-basement, Main Mechanical Room 003	Cementitious Ceiling Parge Throughout	None Detected
25657-42B			None Detected
25657-42C			None Detected
25657-42D			None Detected
25657-42E			None Detected
25657-42F			None Detected
25657-42G			None Detected

Table 1A: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2016)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
25657-43A	Ground Floor, Room 23	Layered Cardboard Wrap Pipe Insulation Debris	6.19% Chrysotile
25657-43B			Not Analyzed, Positive Stop
25657-43C			Not Analyzed, Positive Stop
25657-44A	Ground Floor and Basement	Drywall Joint Compound	None Detected
25657-44B			None Detected
25657-44C			None Detected
25657-44D			None Detected
25657-44E			None Detected
25657-45A	Ground Floor, West Federal Court, Interpreters Booth	1'x1' (30cm x 30cm) Ceiling Tile Mastic	None Detected
25657-45B			None Detected
25657-45C			None Detected
25657-46A	Ground Floor, East Federal Court, Interpreters Booth	1'x1' (30cm x 30cm) Ceiling Tile, Small Pinhole	None Detected
25657-46B			None Detected
25657-46C			None Detected
25657-47A	Basement, Room 078	12" X 12" (30cm x 30cm) Vinyl Floor Tile, Beige	Tile – 2.2% Chrysotile Mastic – 0.5% Chrysotile
25657-47B			Not Analyzed, Positive Stop
25657-47C			Not Analyzed, Positive Stop
25657-48A	Basement, Room 086, Storage Vault	12" X 12" (30cm x 30cm) Vinyl Floor Tile, Beige With Beige Streaks	Tile – 1.48% Chrysotile Mastic – 0.83% Chrysotile
25657-48B			Not Analyzed, Positive Stop
25657-48C			Not Analyzed, Positive Stop
25657-49A	North Walls of Catacombs	White Wall Parging	40% Chrysotile
25657-49B			Not Analyzed, Positive Stop
25657-49C			Not Analyzed, Positive Stop
25657-49D			Not Analyzed, Positive Stop
25657-49E	Sub-basement, Adjacent to Room 0039		Not Analyzed, Positive Stop
25657-50A	North walls of catacombs	Tar	<0.5% Chrysotile
25657-50B			<0.5% Chrysotile
25657-50C			28.62% Chrysotile
25657-51A	Sub-basement, Room 0047	Cementitious Floor Fill	None Detected
25657-51B			None Detected
25657-51C			None Detected
25657-52A			None Detected
25657-52B	Parking Garage, West Storage Room	2'x4' Ceiling Tile, Deep Fissures	None Detected
25657-52C			None Detected
25657-53A			None Detected
25657-53B	Parking Garage, West Storage Room	12" X 12" (30cm x 30cm) Vinyl Floor Tile, Grey	None Detected
25657-53C			None Detected

Table 1A: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2016)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
25657-54A	Basement, Room 071	Tar Membrane At Exterior Wall	None Detected
25657-54B			None Detected
25657-54C			None Detected
25657-55A	Basement, Room 021	Spray Fireproofing	None Detected
25657-55B			None Detected
25657-55C			None Detected
25657-56A	Basement, Room 021	12" X 12" (30cm x 30cm) Vinyl Floor Tile, Beige And Mastic	Tile –None Detected Mastic - <0.5%
25657-56B			None Detected
25657-56C			Tile –None Detected Mastic - <0.5%
25657-58A	Sub-Basement, Room 0088, Upper Mezzanine - at top of ladder	Textured Wall Coat	None Detected
25657-58B			None Detected
25657-58C			None Detected
25657-60A	Parking Garage, East Side in Hut	12" X 12" (30cm x 30cm) Vinyl Floor Tile, Grey	None Detected
25657-60B			None Detected
25657-60C			None Detected
25657-61A	2 nd Floor, West Stairwell	12" X 12" (30cm x 30cm) Vinyl Floor Tile, Beige With Grey Streaks And Mastic	None Detected
25657-61B			None Detected
25657-61C			None Detected

***Bold** items exceed the 0.5% regulated concentration of asbestos, as per O.Reg. 278/05, as amended.

Note: Samples Series 25657-35, 25657-38, 25657-41, 25657-57, and 25657-59 were not submitted to the laboratory based on past consultant laboratory data and are thus not included in Table 1.

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 62A	Ramp to Catacombs, Location 1	Grey Duct Sealant/Mastic	None Detected
040333 – 62B			None Detected
040333 – 62C			None Detected
040333 – 63A	Ramp to Catacombs, Location 1	Grey Parging at Pipe/Duct Penetrations	None Detected
040333 – 63B	Sub Basement Room Behind 0039, Location 11		None Detected
040333 – 63C	Ramp to Catacombs, Location 1		None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 65A	Catacombs ‘D1’, Location 2, Walls	Mortar Associated with Red Brick	None Detected
040333 – 65B	Basement Inside Wall Hatch of Janitor Closet, Location 49		None Detected
040333 – 65C	Sub Basement, Northeast Shaft Across From 089, Location 85		None Detected
040333 – 65D	Sub Basement Floor, 0088, Location 263		None Detected
040333 – 65E	Sub Basement, Storage Behind PSPC Offices, Location 266		None Detected
040333 – 66A	Sub Basement, Room 0020 NE Corridor, Location 8	Rough Parge Patch (Wall)	1% Tremolite Asbestos
040333 – 66B			Positive Stop – Not Analyzed
040333 – 66C			Positive Stop – Not Analyzed
040333 – 67A	Sub Basement, Room 0017, Location 10	Red Fire Stop	None Detected
040333 – 67B	Sub Basement, Tunnel, Location 14		None Detected
040333 – 67C			None Detected
040333 – 68A	Sub Basement, Corridor 0047 (NW), Location 13	Drywall Joint Compound (Ceiling)	None Detected
040333 – 68B			None Detected
040333 – 68C			None Detected
040333 – 69A	Sub Basement, Tunnel, Location 14	Rough Parge Patch (Ceiling)	None Detected
040333 – 69B			None Detected
040333 – 69C			None Detected
040333 – 70A	Sub Basement, Room 0011 Location 15	Tar Insulation Inside AHU Units	None Detected
040333 – 70B			None Detected
040333 – 70C			None Detected
040333 – 71A	Sub Basement, Room 0010 Location 16, inside AHU unit #11	Brown Duct Mastic	2% Chrysotile Asbestos
040333 – 71B			Positive Stop – Not Analyzed
040333 – 71C			Positive Stop – Not Analyzed

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 72A	Sub Basement, Room 008, Location 23	Drywall Joint Compound (wall)	None Detected
040333 – 72B			None Detected
040333 – 72C	Sub Basement outside PSPC office in South Mechanical Room 004, Location 24		None Detected
040333 – 72D	Sub Basement, Stairwell, Location 25		1% Tremolite Asbestos
040333 - 72E	Sub Basement, Room 0098, Location 259		White - 1% Chrysotile Asbestos Beige – 2% Chrysotile Asbestos
040333 – 74A	Sub Basement, Stairwell, Location 25	Yellow Vinyl Baseboard Mastic	None Detected
040333 – 74B			None Detected
040333 – 74C			None Detected
040333 – 75A	Sub Basement, Stairwell, Location 25	White Door Caulking	None Detected
040333 – 75B			None Detected
040333 – 75C			None Detected
040333 – 76A	Sub Basement, Room 0021, Location 9	Parging at Base of Wall	None Detected
040333 – 76B			None Detected
040333 – 76C			None Detected
040333 – 77A	Sub Basement Location 10 - Central Mechanical Room	Floor Grout Associated With Red Bricks	None Detected
040333 – 77B			None Detected
040333 – 77C	Sub Basement Location 24, South Mechanical Room		None Detected
040333 – 78A	Sub Basement, Location 10, Room 0017 - Central Mechanical Room	Grey/Brown Caulking inside AHU Units 1, 2 and 4	2% Chrysotile Asbestos
040333 – 78B			Positive Stop – Not Analyzed
040333 – 78C			Positive Stop – Not Analyzed

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 79A	Basement, Room 018, Location 30	Drywall Joint Compound	None Detected
040333 – 79B	Basement, Room 015, Location 33		1% Chrysotile Asbestos
040333 – 79C	Basement, Room 041 Location 41		None Detected
040333 – 79D	Basement, Room 045, Location 45, Fire Panel		None Detected
040333 – 79E	Basement, Room 021, Location 53		None Detected
040333 – 79F	Basement, West Exit, Location 55		None Detected
040333 – 79G	Basement, Corridor Outside 049, Location 61		None Detected
040333 – 80A	Basement, Room 045, Location 45, Fire Panel	Brown Vinyl Baseboard Mastic	None Detected
040333 – 80B			None Detected
040333 – 80C			None Detected
040333 – 81A	Basement, Room 045, Location 45, Fire Panel	Red Sticky Firestop	None Detected
040333 – 81B			None Detected
040333 – 81C			None Detected
040333 – 82A	Basement, Room 045, Location 45, Fire Panel (Deck)	Wall and Ceiling Plaster (White and Grey)	White Layer: 1% Chrysotile Asbestos Grey Layer: 1% Chrysotile Asbestos
040333 – 82B	Basement, Room 040 Location 44 (Deck)		White Layer: 1% Chrysotile Asbestos Grey Layer: 1% Chrysotile Asbestos
040333 – 82C	Basement, South Corridor, Location 50 (Deck)		White Layer: 1% Chrysotile Asbestos Grey Layer: 1% Chrysotile Asbestos
040333 – 82D	Basement, Northeast Stairwell, Location 69 (Walls And Deck)		White Layer: None Detected Grey Layer: None Detected
040333 – 82E	Basement, East Corridor, Location 79 (Walls)		White Layer: None Detected Grey Layer: 1% Tremolite Asbestos

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 82F	Basement, Room 045, Location 45, Fire Panel (Deck)		White Layer: Not Present Grey Layer: 1% Chrysotile Asbestos
040333 – 82G	Basement, Room 040, Location 43 (Deck)		White Layer: 1% Chrysotile Asbestos Grey Layer: 1% Chrysotile Asbestos
040333 – 83A	Basement inside wall hatch of Janitor Closet, Location 49	Grout Inside Clay Tiles	None Detected
040333 – 83B			None Detected
040333 – 83C			None Detected
040333 – 84A	Basement, Southwest Marble Stairwell, Location 52	Grey Marble Grout (Stairway and halls)	None Detected
040333 – 84B			None Detected
040333 – 84C			None Detected
040333 – 84D	3 rd Floor, Judges Elevator (North Central), Location 196		None Detected
040333 – 84E			None Detected
040333 – 85A	Basement, Room 019, Location 54	2' x 2' Vinyl Floor Tile (White Marble Pattern and Associated Yellow Mastic)	VFT: None Detected Mastic: None Detected
040333 – 85B			VFT: None Detected Mastic: None Detected
040333 – 85C			VFT: None Detected Mastic: None Detected
040333 – 86A	Basement, West offices, Location 56	Grey Floor Leveling Compound	None Detected
040333 – 86B	Third Floor, Library Location 210		None Detected
040333 – 86C	Third Floor Location 223		None Detected
040333 – 87A	Basement, Women’s Washroom 069, Location 57	Ceramic Tile Grout	None Detected
040333 – 87B			None Detected
040333 – 87C			None Detected
040333 – 88A	Basement, NW Elevator Lobby Near Library Stacks, Location 60, Walls	Rough Coat (White)	None Detected
040333 – 88B			None Detected
040333 – 88C			None Detected
040333 – 89A	Basement, North Corridor, Location 62	Tan Glazed Brick Mortar (2 Different Sizes)	None Detected
040333 – 89B			None Detected
040333 – 89C			None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 91A	Basement, Room 072, Location 73	Tan Caulking on Radiators	None Detected
040333 – 91B			None Detected
040333 – 91C			None Detected
040333 – 92A	Basement, Room 072, Location 73	White Fibre Insulation Associated with Radiators	15% Amosite Asbestos
040333 – 92B	1 st Floor Main Courtroom 145, Location 162		Positive Stop – Not Analyzed
040333 – 92C			Positive Stop – Not Analyzed
040333 – 93A	Basement, East Corridor, Location 79	Grey Vinyl Sheet Flooring	None Detected
040333 – 93B			None Detected
040333 – 93C			None Detected
040333 – 94A	Basement, East Security Sign in, Location 80	Marble Floor Grout	None Detected
040333 – 94B			None Detected
040333 – 94C			None Detected
040333 – 95A	Basement, East Security Sign in, Location 80	Grey Caulking Associated with Marble	None Detected
040333 – 95B			None Detected
040333 – 95C			None Detected
040333 – 96A	Basement, East Security Sign in, Location 80	2'x2' (60cm x 60cm) Textured Ceiling tile	None Detected
040333 – 96B			None Detected
040333 – 96C			None Detected
040333 – 97A	Sub Basement, Room 0052, Location 91	12" X 12" (30cm x 30cm) Vinyl Floor Tile – Blue with Blue Flecks and Associated Mastic	VFT: None Detected Mastic: None Present
040333 – 97B			VFT: None Detected Mastic: None Present
040333 – 97C			VFT: None Detected Mastic: None Present
040333 – 98A	Sub Basement, North Corridor, Location 94	Tan & Grey Sheet Floor and Associated Mastic	VST: None Detected Mastic: None Present
040333 – 98B			VST: None Detected Mastic: None Detected
040333 – 98C			VST: None Detected Mastic: None Present
040333 – 99	Sub Basement, North (NW) Corridor, Location 94 (above ceiling tiles)	Plaster Debris	1% Chrysotile Asbestos

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 100A	Sub Basement, Library Stacks 1, Location 96	Expansion Gap Caulking	None Detected
040333 – 100B			None Detected
040333 – 100C			None Detected
040333 – 101A	Parking Garage Commissionaire Lounge, Location 97	Drywall Joint Compound	None Detected
040333 – 101B	Parking Garage, Storage Room 0107, Location 99		None Detected
040333 – 101C	Parking Garage, Stairwell East, Location 105		None Detected
040333 – 102A	Parking Garage, Storage Room 0107, Location 99	Brown Mastic Associated with Grey VFT	None Detected
040333 – 102B			None Detected
040333 – 102C			None Detected
040333 – 103A	Parking Garage, Car Wash Bay, Location 102	Grey Caulking on Transite	None Detected
040333 – 103B			None Detected
040333 – 103C			None Detected
040333 – 104A	Ground Floor Main South Entrance, Location 106, Walls	Tan Marble Grout	None Detected
040333 – 104B			None Detected
040333 – 104C			None Detected
040333 – 105A	Ground Floor Main South Entrance Telecon Closets, Location 106, Wall	Wall and Ceiling Plaster (Smooth over Rough)	White Layer: None Detected Grey Layer: None Detected
040333 – 105B			White Layer: None Detected Grey Layer: None Detected
040333 – 105C	Ground Floor, Room 17, Location 118, Wall		White Layer: None Detected Grey Layer: None Detected
040333 – 105D	Ground floor, Kitchen, Location 128, Wall		White Layer: None Detected Grey Layer: None Detected
040333 – 105E	Ground Floor, North East Stairwell, Location 135, Deck		White Layer: None Detected Grey Layer: None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 105F	Ground Floor, Room 64A/B Washroom, Location 139, Deck		White Layer: None Detected Grey Layer: None Detected
040333 – 105G	Ground Floor, Pipe Shaft, Location 143, Wall		White Layer: None Detected Grey Layer: None Detected
040333 – 106A	Ground Floor, Washroom 10, Location 108, Walls	Marble Grout in Washrooms	None Detected
040333 – 106B			None Detected
040333 – 106C			None Detected
040333 – 107A	Ground Floor, Washroom 10, Location 108	Caulking on Showers	None Detected
040333 – 107B			None Detected
040333 – 107C			None Detected
040333 – 108A	Ground Floor, Sound Booth, Location 111	1' x 1' (30cm x 30cm) Pinhole and Fleck Pattern Ceiling tiles and Associated Mastic Pucks	CT: None Detected Mastic: None Detected
040333 – 108B			CT: None Detected Mastic: None Detected
040333 – 108C			CT: None Detected Mastic: None Detected
040333 – 109A	Ground Floor, Room 20, Location 112	Drywall Joint Compound	None Detected
040333 – 109B	Ground Floor, Room 21, Location 120		None Detected
040333 – 109C	Ground floor, Kitchen, Location 128		None Detected
040333 – 109D			None Detected
040333 – 109E	Ground Floor, Room 20, Location 112		None Detected
040333 – 110A	Ground Floor Office 33/34, Location 152	Wood Mastic Under Baseboards	None Detected
040333 – 110B			None Detected
040333 – 110C			None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 111A	1 st Floor, Room 106, Location 154	Wall and Ceiling Plaster	White Layer: None Detected
040333 – 111B	1 st Floor, Southwest Stairwell, Location 157		White Layer: 1% Chrysotile Asbestos
040333 – 111C	1 st Floor Room 194/195A/B, Location 175		White Layer: 1% Chrysotile Asbestos
040333 – 111D	1 st Floor, Room 166, Location 181		White Layer: 1% Chrysotile Asbestos
040333 – 111E	1 st Floor, Kitchen, Location 182		White Layer: 0.5% Chrysotile Asbestos
040333 – 111F			White Layer: 0.5% Chrysotile Asbestos
040333 – 111G			White Layer: 1% Chrysotile Asbestos
040333 – 112A	1 st Floor Southeast Stairwell, Location 155	Marble Grout (Floor)	None Detected
040333 – 112B			None Detected
040333 – 112C			None Detected
040333 – 113A	1 st Floor Dames Washroom/Changeroom, Location 159	Cement Panel (Looks Like Transite)	None Detected
040333 – 113B			None Detected
040333 – 113C			None Detected
040333 – 114A	1 st Floor Sound Booth room 138, Location 173	12” X 12” (30cm x 30cm) VFT Beige With White Specks and Associated Yellow Mastic	VFT: None Detected Mastic: None Detected
040333 – 114B			VFT: None Detected Mastic: None Detected
040333 – 114C			VFT: None Detected Mastic: None Detected
040333 – 115A	1 st Floor Room 194/195A/B, Location 175	Drywall Joint Compound	None Detected
040333 – 115B	1 st Floor 120, Location 180		None Detected
040333 – 115C			None Detected
040333 – 115D	1 st Floor Room 194/195A/B, Location 175		None Detected
040333 – 115E	1 st Floor 120, Location 180		None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 116A	1 st Floor, Sound Booth, Location 172	12" X 12" (30cm x 30cm) Beige With White Spots And Blue Spider Pattern And Associated Black Mastic	VFT: None Detected Mastic: None Detected
040333 – 116B			VFT: None Detected Mastic: None Detected
040333 – 116C			VFT: None Detected Mastic: None Detected
040333 – 117A	2 nd Mechanical Room, Location 188	Dark Grey Caulking on Duct Hatch	None Detected
040333 – 117B			None Detected
040333 – 117C	1 st Mechanical Penthouse, Location 189		None Detected
040333 – 118A	2 nd Mechanical Room, Location 188	Tar patch job	None Detected
040333 – 118B			None Detected
040333 – 118C			None Detected
040333 – 119A	1 st Mech Penthouse, Location 189	Drywall Joint Compound	None Detected
040333 – 119B			None Detected
040333 – 119C			None Detected
040333 – 121A	1 st Mechanical Penthouse, Location 189	Wall Plaster (Smooth Over Rough)	White Layer: None Detected Grey Layer: None Detected
040333 – 121B			White Layer: None Detected Grey Layer: None Detected
040333 – 121C			White Layer: None Detected Grey Layer: None Detected
040333 – 122A	2 nd Mechanical Penthouse, Location 188	Cementitious Floor Fill Patches	None Detected
040333 – 122B			None Detected
040333 – 122C			None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 123A	3 rd Floor, Room 368 Kitchen, Location 192	Drywall Joint Compound	None Detected
040333 – 123B	3 rd Floor, Hall 391, Location 194		None Detected
040333 – 123C	3 rd Floor, Room 348, Location 202		None Detected
040333 – 123D	3 rd Floor Mezzanine Corridor, Location 207		None Detected
040333 – 123E	3 rd Floor, Hall between Location 223 and 227		None Detected
040333 – 123F	3 rd Floor Mezzanine Corridor, Location 207		None Detected
040333 – 123G			None Detected
040333 – 124A	3 rd Floor, Room 368 Kitchen, Location 192	Wall Plaster (Smooth over Rough)	White Layer: None Detected
040333 – 124B	3 rd Floor, Hall 391, Location 194		White Layer: None Detected
040333 – 124C	3 rd Floor, South corridor behind library, Location 213		White Layer: None Detected
040333 – 124D	3 rd Floor, Room 368 Kitchen, Location 192		White Layer: None Detected
040333 – 124E			White Layer: None Detected
040333 – 125A	3 rd Floor, Room 360, Location 199	2' x 2' (60cm x 60cm) Ceiling Tile – Random Tiny Pinhole	None Detected
040333 – 125B			None Detected
040333 – 125C			None Detected
040333 – 126A	3 rd Floor, Room 374, Location 200	Black Floor Mastic Under Carpet	<MDL Amosite
040333 – 126B			None Detected
040333 – 126C			None Detected
040333 – 127A	3 rd Floor, South Corridor Behind Library, Location 213	Tar Membrane	None Detected
040333 – 127B			None Detected
040333 – 127C			None Detected
040333 – 128A	3 rd Floor, Elevator Mechanical Room 342, Location 230	Tar Layer Strip	None Detected
040333 – 128B			None Detected
040333 – 128C			None Detected
040333 – 129A	1 st Mechanical Penthouse (Northwest), Location 237	Brick Mortar/Parge on Ductwork	None Detected
040333 – 129B			None Detected
040333 – 129C			None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 130A	1 st Mechanical Penthouse (Northwest), Location 237	Grey Rigid Caulking	None Detected
040333 – 130B			None Detected
040333 – 130C			None Detected
040333 – 131A	1 st Mechanical Penthouse, Central, Location 238	Grey/White Caulking on AHU units (S2 & S5)	None Detected
040333 – 131B			None Detected
040333 – 131C			None Detected
040333 – 132A	1 st Mechanical Penthouse, Central, Location 238	Thick gummy Caulking base of AHU Units	None Detected
040333 – 132B			None Detected
040333 – 132C			None Detected
040333 – 133A	3 rd Floor, Elevator Mechanical Room 342 Up ladder, Location 230	Tar on Steel Beams	None Detected
040333 – 133B			None Detected
040333 – 133C			None Detected
040333 – 134A	1 st Mech Penthouse, Central, Location 238	Tan Caulking Between Floor and Rooftop	None Detected
040333 – 134B			None Detected
040333 – 134C			None Detected
040333 – 135A	1 st Mech Penthouse, Central, Location 238,	Brown Parge Patch	None Detected
040333 – 135B			None Detected
040333 – 135C			None Detected
040333 – 136A	Ground Floor Room 87, Location 128	12” X 12” (30cm x 30cm) VFT Pink with Grey Dots and Associated Black Mastic	VFT: None Detected Mastic: None Detected
040333 – 136B			VFT: None Detected Mastic: None Detected
040333 – 136C			VFT: None Detected Mastic: None Detected
040333 – 137A	1 st Floor, Men’s Changeroom 120, Location 187	Large Tan Block Mortar	None Detected
040333 – 137B			None Detected
040333 – 137C			None Detected
040333 – 137D	2 nd Floor, Women’s Washroom, Location 255		None Detected
040333 – 137E			None Detected
040333 – 138A	1 st Floor Main Court, Location 162	Parge associated with Radiators	5% Chrysotile Asbestos
040333 – 138B			Positive Stop – Not Analyzed
040333 – 138C			Positive Stop – Not Analyzed

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 139A	2 nd Floor, Janitors closet room 250, Location 246 (Wall)	Wall and Ceiling Plaster (Smooth over Rough)	White Layer: None Detected Grey Layer: None Detected
040333 – 139B			White Layer: 1% Chrysotile Asbestos Grey Layer: None Detected
040333 – 139C			White Layer: None Detected Grey Layer: 1% Chrysotile Asbestos
040333 – 140A	2 nd Floor, Room 257, Location 257	Drywall Joint Compound	None Detected
040333 – 140B			None Detected
040333 – 140C			None Detected
040333 – 141A	Sub Basement Floor, Mezz 0088, Location 263	Black Caulking on Duct Hatch	8% Chrysotile Asbestos
040333 – 141B			Positive Stop- Not Analyzed
040333 – 141C			Positive Stop- Not Analyzed
040333 – 142A	Flat Rooftop Above Room 342, Location 230	Grey Parging on Roof Hatch	1% Chrysotile Asbestos
040333 – 142B			Positive Stop – Not Analyzed
040333 – 142C			Positive Stop – Not Analyzed
040333 – 143A	Flat Rooftop Above Room 342, Location 230	White Flaky Caulking (Rooftop)	None Detected
040333 – 143B			None Detected
040333 – 143C			None Detected
040333 – 144A	West Elevator Shaft walls, Location A	Parging/Rough Coat	<MDL asbestos
040333 – 144B			None Detected
040333 – 144C			None Detected
040333 – 144D	East Elevator Shaft walls, Location B		None Detected
040333 – 144E			None Detected
040333 – 145A	North East Elevator Pit, Location B	Tar Patch (Several Locations)	None Detected
040333 – 145B	North East Elevator Shaft Walls, Location B		None Detected
040333 – 145C			None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 146A	Judges Elevator Shaft/Pit walls, Location C	Thin Parging/Rough Coat	1% Chrysotile asbestos
040333 – 146B			Positive Stop, Not Analyzed
040333 – 146C			Positive Stop, Not Analyzed
040333 – 146D			Positive Stop, Not Analyzed
040333 – 146E			Positive Stop, Not Analyzed
040333 – 147A	Elevator near Library Stacks (North), Location D	White Cementitious Wall Material	None Detected
040333 – 147B			None Detected
040333 – 147C			None Detected
040333 – 147D			None Detected
040333 – 147E			None Detected
040333 – 148A	East Elevator Shaft walls, Location B	Vapour Barrier Membrane With Tar	None Detected
040333 – 148B			None Detected
040333 – 148C			None Detected
040333 – 149A	Sub Basement Room 0020	Parging on Steel Column	None Detected
040333 – 149B			None Detected
040333 – 149C			None Detected
040333 – 150A	2 nd Floor Room 206E	Yellow Carpet Mastic	None Detected
040333 – 150B	Basement Room 015		None Detected
040333 – 150C	Basement North Corridor		None Detected
040333 – 151A	West Elevation around Bay Doors	Exterior Black Caulking	None Detected
040333 – 151B			None Detected
040333 – 151C			None Detected
040333 – 152A	West Elevation Wall (near parking garage entrance)	Exterior Sandy Mortar	None Detected
040333 – 152B			None Detected
040333 – 152C			None Detected
040333 – 153A	West Elevation Wall (near parking garage entrance)	Exterior Parging on Columns	None Detected
040333 – 153B			None Detected
040333 – 153C			None Detected

Table 1B: Summary of Bulk Samples Analyzed for Asbestos Content by Polarized Light Microscopy (PLM) (DST 2020)			
Sample I.D.	Sample Location	Material Description	Asbestos %
040333 – 154A	West Elevation Wall	Exterior Stone Mortar	None Detected
040333 – 154B			None Detected
040333 – 154C			None Detected
040333 – 154D			None Detected
040333 – 154E			None Detected
040333 – 154F			None Detected
040333 – 154G			None Detected
040333 – 155A	West Elevation Wall around Sprinkler Connection	Exterior Grey Gummy Caulking	None Detected
040333 – 155B			None Detected
040333 – 155C			None Detected
040333 – 156A	West Elevation Wall along top of Stone Blocks	Exterior Light Grey Caulking	None Detected
040333 – 156B			None Detected
040333 – 156C			None Detected
040333-RA-1	West Rooftop	Roofing Layers	None Detected
040333-RA-2			None Detected
040333-RA-3			None Detected

***Bold** items exceed the 0.5% regulated concentration of asbestos, as per O.Reg. 278/05, as amended.

Note: Samples Series 040333-64, 040333-73, 040333-90, and 040333-120 were not submitted to the laboratory based on past consultant laboratory data and are thus not included in Table 1b.

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-STSBA2-01A	Sub basement, Stairwell STSBA2, Location 25	Plaster: White over Grey Layers	White: None Detected Grey: 1% Tremolite
040333-STSBA2-01B			White: None Detected Grey: Positive Stop, Not Analyzed
040333-STSBA2-01C			White: None Detected Grey: Positive Stop, Not Analyzed

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-GRN (SB) -01A	Sub Basement Room 0010K	Drywall Joint Compound	None Detected
040333-GRN (SB) -01B			None Detected
040333-GRN (SB) -01C			None Detected
040333-BLUEDASH(S B) -01A	Sub Basement, Stairwell south of library stacks	Drywall Joint Compound	None Detected
040333-BLUEDASH(S B) -01B			None Detected
040333-BLUEDASH(S B) -01C			None Detected
040333-BLUEDASH(S B) -02A	Sub Basement, stairwell south of library stacks	Texture Coat: White over Grey Layers	White: None Detected Grey: None Detected
040333-BLUEDASH(S B) -02B			White: None Detected Grey: None Detected
040333-BLUEDASH(S B) -02C			White: None Detected Grey: None Present
040333-GRY(SB) -01A	Sub Basement Library Stack	Drywall Joint Compound	Off White: None Detected
040333-GRY(SB) -01B	Sub Basement Room 0079		Off White: None Detected
040333-GRY(SB) -01C	Sub Basement Room 0099		White: 1% Chrysotile Asbestos
040333-GRY(SB) -01D	Sub Basement Room 0096		Off White: 1% Chrysotile Asbestos
040333-GRY(SB) -01E	Sub Basement CRSB1 RCMP office area		Off White: None Detected
040333-GRY(SB) -01F	Sub Basement Room 0088		White: None Detected
040333-GRY(SB) -01G	Sub Basement Room 0014		White: None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-GRY(SB) -02A	Sub Basement Library Stacks, Columns	Texture Coat: White Layer	None Detected
040333-GRY(SB) -02B			None Detected
040333-GRY(SB) -02C			None Detected
040333-BLU(B) -01A	Basement, South Corridor CRBS, Wall	Drywall Joint Compound	None Detected
040333-BLU(B) -01B	Basement, Room 018, Bulkhead		1% Chrysotile Asbestos
040333-BLU(B) -01C	Basement, Room 033, Wall		None Detected
040333-BLU(B) -01D	Basement, Room 034, Wall		None Detected
040333-BLU(B) -01E	Basement, Room 041, Wall		None Detected
040333-BLUDASH(B) -01A	Basement, Room 040, Wall	Drywall Joint Compound	None Detected
040333-BLUDASH(B) -01B	Basement, Room 095, Wall		None Detected
040333-BLUDASH(B) -01C	Basement, Room 038, Wall		None Detected
040333-PURPLE(B) -01A	Basement, Room 022, Wall	Drywall Joint Compound	None Detected
040333-PURPLE(B) -01B			None Detected
040333-PURPLE(B) -01C			None Detected
040333-ORG(B) -01A	Basement, Room 021, Wall	Drywall Joint Compound	None Detected
040333-ORG(B) -01B			1% Chrysotile Asbestos
040333-ORG(B) -01C	Basement, Room 020, Wall		None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-GRY(B) -01A	Basement WB Stairwell, Wall	Drywall Joint Compound	None Detected
040333-GRY(B) -01B			None Detected
040333-GRY(B) -01C	Basement WB Stairwell, Ceiling		None Detected
040333-REDDASH(B) -01A	Basement, Room 094, Wall	Drywall Joint Compound	None Detected
040333-REDDASH(B) -01B			None Detected
040333-REDDASH(B) -01C			None Detected
040333-GRN(B) -01A	Basement, Room 098K, Wall	Drywall Joint Compound	Tan: 1% Chrysotile Asbestos
040333-GRN(B) -01B			None Detected
040333-GRN(B) -01C			Tan: 1% Chrysotile Asbestos
040333-GRN(B) -02A	Basement North Corridor, Ceiling	Plaster – White	None Detected
040333-GRN(B) -02B			None Detected
040333-GRN(B) -02C			None Detected
040333-PINK(B) -01A	Basement North Corridor outside EV4, Wall	Drywall Joint Compound	None Detected
040333-PINK(B) -01B	Basement, Room 087, Wall		None Detected
040333-PINK(B) -01C	Basement, Room 059, Wall		None Detected
040333-PINK(B) -01D	Basement Corridor south of STB3, Wall		Tan:1% Chrysotile Asbestos
040333-PINK(B) -01E	Basement Corridor north of 090, Wall		None Detected
040333-PINK(B) -01F	Basement, Room 084, Wall		None Detected
040333-PINK(B) -01G	Basement, Room 070, Wall		Tan:1% Chrysotile Asbestos

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-PINK(B) -02A	Basement, Room 084, Wall	Plaster – White over Grey Layers	White: None Detected Grey: None Detected
040333-PINK(B) -02B			White: None Detected Grey: None Detected
040333-PINK(B) -02C			White: None Detected Grey: None Detected
040333-GRY(G) -01A	Ground Floor, Room 20A, Wall	Drywall Joint Compound	None Detected
040333-GRY(G) -01B	Ground Floor, Room 21, Wall		None Detected
040333-GRY(G) -01C			None Detected
040333-PINK(G) -01A	Ground Floor, Room 32, Ceiling	Plaster – White over Grey Layers	White: 1% Chrysotile Asbestos Grey: None Present
040333-PINK(G) -01B			White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-PINK(G) -01C	Ground Floor, Room 32, Wall		White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-GRN(G) -01A	Ground Floor, Room 61D, Wall	Plaster – White over Grey Layers	White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-GRN(G) -01B	Ground Floor, Room 56C, Wall		White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-GRN(G) -01C			White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-PURPLE(G) - 01A	Ground Floor, Room 83B, Wall	Plaster – White over Grey Layers	White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-PURPLE(G) - 01B			White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-PURPLE(G) - 01C			White: 1% Chrysotile Asbestos Grey: 1% Chrysotile Asbestos
040333-ORG(G) -01A	Ground Floor, Room 87E, Wall	Plaster – White over Grey Layers	White: None Detected Grey: None Detected
040333-ORG(G) -01B	Ground Floor, Room 82I, Wall		White: None Detected Grey: None Detected
040333-ORG(G) -01C	Ground Floor, Stairwell STG5, Wall		White: None Detected Grey: None Detected
040333-ORG(1) -01A	1 st Floor, Room 193, Wall	Drywall Joint Compound	None Detected
040333-ORG(1) -01B			None Detected
040333-ORG(1) -01C			None Detected
040333-GRY(1) -01A	1 st Floor, Room 120A, Wall	Drywall Joint Compound	None Detected
040333-GRY(1) -01B			None Detected
040333-GRY(1) -01C	1 st Floor, Room 121, Wall		None Detected
040333-GRY(1) -02A	1 st Floor, Room 120A, Ceiling	Drywall Joint Compound	None Detected
040333-GRY(1) -02B			None Detected
040333-GRY(1) -02C	1 st Floor, Room 121, Ceiling		None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-YLW(2) -01A	2 nd Floor, Room, 220B, Wall	Drywall Joint Compound	None Detected
040333-YLW(2) -01B			None Detected
040333-YLW(2) -01C	2 nd Floor, Room, 221A, Wall		None Detected
040333-YLW(2) -02A	2 nd Floor, Room, 220B, Ceiling	Drywall Joint Compound	None Detected
040333-YLW(2) -02B	2 nd Floor, Room, 221, Ceiling		None Detected
040333-YLW(2) -02C			None Detected
040333-GRN(2) -01A	2 nd Floor, Room, 230C, Wall	Plaster – White Layers	None Detected
040333-GRN(2) -01B	2 nd Floor, Room, 272A, Wall		None Detected
040333-GRN(2) -01C	2 nd Floor, Room, 286C Wall		None Detected
040333-GRN(2) -01D	2 nd Floor, Room, 283A, Wall		None Detected
040333-GRN(2) -01E	2 nd Floor, Room, 229C, Wall		None Detected
040333-DPYLW(3) -01A	3 rd Floor, Room 310, Wall	Drywall Joint Compound	None Detected
040333-DPYLW(3) -01B	3 rd Floor, Room 310, Bulkhead		None Detected
040333-DPYLW(3) -01C	3 rd Floor, Room 309, Pillar		None Detected
040333-PINK(3) -01A	3 rd Floor, Room 300, Wall	Drywall Joint Compound	None Detected
040333-PINK(3) -01B			None Detected
040333-PINK(3) -01C			None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-BLUEDASH(3)-01A	3 rd Floor Library, Room C, Wall	Drywall Joint Compound	None Detected
040333-BLUEDASH(3)-01B			None Detected
040333-BLUEDASH(3)-01C	3 rd Floor Library, Room B, Wall		None Detected
040333-LTBLUE(3)-01A	3 rd Floor Library, Room C, Wall	Drywall Joint Compound	None Detected
040333-LTBLUE(3)-01B			None Detected
040333-LTBLUE(3)-01C	3 rd Floor Library, Room B, Wall		None Detected
040333-ORGDASH(3)-01A	3 rd Floor Library, Room B, Wall	Drywall Joint Compound	None Detected
040333-ORGDASH(3)-01B			None Detected
040333-ORGDASH(3)-01C	3 rd Floor Library, Room C, Wall		None Detected
040333-PURPLE(3)-01A	3 rd Floor Mezzanine East, Wall	Drywall Joint Compound	None Detected
040333-PURPLE(3)-01B			None Detected
040333-PURPLE(3)-01C	3 rd Floor Mezzanine West, Wall		None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-DPORG(3) - 01A	3 rd Floor Library, Room C, Wall	Drywall Joint Compound	None Detected
040333-DPORG(3) - 01B	3 rd Floor Library, Room E, Wall		None Detected
040333-DPORG(3) - 01C			None Detected
040333-DPORG(3) - 01D	3 rd Floor Library, Room D, Wall		None Detected
040333-DPORG(3) - 01E			None Detected
040333-LTGRY(3) - 01A	3 rd Floor, Room 340, Wall	Drywall Joint Compound	None Detected
040333-LTGRY(3) - 01B			None Detected
040333-LTGRY(3) - 01C	3 rd Floor, outside Room 341, Wall		None Detected
040333-LTGRN(3) - 01A	3 rd Floor, CR3N Hallway, Wall	Drywall Joint Compound	None Detected
040333-LTGRN(3) - 01B	3 rd Floor, Room 339, Wall		None Detected
040333-LTGRN(3) - 01C			None Detected
040333-LTGRN(3) - 01D	3 rd Floor, CR3N Hallway, Wall		None Detected
040333-LTGRN(3) - 01E			None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-LTGRN(3) - 02A	3 rd Floor, CR3N Hallway, Wall	Plaster – White over Grey Layers	White: None Detected Grey: None Detected
040333-LTGRN(3) - 02B			White: None Detected Grey: None Detected
040333-LTGRN(3) - 02C			White: None Detected Grey: None Detected
040333-SKYBLU(3) - 01A	3 rd Floor, Room 374, Wall	Drywall Joint Compound	None Detected
040333-SKYBLU(3) - 01B			None Detected
040333-SKYBLU(3) - 01C	3 rd Floor, Room 371, Wall		None Detected
040333-EV4 - 01A	2 nd Floor, EV4, Ceiling	Fireproofing	None Detected
040333-EV4 - 01B			None Detected
040333-EV4 - 01C			None Detected
040333-EV4 - 02A	2 nd Floor, EV4, Wall	Texture Coat - White	None Detected
040333-EV4 - 02B	2 nd Floor, EV4 -Stairwell, Wall		None Detected
040333-EV4 - 02C	1 st Floor, EV4, Wall		None Detected
040333-EV4 - 02D	3 rd Floor, EV4, Wall		None Detected
040333-EV4 - 02E			None Detected
040333-EV4 - 03A	2 nd Floor, EV4 -Stairwell, Door Frame	White Caulking	None Detected
040333-EV4 - 03B			None Detected
040333-EV4 - 03C			None Detected

Table 1C: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2020 Supplemental Bulk Sampling)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
040333-EV4 - 04A	3 rd Floor, EV4	Drywall Joint Compound	None Detected
040333-EV4 - 04B			None Detected
040333-EV4 - 04C			None Detected

***Bold** items exceed the 0.5% regulated concentration of asbestos, as per O.Reg. 278/05, as amended.

Table 1D: Summary of Bulk Samples Analyzed for Asbestos – PLM Analysis (DST, 2021)			
Sample I.D.	Sample Location	Material Description	Asbestos Type & %
SCC-S1a	Sub Basement Main Mech Room 003	Marble Mortar	None Detected
SCC-S1b			None Detected
SCC-S1c			None Detected

Table 2: Summary of Bulk Paint Samples Analyzed for Lead Content Analysis by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES), DST 2020/2021			
Sample I.D.	Sample Location	Sample Description	Lead Content (ppm or µg/g)
040333–LP01	Wall, Sub Basement, Location 1 (Ramp to the Catacombs)	White Paint	401
040333–LP02	Floor, Sub Basement, Room 0021, Location 9	Grey Paint	516
040333–LP03	Column, Sub Basement Mechanical Room 0017, Location 10	Off-White and Red Paint	5,730
040333–LP04	Base of Wall, Sub Basement Room behind 0039 Location 11	Grey Paint	656
040333–LP05	AHU unit, Sub Basement, Room 0039, Location 12	Beige Paint	1,360
040333–LP06	Floor, Sub Basement Steam Tunnels, Location 14	Light Grey Paint	455
040333–LP07	Metal Door, Sub Basement Room 008, Location 23	Grey Paint	4,340
040333–LP08	Radiator, Basement Room 034, Location 38	Light Beige Paint	11,100
040333–LP09	Wall, Basement Janitor's Closet, Room 027, Location 48	Light Tan Paint	1,980
040333–LP10	Ceiling, Basement Room 021, Location 53	White Paint	<20
040333–LP11	Wall, Ground Floor Washroom 55B, Location 123	Off-White Paint	725
040333–LP12	Wall, Ground Floor Kitchen, Location 128	Grey Paint	<20
040333–LP13	Radiator, 1 st Floor, Washroom 106A, Location 154	White Paint	2,200
040333–LP14	Wall, 3 rd Floor, Southeast Stairwell, Location 212	Beige Paint	2,970

Table 2: Summary of Bulk Paint Samples Analyzed for Lead Content Analysis by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES), DST 2020/2021			
Sample I.D.	Sample Location	Sample Description	Lead Content (ppm or µg/g)
040333–LP15	Northwest/Northeast Elevator Pit, Location A/B, Floor Paint	Grey Paint	26
040333–LP16	Judges Elevator Pit, Location C, Upper Shaft Walls	White Paint	62
040333–LP17	Judges Elevator Pit, Location C, Lower Shaft Walls	Grey Paint	2,050
040333–LP18	Judges Elevator Pit, Location C, Floor Paint	Grey Paint	3,480
040333–LP19	Judges Elevator Pit, Location C, Steel Beam	Black Paint	<20
040333–LP20	Exterior West Elevation around Loading Dock Doors	Grey Paint	2,400
SCC-L1	Steel Beams – Upper Mechanical Penthouse	Black Paint with Orange Underneath	317,000

Note: **Bold** items show concentrations of lead that exceed the 90 ppm limit for lead, as per *Canada Consumer Product Safety Act's Surface Coating Materials Regulations SOR/2016-193* (as amended).



555 Legget Drive, Suite 1001, Tower A
Kanata, Ontario
K2K 2X3



Professional Engineers
Ontario

Client Name: Supreme Court of Canada
Building Address: 301 Wellington Street, Ottawa, Ontario
Project No.: 71164
Date Sampled: 15-Dec-11
Units: mg / cm²

Index	Component	Substrate	Color	Floor	Location	Pb
1	Wall	Concrete Block	Beige	SB	Outside Hydro Vault (009)	<LOD
2	Column	Concrete	Red	SB	Outside Hydro Vault (009)	0.26
3	Column	Concrete	White	SB	Outside Hydro Vault (009)	0.04
4	Floor	Concrete	Grey	SB	On top of Hydro Vault (009)	0.01
5	Wall	Drywall	White	SB	Storage Area (008)	<LOD
6	Wall	Terra Cotta	White	SB	Supply Plenum (0021) #3	0.03
7	Floor	Concrete	Grey	SB	Supply Plenum (0021) #3	0.10
8	Wall	Drywall	White	SB	Library (0089)	<LOD
9	Duct	Metal	White	SB	Supply Plenum #4 (0020)	0.10
10	Wall	Concrete	Off-White	SB	Storage (0056)	<LOD
11	Wall	Drywall	Off-White	SB	Court Records (0056)	<LOD
12	Wall	Drywall	White	SB	Men's Washroom (0072)	<LOD
13	Wall	Brick Masonry	White	SB	Office Area (0088A)	0.04
14	Wall	Concrete Block	Off-White	SB	File Room (0090A)	<LOD
15	Wall	Drywall	White	SB	Hallway (0088)	<LOD
16	Wall	Drywall	White	SB	Photocopy Room (0092)	<LOD
17	Wall	Concrete Block	White	SB	File Room (0079C)	<LOD
18	Wall	Drywall	White	B	Stack 2	<LOD
19	Wall	Drywall	Off-White	B	Fire Control Room (045)	<LOD
20	Wall	Drywall	White	B	Office (042)	<LOD
21	Wall	Drywall	Grey	B	Office (038)	<LOD
22	Wall	Brick Masonry	Off-White	B	Janitor Closet (027)	0.06
23	Wall	Concrete Block	White	B	Coat Room (086A)	<LOD

Index	Component	Substrate	Color	Floor	Location	Pb
24	Wall	Plaster	White	B	Coat Room (086A)	0.05
25	Wall	Drywall	White	B	First Aid (018)	<LOD
26	Wall	Plaster	White	B	Office (074)	0.01
27	Wall	Concrete	White	PG	Parking Garage	0.04
28	Wall	Concrete	Beige	PG	Parking Garage	0.00
29	Wall	Concrete	Beige	PG	Parking Garage	0.11
30	Floor (Parking Lines)	Concrete	Yellow	PG	Parking Garage	4.20
31	Floor (Parking Lines)	Concrete	Yellow	PG	Parking Garage	1.90
32	Wall	Concrete	White	PG	Parking Garage	0.06
33	Ceiling	Plaster	White	SC	Staircase #5	0.02
34	Wall	Plaster	Off-White	GF	Ground Floor Room #58	0.07
35	Wall	Concrete	White	GF	Ground Floor Room #58 Washroom	0.01
36	Door	Metal	Grey	GF	Ground Floor Room # 55 Vault	8.10
37	Wall	Concrete	White	GF	Ground Floor Janitor Room #50	0.10
38	Radiator	Metal	Beige	GF	Ground Floor Janitor Room #50	0.03
39	Wall	Concrete	Beige	GF	Janitor Room #49	0.07
40	Ceiling	Plaster	Beige	GF	Janitor Room # 49	0.21
41	Wall	Drywall	White	GF	Washroom # 21	<LOD
42	Wall	Concrete	White	GF	Washroom # 21	0.05
43	Wall	Drywall	Green	GF	Washroom # 34 (Closet)	<LOD
44	Wall	Drywall	White	GF	Washroom # 35 (Closet)	0.06
45	Wall	Plaster	Beige	GF	Office # 34	0.11
46	Wall	Plaster	White	1st	Washroom 186 A	0.17
47	Wall	Concrete	Beige	1st	Janitor Room # 150	0.11
48	Radiator	Steel Radiator	Beige	1st	Janitor Room # 150	0.17
49	Radiator	Steel Radiator	Beige	1st	Janitor Room # 149	0.11
50	Wall	Concrete	Beige	1st	Janitor Room # 149	0.30
51	Wall	Plaster	White	1st	Office Room # 161	0.22
52	Window Frame	Wood	Brown	1st	Office Room # 161	3.00
53	Wall	Concrete	White	1st	Washroom Room # 125	0.00
54	Window Frame	Wood	Brown	1st	Office Room # 155	3.40
55	Wall	Plaster	Green	3rd	Sitting Room (outside Elevator)	0.00
56	Wall	Plaster	Green	3rd	Elevator Lobby	0.00
57	Wall	Plaster	Green	3rd	Room #325 Hallway	0.00
58	Radiator	Metal	Green	3rd	Room #325 Hallway	0.05
59	Wall	Plaster	Beige	3rd	Room # 319	<LOD
60	Wall	Plaster	White	3rd	Room # 361 (Library)	<LOD
61	Wall	Plaster	Beige	3rd	Room # 375	<LOD
62	Wall	Plaster	Beige	3rd	Room # 374	<LOD
63	Wall	Plaster	White	3rd	Room # 348	<LOD

Index	Component	Substrate	Color	Floor	Location	Pb
64	Wall	Plaster	Beige	3rd	Room # 348	<LOD
65	Wall	Plaster	White	4th	Room # 385 should be 400 series (Mezzanine)	<LOD
66	Floor	Concrete	Green	5th	500 East	<LOD
67	Wall	Concrete	White	5th	500 East	<LOD
68	Wall	Plaster	White	5th	500 West Mechanical Room	<LOD
69	Supporting Beams	Metal	Dark Blue	5th	500 West Mechanical Room	<LOD
70	Wall	Concrete	White	5th	500 West	<LOD
71	Wall	Plaster	Beige	4th	Room #405 (Mezzanine)	<LOD
72	Wall	Plaster	Beige	2nd	Closet, Room # 226	0.08
73	Wall	Drywall	White	2nd	Storage Room Between Rooms # 218 & 224	<LOD
74	Wall	Plaster	White	2nd	Room # 264	0.14
75	Window Frame	Wood	Brown	2nd	Room # 264	2.30
76	Wall	Brick Masonry	White	2nd	Room # 250	0.25
77	Wall	Brick Masonry	White	2nd	Room # 249	0.29
78	Wall	Plaster	White	2nd	Room # 292	0.04
79	Wall	Concrete Block	White	2nd	Stack Elevator	<LOD
80	Wall	Plaster	White	2nd	Room # 285	0.21
81	Window Frame	Wood	Brown	2nd	Room # 285	2.70
82	Wall	Plaster	White	2nd	Room # 265	0.04
83	Window Frame	Wood	Brown	2nd	Room # 265	2.80
84	Window Frame	Wood	Black	2nd	Central Corridor	1.90
85	Wall	Concrete Block	White	2nd	Room # 225	<LOD
86	Wall	Plaster	White	2nd	Room # 223	0.15

<LOD : Less than the Limit of Detection for the test method

Appendix C
Laboratory Certificates of Analysis

Certificate of Analysis

DST Consulting Engineers Inc. (Ottawa)

203-2150 Thurston Dr.
Ottawa, ON K1G 5T9
Attn: Amanda Eliot

Client PO:
Project: GV OT 040333
Custody: 42088

Report Date: 29-Jun-2020
Order Date: 3-Feb-2020

Revised Report

Order #: 2006095

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

Paracel ID	Client ID
2006095-01	040333-62A
2006095-02	040333-62B
2006095-03	040333-62C
2006095-07	040333-63A
2006095-08	040333-63B
2006095-09	040333-63C
2006095-10	040333-65A
2006095-11	040333-65B
2006095-12	040333-65C
2006095-13	040333-65D
2006095-14	040333-65E
2006095-15	040333-66A
2006095-16	040333-66B
2006095-17	040333-66C
2006095-18	040333-67A
2006095-19	040333-67B
2006095-20	040333-67C
2006095-21	040333-68A
2006095-22	040333-68B
2006095-23	040333-68C
2006095-24	040333-69A
2006095-25	040333-69B
2006095-26	040333-69C
2006095-27	040333-70A
2006095-28	040333-70B
2006095-29	040333-70C

Approved By:



Heather S.H. McGregor, BSc

Laboratory Director - Microbiology

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-30	040333-71A
2006095-31	040333-71B
2006095-32	040333-71C
2006095-33	040333-72A
2006095-34	040333-72B
2006095-35	040333-72C
2006095-36	040333-72D
2006095-37.1	040333-72E
2006095-37.2	040333-72E
2006095-38	040333-74A
2006095-39	040333-74B
2006095-40	040333-74C
2006095-41	040333-75A
2006095-42	040333-75B
2006095-43	040333-75C
2006095-44	040333-76A
2006095-45	040333-76B
2006095-46	040333-76C
2006095-47	040333-77A
2006095-48	040333-77B
2006095-49	040333-77C
2006095-50	040333-78A
2006095-51	040333-78B
2006095-52	040333-78C
2006095-53	040333-79A
2006095-54	040333-79B
2006095-55	040333-79C
2006095-56	040333-79D
2006095-57	040333-79E
2006095-58	040333-79F
2006095-59	040333-79G
2006095-60	040333-80A
2006095-61	040333-80B
2006095-62	040333-80C
2006095-63	040333-81A
2006095-64	040333-81B
2006095-65	040333-81C
2006095-66	040333-82A
2006095-67	040333-82B
2006095-68	040333-82C
2006095-69	040333-82D
2006095-70	040333-82E
2006095-71	040333-82F
2006095-72	040333-82G

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-73	040333-82A
2006095-74	040333-82B
2006095-75	040333-82C
2006095-76	040333-82D
2006095-77	040333-82E
2006095-78	040333-82F
2006095-79	040333-82G
2006095-80	040333-83A
2006095-81	040333-83B
2006095-82	040333-83C
2006095-83	040333-84A
2006095-84	040333-84B
2006095-85	040333-84C
2006095-86	040333-84D
2006095-87	040333-84E
2006095-88.1	040333-85A
2006095-88.2	040333-85A
2006095-89.1	040333-85B
2006095-89.2	040333-85B
2006095-90.1	040333-85C
2006095-90.2	040333-85C
2006095-91	040333-86A
2006095-92	040333-86B
2006095-93	040333-86C
2006095-94	040333-87A
2006095-95	040333-87B
2006095-96	040333-87C
2006095-97	040333-88A
2006095-98	040333-88B
2006095-99	040333-88C
2006095-AA.1	040333-89A
2006095-AA.2	040333-89A
2006095-AB	040333-89B
2006095-AC	040333-89C
2006095-AD	040333-91A
2006095-AE	040333-91B
2006095-AF	040333-91C
2006095-AG	040333-92A
2006095-AH	040333-92B
2006095-AI	040333-92C
2006095-AJ	040333-93A
2006095-AK	040333-93B
2006095-AL	040333-93C
2006095-AM	040333-94A

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-AN	040333-94B
2006095-AO	040333-94C
2006095-AP	040333-95A
2006095-AQ	040333-95B
2006095-AR	040333-95C
2006095-AS	040333-96A
2006095-AT	040333-96B
2006095-AU	040333-96C
2006095-AV	040333-97A
2006095-AW	040333-97B
2006095-AX	040333-97C
2006095-AY	040333-97A
2006095-AZ	040333-97B
2006095-BA	040333-97C
2006095-BB.1	040333-98A
2006095-BB.2	040333-98A
2006095-BC.1	040333-98B
2006095-BC.2	040333-98B
2006095-BD.1	040333-98C
2006095-BD.2	040333-98C
2006095-BE.1	040333-98A
2006095-BE.2	040333-98A
2006095-BF.1	040333-98B
2006095-BF.2	040333-98B
2006095-BG.1	040333-98C
2006095-BG.2	040333-98C
2006095-BH	040333-99
2006095-BI	040333-100A
2006095-BJ	040333-100B
2006095-BK	040333-100C
2006095-BL	040333-101A
2006095-BM	040333-101B
2006095-BN	040333-101C
2006095-BO	040333-102A
2006095-BP	040333-102B
2006095-BQ	040333-102C
2006095-BU	040333-103A
2006095-BV	040333-103B
2006095-BW	040333-103C
2006095-BX	040333-104A
2006095-BY	040333-104B
2006095-BZ	040333-104C
2006095-CA	040333-105A
2006095-CB	040333-105B

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-CC	040333-105C
2006095-CD	040333-105D
2006095-CE	040333-105E
2006095-CF	040333-105F
2006095-CG	040333-105G
2006095-CH	040333-105A
2006095-CI	040333-105B
2006095-CJ	040333-105C
2006095-CK	040333-105D
2006095-CL	040333-105E
2006095-CM	040333-105F
2006095-CN	040333-105G
2006095-CO	040333-106A
2006095-CP	040333-106B
2006095-CQ	040333-106C
2006095-CR	040333-107A
2006095-CS	040333-107B
2006095-CT	040333-107C
2006095-CU.1	040333-108A
2006095-CU.2	040333-108A
2006095-CV.1	040333-108B
2006095-CV.2	040333-108B
2006095-CW.1	040333-108C
2006095-CW.2	040333-108C
2006095-CX	040333-108A
2006095-CY	040333-108B
2006095-CZ	040333-108C
2006095-DA	040333-109A
2006095-DB	040333-109B
2006095-DC	040333-109C
2006095-DD	040333-109D
2006095-DE	040333-109E
2006095-DF	040333-110A
2006095-DG	040333-110B
2006095-DH	040333-110C
2006095-DI	040333-111A
2006095-DJ	040333-111B
2006095-DK	040333-111C
2006095-DL	040333-111D
2006095-DM	040333-111E
2006095-DN	040333-111F
2006095-DO	040333-111G
2006095-DP	040333-112A
2006095-DQ	040333-112B

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-DR	040333-112C
2006095-DS	040333-113A
2006095-DT	040333-113B
2006095-DU	040333-113C
2006095-DV	040333-114A
2006095-DW	040333-114B
2006095-DX	040333-114C
2006095-DY	040333-114A
2006095-DZ	040333-114B
2006095-EA	040333-114C
2006095-EB	040333-115A
2006095-EC	040333-115B
2006095-ED	040333-115C
2006095-EE	040333-115D
2006095-EF	040333-115E
2006095-EG	040333-116A
2006095-EH	040333-116B
2006095-EI	040333-116C
2006095-EJ	040333-116A
2006095-EK	040333-116B
2006095-EL	040333-116C
2006095-EM	040333-117A
2006095-EN	040333-117B
2006095-EO	040333-117C
2006095-EP	040333-118A
2006095-EQ	040333-118B
2006095-ER	040333-118C
2006095-ES	040333-119A
2006095-ET	040333-119B
2006095-EU	040333-119C
2006095-EZ.1	040333-121A
2006095-EZ.2	040333-121A
2006095-FA.1	040333-121B
2006095-FA.2	040333-121B
2006095-FB.1	040333-121C
2006095-FB.2	040333-121C
2006095-FC	040333-122A
2006095-FD	040333-122B
2006095-FE	040333-122C
2006095-FF	040333-123A
2006095-FG	040333-123B
2006095-FH	040333-123C
2006095-FI	040333-123D
2006095-FJ	040333-123E

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-FK	040333-123F
2006095-FL	040333-123G
2006095-FM	040333-124A
2006095-FN	040333-124B
2006095-FO	040333-124C
2006095-FP	040333-124D
2006095-FQ	040333-124E
2006095-FR	040333-125A
2006095-FS	040333-125B
2006095-FT	040333-125C
2006095-FU	040333-126A
2006095-FV	040333-126B
2006095-FW	040333-126C
2006095-FX	040333-127A
2006095-FY	040333-127B
2006095-FZ	040333-127C
2006095-GA	040333-128A
2006095-GB	040333-128B
2006095-GC	040333-128C
2006095-GD	040333-129A
2006095-GE	040333-129B
2006095-GF	040333-129C
2006095-GG	040333-130A
2006095-GH	040333-130B
2006095-GI	040333-130C
2006095-GJ.1	040333-131A
2006095-GJ.2	040333-131A
2006095-GK.1	040333-131B
2006095-GK.2	040333-131B
2006095-GL.1	040333-131C
2006095-GL.2	040333-131C
2006095-GM	040333-132A
2006095-GN	040333-132B
2006095-GO	040333-132C
2006095-GP	040333-133A
2006095-GQ	040333-133B
2006095-GR	040333-133C
2006095-GS	040333-134A
2006095-GT	040333-134B
2006095-GU	040333-134C
2006095-GV	040333-135A
2006095-GW	040333-135B
2006095-GX	040333-135C
2006095-GY	040333-136A

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

2006095-GZ	040333-136B
2006095-HA	040333-136C
2006095-HB	040333-136A
2006095-HC	040333-136B
2006095-HD	040333-136C
2006095-HE	040333-137A
2006095-HF	040333-137B
2006095-HG.1	040333-137C
2006095-HG.2	040333-137C
2006095-HH	040333-137D
2006095-HI	040333-137E
2006095-HJ	040333-138A
2006095-HK	040333-138B
2006095-HL	040333-138C
2006095-HM.1	040333-139A
2006095-HM.2	040333-139A
2006095-HN.1	040333-139B
2006095-HN.2	040333-139B
2006095-HO.1	040333-139C
2006095-HO.2	040333-139C
2006095-HP	040333-140A
2006095-HQ	040333-140B
2006095-HR	040333-140C
2006095-HS	040333-141A
2006095-HT	040333-141B
2006095-HU	040333-141C
2006095-HV	040333-142A
2006095-HW	040333-142B
2006095-HX	040333-142C
2006095-HY	040333-143A
2006095-HZ	040333-143B
2006095-IA	040333-143C

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-01	2 21-Jan-20	Grey	Duct Sealant/Mastic	No	Client ID: 040333-62A	
					Non-Fibers	100
2006095-02	2 21-Jan-20	Grey	Duct Sealant/Mastic	No	Client ID: 040333-62B	
					Non-Fibers	100
2006095-03	2 21-Jan-20	Grey	Duct Sealant/Mastic	No	Client ID: 040333-62C	
					Non-Fibers	100
2006095-07	2 21-Jan-20	Grey	Parging	No	Client ID: 040333-63A	
					Non-Fibers	100
2006095-08	2 21-Jan-20	Grey	Parging	No	Client ID: 040333-63B	
					Non-Fibers	100
2006095-09	2 21-Jan-20	Grey	Parging	No	Client ID: 040333-63C	
					Non-Fibers	100
2006095-10	2 21-Jan-20	Grey	Mortar	No	Client ID: 040333-65A	
					Non-Fibers	100
2006095-11	2 21-Jan-20	Grey	Mortar	No	Client ID: 040333-65B	
					Non-Fibers	100
2006095-12	2 21-Jan-20	Grey	Mortar	No	Client ID: 040333-65C	
					Non-Fibers	100
2006095-13	2 21-Jan-20	Grey	Mortar	No	Client ID: 040333-65D	
					Non-Fibers	100
2006095-14	2 21-Jan-20	Grey	Mortar	No	Client ID: 040333-65E	
					Non-Fibers	100
2006095-15	2 21-Jan-20	Grey	Parge Patch	Yes	Client ID: 040333-66A	
						[Z-01a]
					Tremolite	1
					Non-Fibers	99

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-16	2 21-Jan-20				Client ID: 040333-66B	
					not analyzed	
2006095-17	2 21-Jan-20				Client ID: 040333-66C	
					not analyzed	
2006095-18	2 21-Jan-20	Red	Fire Stop	No	Client ID: 040333-67A	
					[Z-01]	
					Non-Fibers	100
2006095-19	2 21-Jan-20	Red	Fire Stop	No	Client ID: 040333-67B	
					MMVF	10
					Non-Fibers	90
2006095-20	2 21-Jan-20	Red	Fire Stop	No	Client ID: 040333-67C	
					MMVF	10
					Non-Fibers	90
2006095-21	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-68A	
					Non-Fibers	100
2006095-22	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-68B	
					Non-Fibers	100
2006095-23	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-68C	
					Non-Fibers	100
2006095-24	2 21-Jan-20	Grey	Parge Patch	No	Client ID: 040333-69A	
					Non-Fibers	100
2006095-25	2 21-Jan-20	Grey	Parge Patch	No	Client ID: 040333-69B	
					Non-Fibers	100
2006095-26	2 21-Jan-20	Grey	Parge Patch	No	Client ID: 040333-69C	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-27	2 21-Jan-20	Black	Tar Insulation	No	Client ID: 040333-70A	
						[AS-PRE]
					MMVF	20
					Non-Fibers	80
2006095-28	2 21-Jan-20	Black	Tar Insulation	No	Client ID: 040333-70B	
						[AS-PRE]
					MMVF	20
					Non-Fibers	80
2006095-29	2 21-Jan-20	Black	Tar Insulation	No	Client ID: 040333-70C	
						[AS-PRE]
					MMVF	20
					Non-Fibers	80
2006095-30	2 21-Jan-20	Brown	Duct Mastic	Yes	Client ID: 040333-71A	
					Chrysotile	2
					Non-Fibers	98
2006095-31	2 21-Jan-20				Client ID: 040333-71B	
						not analyzed
2006095-32	2 21-Jan-20				Client ID: 040333-71C	
						not analyzed
2006095-33	2 21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-72A	
						Non-Fibers 100
2006095-34	2 21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-72B	
						Non-Fibers 100
2006095-35	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-72C	
						Non-Fibers 100
2006095-36	2 21-Jan-20	White/Grey	Drywall Joint Compound	Yes	Client ID: 040333-72D	
						[Z-01]]
					Tremolite	1
					Non-Fibers	99

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-37.1	2	21-Jan-20	White	Yes	Client ID: 040333-72E	
					Chrysotile	1
					Non-Fibers	99
2006095-37.2	2	21-Jan-20	Beige	Yes	Client ID: 040333-72E	
					Chrysotile	2
					Non-Fibers	98
2006095-38	2	21-Jan-20	Yellow	No	Client ID: 040333-74A	
						[Z-01h]
					Non-Fibers	100
2006095-39	2	21-Jan-20	Yellow	No	Client ID: 040333-74B	
						[Z-01h]
					Non-Fibers	100
2006095-40	2	21-Jan-20	Yellow	No	Client ID: 040333-74C	
						[Z-01h]
					Non-Fibers	100
2006095-41	2	21-Jan-20	White	No	Client ID: 040333-75A	
					Non-Fibers	100
2006095-42	2	21-Jan-20	White	No	Client ID: 040333-75B	
					Non-Fibers	100
2006095-43	2	21-Jan-20	White	No	Client ID: 040333-75C	
					Non-Fibers	100
2006095-44	2	21-Jan-20	Grey	No	Client ID: 040333-76A	
					Non-Fibers	100
2006095-45	2	21-Jan-20	Grey	No	Client ID: 040333-76B	
					Non-Fibers	100
2006095-46	2	21-Jan-20	Grey	No	Client ID: 040333-76C	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-47	2 21-Jan-20	Red	Floor Grout	No	Client ID: 040333-77A	
						[Z-01]
					Non-Fibers	100
2006095-48	2 21-Jan-20	Red	Floor Grout	No	Client ID: 040333-77B	
						[Z-01]
					Non-Fibers	100
2006095-49	2 21-Jan-20	Red	Floor Grout	No	Client ID: 040333-77C	
						[Z-01]
					Non-Fibers	100
2006095-50	2 21-Jan-20	Grey/Brown	Caulking	Yes	Client ID: 040333-78A	
					Chrysotile	2
					Non-Fibers	98
2006095-51	2 21-Jan-20				Client ID: 040333-78B	
						not analyzed
2006095-52	2 21-Jan-20				Client ID: 040333-78C	
						not analyzed
2006095-53	2 21-Jan-20	Grey	Drywall Joint Compound	No	Client ID: 040333-79A	
					Non-Fibers	100
2006095-54	2 21-Jan-20	Tan	Drywall Joint Compound	Yes	Client ID: 040333-79B	
					Chrysotile	1
					Non-Fibers	99
2006095-55	2 21-Jan-20	Grey	Drywall Joint Compound	No	Client ID: 040333-79C	
					Non-Fibers	100
2006095-56	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-79D	
					Non-Fibers	100
2006095-57	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-79E	
						[Z-01d]
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-58	2 21-Jan-20	Grey	Drywall Joint Compound	No	Client ID: 040333-79F	
					Non-Fibers	100
2006095-59	2 21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-79G	
					Non-Fibers	100
2006095-60	2 21-Jan-20	Brown	Baseboard Mastic	No	Client ID: 040333-80A	
					Non-Fibers	100
2006095-61	2 21-Jan-20	Brown	Baseboard Mastic	No	Client ID: 040333-80B	
					Non-Fibers	100
2006095-62	2 21-Jan-20	Brown	Baseboard Mastic	No	Client ID: 040333-80C	
					Non-Fibers	100
2006095-63	2 21-Jan-20	Red	Firestop	No	Client ID: 040333-81A	
					MMVF	5
					Non-Fibers	95
2006095-64	2 21-Jan-20	Red	Firestop	No	Client ID: 040333-81B	
					MMVF	5
					Non-Fibers	95
2006095-65	2 21-Jan-20	Red	Firestop	No	Client ID: 040333-81C	
					MMVF	5
					Non-Fibers	95
2006095-66	2 21-Jan-20	White	Plaster	Yes	Client ID: 040333-82A	
					Chrysotile	1
					Non-Fibers	99
2006095-67	2 21-Jan-20	White	Plaster	Yes	Client ID: 040333-82B	
					Chrysotile	1
					Non-Fibers	99

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-68	2 21-Jan-20	White	Plaster	Yes	Client ID: 040333-82C	
					Chrysotile	1
					Non-Fibers	99
2006095-69	2 21-Jan-20	White	Plaster	No	Client ID: 040333-82D	
					Non-Fibers	100
2006095-70	2 21-Jan-20	White	Plaster	No	Client ID: 040333-82E	
					Non-Fibers	100
2006095-71	2 21-Jan-20				Client ID: 040333-82F	
					not analyzed	[Z-01c]
2006095-72	2 21-Jan-20	White	Plaster	Yes	Client ID: 040333-82G	
					Chrysotile	1
					Non-Fibers	99
2006095-73	2 21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-82A	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2006095-74	2 21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-82B	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2006095-75	2 21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-82C	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2006095-76	2 21-Jan-20	Grey	Plaster	No	Client ID: 040333-82D	
					Non-Fibers	100

Certificate of Analysis

Report Date: 29-Jun-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 3-Feb-2020

Client PO:

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-77	2 21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-82E	
						[Z-01a]
					Tremolite	1
					Non-Fibers	99
2006095-78	2 21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-82F	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2006095-79	2 21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-82G	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2006095-80	2 21-Jan-20	Grey	Grout	No	Client ID: 040333-83A	
					Non-Fibers	100
2006095-81	2 21-Jan-20	Grey	Grout	No	Client ID: 040333-83B	
					Non-Fibers	100
2006095-82	2 21-Jan-20	Grey	Grout	No	Client ID: 040333-83C	
					Non-Fibers	100
2006095-83	2 21-Jan-20	Grey	Marble Grout	No	Client ID: 040333-84A	
					Non-Fibers	100
2006095-84	2 21-Jan-20	Grey	Marble Grout	No	Client ID: 040333-84B	
					Non-Fibers	100
2006095-85	2 21-Jan-20	Grey	Marble Grout	No	Client ID: 040333-84C	
					Non-Fibers	100
2006095-86	2 21-Jan-20	Grey	Marble Grout	No	Client ID: 040333-84D	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-87	2 21-Jan-20	Grey	Marble Grout	No	Client ID: 040333-84E	
					Non-Fibers	100
2006095-88.1	2 21-Jan-20	Off-white	Vinyl Floor Tile	No	Client ID: 040333-85A	
					Non-Fibers	100
2006095-88.2	2 21-Jan-20	Yellow	Mastic	No	Client ID: 040333-85A	
					Non-Fibers	100
2006095-89.1	2 21-Jan-20	Off-white	Vinyl Floor Tile	No	Client ID: 040333-85B	
					Non-Fibers	100
2006095-89.2	2 21-Jan-20	Yellow	Mastic	No	Client ID: 040333-85B	
					Non-Fibers	100
2006095-90.1	2 21-Jan-20	Off-white	Vinyl Floor Tile	No	Client ID: 040333-85C	
					Non-Fibers	100
2006095-90.2	2 21-Jan-20	Yellow	Mastic	No	Client ID: 040333-85C	
					Non-Fibers	100
2006095-91	2 21-Jan-20	Grey	Floor Leveling Compound	No	Client ID: 040333-86A	
					Non-Fibers	100
2006095-92	2 21-Jan-20	Grey	Floor Leveling Compound	No	Client ID: 040333-86B	
					Non-Fibers	100
2006095-93	2 21-Jan-20	Grey	Floor Leveling Compound	No	Client ID: 040333-86C	
					Non-Fibers	100
2006095-94	2 21-Jan-20	White	Tile Grout	No	Client ID: 040333-87A	
					Non-Fibers	100
2006095-95	2 21-Jan-20	White	Tile Grout	No	Client ID: 040333-87B	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-96	2 21-Jan-20	White	Tile Grout	No	Client ID: 040333-87C	
					Non-Fibers	100
2006095-97	2 21-Jan-20	White	Rough Coat	No	Client ID: 040333-88A	
					Non-Fibers	100
2006095-98	2 21-Jan-20	White	Rough Coat	No	Client ID: 040333-88B	
					Non-Fibers	100
2006095-99	2 21-Jan-20	White	Rough Coat	No	Client ID: 040333-88C	
					Non-Fibers	100
2006095-AA.1	2 21-Jan-20	Light Grey	Mortar	No	Client ID: 040333-89A	
					Non-Fibers	100
2006095-AA.2	2 21-Jan-20	Grey	Mortar	No	Client ID: 040333-89A	
					Non-Fibers	100
2006095-AB	2 21-Jan-20	Light Grey	Mortar	No	Client ID: 040333-89B	
					Non-Fibers	100
2006095-AC	2 21-Jan-20	Light Grey	Mortar	No	Client ID: 040333-89C	
					Non-Fibers	100
2006095-AD	2 21-Jan-20	Tan	Caulking	No	Client ID: 040333-91A	
					Non-Fibers	100
2006095-AE	2 21-Jan-20	Tan	Caulking	No	Client ID: 040333-91B	
					Non-Fibers	100
2006095-AF	2 21-Jan-20	Tan	Caulking	No	Client ID: 040333-91C	
					Non-Fibers	100
2006095-AG	2 21-Jan-20	White	Fibre Insulation	Yes	Client ID: 040333-92A	
					Amosite	15
					Non-Fibers	85

Certificate of Analysis

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Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-AH	2 21-Jan-20				Client ID: 040333-92B	
					not analyzed	
2006095-AI	2 21-Jan-20				Client ID: 040333-92C	
					not analyzed	
2006095-AJ	2 21-Jan-20	Grey	Vinyl Sheet Flooring	No	Client ID: 040333-93A	
					Cellulose	35
					Non-Fibers	65
2006095-AK	2 21-Jan-20	Grey	Vinyl Sheet Flooring	No	Client ID: 040333-93B	
					Cellulose	35
					Non-Fibers	65
2006095-AL	2 21-Jan-20	Grey	Vinyl Sheet Flooring	No	Client ID: 040333-93C	
					Cellulose	35
					Non-Fibers	65
2006095-AM	2 21-Jan-20	Grey	Floor Grout	No	Client ID: 040333-94A	
					Non-Fibers	100
2006095-AN	2 21-Jan-20	Grey	Floor Grout	No	Client ID: 040333-94B	
					Non-Fibers	100
2006095-AO	2 21-Jan-20	Grey	Floor Grout	No	Client ID: 040333-94C	
					Non-Fibers	100
2006095-AP	2 21-Jan-20	Grey	Caulking	No	Client ID: 040333-95A	
					Non-Fibers	100
2006095-AQ	2 21-Jan-20	Grey	Caulking	No	Client ID: 040333-95B	
					Non-Fibers	100
2006095-AR	2 21-Jan-20	Grey	Caulking	No	Client ID: 040333-95C	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-AS 2 21-Jan-20		White/Grey	Ceiling Tile	No	Client ID: 040333-96A	
					Cellulose	5
					MMVF	70
					Non-Fibers	25
2006095-AT 2 21-Jan-20		White/Grey	Ceiling Tile	No	Client ID: 040333-96B	
					Cellulose	5
					MMVF	70
					Non-Fibers	25
2006095-AU 2 21-Jan-20		White/Grey	Ceiling Tile	No	Client ID: 040333-96C	
					Cellulose	5
					MMVF	70
					Non-Fibers	25
2006095-AV 2 21-Jan-20		Blue	Vinyl Floor Tile	No	Client ID: 040333-97A	
					Non-Fibers	100
2006095-AW 2 21-Jan-20		Blue	Vinyl Floor Tile	No	Client ID: 040333-97B	
					Non-Fibers	100
2006095-AX 2 21-Jan-20		Blue	Vinyl Floor Tile	No	Client ID: 040333-97C	
					Non-Fibers	100
2006095-AY 2 21-Jan-20					Client ID: 040333-97A	[Z-01c]
					not analyzed	
2006095-AZ 2 21-Jan-20					Client ID: 040333-97B	[Z-01c]
					not analyzed	
2006095-BA 2 21-Jan-20					Client ID: 040333-97C	[Z-01c]
					not analyzed	

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-BB.1 1 21-Jan-20		Tan	Sheet Floor	No	Client ID: 040333-98A	
					Cellulose	15
					Non-Fibers	85
2006095-BB.2 1 21-Jan-20					Client ID: 040333-98A	
						[Z-01f]
					not analyzed	
2006095-BC.1 1 21-Jan-20		Tan	Sheet Floor	No	Client ID: 040333-98B	
					Cellulose	15
					Non-Fibers	85
2006095-BC.2 1 21-Jan-20		Brown	Mastic	No	Client ID: 040333-98B	
					Non-Fibers	100
2006095-BD.1 1 21-Jan-20		Tan	Sheet Floor	No	Client ID: 040333-98C	
					Cellulose	15
					Non-Fibers	85
2006095-BD.2 1 21-Jan-20					Client ID: 040333-98C	
						[Z-01f]
					not analyzed	
2006095-BE.1 1 21-Jan-20		Grey	Sheet floor	No	Client ID: 040333-98A	
					Cellulose	15
					Non-Fibers	85
2006095-BE.2 1 21-Jan-20					Client ID: 040333-98A	
						[Z-01f]
					not analyzed	
2006095-BF.1 1 21-Jan-20		Grey	Sheet floor	No	Client ID: 040333-98B	
					Cellulose	15
					Non-Fibers	85
2006095-BF.2 1 21-Jan-20					Client ID: 040333-98B	
						[Z-01f]
					not analyzed	

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-BG.1	1	21-Jan-20	Grey	No	Client ID: 040333-98C	
					Cellulose	15
					Non-Fibers	85
2006095-BG.2	1	21-Jan-20			Client ID: 040333-98C	[Z-01f]
					not analyzed	
2006095-BH	1	21-Jan-20	Grey	Yes	Client ID: 040333-99	
					Chrysotile	1
					Non-Fibers	99
2006095-BI	1	21-Jan-20	Grey	No	Client ID: 040333-100A	
					Non-Fibers	100
2006095-BJ	1	21-Jan-20	Grey	No	Client ID: 040333-100B	
					Non-Fibers	100
2006095-BK	1	21-Jan-20	Grey	No	Client ID: 040333-100C	
					Non-Fibers	100
2006095-BL	1	21-Jan-20	White	No	Client ID: 040333-101A	
					Non-Fibers	100
2006095-BM	1	21-Jan-20	White	No	Client ID: 040333-101B	
					Non-Fibers	100
2006095-BN	1	21-Jan-20	White	No	Client ID: 040333-101C	
					Non-Fibers	100
2006095-BO	1	21-Jan-20	Brown	No	Client ID: 040333-102A	
					Cellulose	10
					Non-Fibers	90

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-BP	1 21-Jan-20	Brown	Mastic	No	Client ID: 040333-102B	
					Cellulose	10
					Non-Fibers	90
2006095-BQ	1 21-Jan-20	Brown	Mastic	No	Client ID: 040333-102C	
					Cellulose	10
					Non-Fibers	90
2006095-BU	1 21-Jan-20	Grey	Caulking	No	Client ID: 040333-103A	
					Non-Fibers	100
2006095-BV	1 21-Jan-20	Grey	Caulking	No	Client ID: 040333-103B	
					Non-Fibers	100
2006095-BW	1 21-Jan-20	Grey	Caulking	No	Client ID: 040333-103C	
					Non-Fibers	100
2006095-BX	1 21-Jan-20	tan	Marble Grout	No	Client ID: 040333-104A	
					Non-Fibers	100
2006095-BY	1 21-Jan-20	tan	Marble Grout	No	Client ID: 040333-104B	
					Non-Fibers	100
2006095-BZ	1 21-Jan-20	tan	Marble Grout	No	Client ID: 040333-104C	
					Non-Fibers	100
2006095-CA	1 21-Jan-20	White	Plaster	No	Client ID: 040333-105A	
					Non-Fibers	100
2006095-CB	1 21-Jan-20	White	Plaster	No	Client ID: 040333-105B	
					Non-Fibers	100
2006095-CC	1 21-Jan-20	White	Plaster	No	Client ID: 040333-105C	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-CD 1 21-Jan-20		White	Plaster	No	Client ID: 040333-105D	
					Non-Fibers	100
2006095-CE 1 21-Jan-20		White	Plaster	No	Client ID: 040333-105E	
					Non-Fibers	100
2006095-CF 1 21-Jan-20		White	Plaster	No	Client ID: 040333-105F	
					Non-Fibers	100
2006095-CG 1 21-Jan-20		White	Plaster	No	Client ID: 040333-105G	
					Non-Fibers	100
2006095-CH 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105A	
					Non-Fibers	100
2006095-CI 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105B	
					Non-Fibers	100
2006095-CJ 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105C	
					Non-Fibers	100
2006095-CK 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105D	
					Non-Fibers	100 [Z-01k]
2006095-CL 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105E	
					Non-Fibers	100 [Z-01k]
2006095-CM 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105F	
					Non-Fibers	100
2006095-CN 1 21-Jan-20		Grey	Plaster	No	Client ID: 040333-105G	
					Non-Fibers	100
2006095-CO 1 21-Jan-20		White	Marble Grout	No	Client ID: 040333-106A	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-CP 1	21-Jan-20	Green	Marble Grout	No	Client ID: 040333-106B	
					Non-Fibers	100
2006095-CQ 1	21-Jan-20	Green	Marble Grout	No	Client ID: 040333-106C	
					Non-Fibers	100
2006095-CR 1	21-Jan-20	Black/Brown	Caulking	No	Client ID: 040333-107A	
					Non-Fibers	100
2006095-CS 1	21-Jan-20	Black/Brown	Caulking	No	Client ID: 040333-107B	
					Non-Fibers	100
2006095-CT 1	21-Jan-20	Black/Brown	Caulking	No	Client ID: 040333-107C	
					Non-Fibers	100
2006095-CU.1 1	21-Jan-20	Brown	Acoustic Ceiling Tile	No	Client ID: 040333-108A	
					Cellulose	95
					Non-Fibers	5
2006095-CU.2 1	21-Jan-20				Client ID: 040333-108A	
					[Z-01f] not analyzed	
2006095-CV.1 1	21-Jan-20	Brown	Acoustic Ceiling Tile	No	Client ID: 040333-108B	
					Cellulose	95
					Non-Fibers	5
2006095-CV.2 1	21-Jan-20	Grey	Acoustic Ceiling Tile	No	Client ID: 040333-108B	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2006095-CW.1 1	21-Jan-20	Brown	Acoustic Ceiling Tile	No	Client ID: 040333-108C	
					Cellulose	95
					Non-Fibers	5

Certificate of Analysis

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Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-CW.2 1	21-Jan-20	Grey	Acoustic Ceiling Tile	No	Client ID: 040333-108C	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2006095-CX 1	21-Jan-20	Brown	Mastic Pucks	No	Client ID: 040333-108A	
					Non-Fibers	100
2006095-CY 1	21-Jan-20	Brown	Mastic Pucks	No	Client ID: 040333-108B	
					Non-Fibers	100
2006095-CZ 1	21-Jan-20	Brown	Mastic Pucks	No	Client ID: 040333-108C	
					Non-Fibers	100
2006095-DA 1	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-109A	
					Non-Fibers	100
2006095-DB 1	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-109B	
					Non-Fibers	100
2006095-DC 1	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-109C	
					Non-Fibers	100
2006095-DD 1	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-109D	
					Non-Fibers	100
2006095-DE 1	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-109E	
					Non-Fibers	100
2006095-DF 1	21-Jan-20	Brown	Wood Mastic	No	Client ID: 040333-110A	
					Non-Fibers	100
2006095-DG 1	21-Jan-20	Brown	Wood Mastic	No	Client ID: 040333-110B	
					Non-Fibers	100

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-DH	1	21-Jan-20	Brown	No	Client ID: 040333-110C	
					Non-Fibers	100
2006095-DI	1	21-Jan-20	White	No	Client ID: 040333-111A	
					Non-Fibers	100
2006095-DJ	1	21-Jan-20	White	Yes	Client ID: 040333-111B	
					Chrysotile	1
					Non-Fibers	99
2006095-DK	1	21-Jan-20	White	Yes	Client ID: 040333-111C	
					Chrysotile	1
					Non-Fibers	99
2006095-DL	1	21-Jan-20	White	Yes	Client ID: 040333-111D	
					Chrysotile	1
					Non-Fibers	99
2006095-DM	1	21-Jan-20	White	Yes	Client ID: 040333-111E	
						[AS-PT]
					Chrysotile	0.5
2006095-DN	1	21-Jan-20	White	Yes	Client ID: 040333-111F	
						[AS-PT]
					Chrysotile	0.5
2006095-DO	1	21-Jan-20	White	Yes	Client ID: 040333-111G	
					Chrysotile	1
					Non-Fibers	99
2006095-DP	1	21-Jan-20	Grey	No	Client ID: 040333-112A	
					Non-Fibers	100
2006095-DQ	1	21-Jan-20	Grey	No	Client ID: 040333-112B	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-DR 1 21-Jan-20		Grey	Marble Grout	No	Client ID: 040333-112C	
					Non-Fibers	100
2006095-DS 1 21-Jan-20		Grey	Cement Panel	No	Client ID: 040333-113A	
					Non-Fibers	100
2006095-DT 1 21-Jan-20		Grey	Cement Panel	No	Client ID: 040333-113B	
					Non-Fibers	100
2006095-DU 1 21-Jan-20		Grey	Cement Panel	No	Client ID: 040333-113C	
					Non-Fibers	100
2006095-DV 1 21-Jan-20		Beige	Vinyl Floor Tile	No	Client ID: 040333-114A	
					Non-Fibers	100
2006095-DW 1 21-Jan-20		Beige	Vinyl Floor Tile	No	Client ID: 040333-114B	
					Non-Fibers	100
2006095-DX 1 21-Jan-20		Beige	Vinyl Floor Tile	No	Client ID: 040333-114C	
					Non-Fibers	100
2006095-DY 1 21-Jan-20		Yellow	Mastic	No	Client ID: 040333-114A	
					Non-Fibers	100
2006095-DZ 1 21-Jan-20		Yellow	Mastic	No	Client ID: 040333-114B	
					Non-Fibers	100
2006095-EA 1 21-Jan-20		Yellow	Mastic	No	Client ID: 040333-114C	
					Non-Fibers	100
2006095-EB 1 21-Jan-20		White	Drywall Joint Compound	No	Client ID: 040333-115A	
					Non-Fibers	100
2006095-EC 1 21-Jan-20		White	Drywall Joint Compound	No	Client ID: 040333-115B	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-ED 1 21-Jan-20		White	Drywall Joint Compound	No	Client ID: 040333-115C	
					Non-Fibers	100
2006095-EE 1 21-Jan-20		White	Drywall Joint Compound	No	Client ID: 040333-115D	
					Non-Fibers	100
2006095-EF 1 21-Jan-20		White	Drywall Joint Compound	No	Client ID: 040333-115E	
					Non-Fibers	100
2006095-EG 1 21-Jan-20		Beige	Floor Tile	No	Client ID: 040333-116A	
					Non-Fibers	100
2006095-EH 1 21-Jan-20		Beige	Floor Tile	No	Client ID: 040333-116B	
					Non-Fibers	100
2006095-EI 1 21-Jan-20		Beige	Floor Tile	No	Client ID: 040333-116C	
					Non-Fibers	100
2006095-EJ 1 21-Jan-20		Black	Mastic	No	Client ID: 040333-116A	
					Non-Fibers	100
2006095-EK 1 21-Jan-20		Black	Mastic	No	Client ID: 040333-116B	
					Non-Fibers	100
2006095-EL 1 21-Jan-20		Black	Mastic	No	Client ID: 040333-116C	
					Non-Fibers	100
2006095-EM 1 21-Jan-20		Grey	Caulking	No	Client ID: 040333-117A	
					Non-Fibers	100
2006095-EN 1 21-Jan-20		Grey	Caulking	No	Client ID: 040333-117B	
					Non-Fibers	100
2006095-EO 1 21-Jan-20		Grey	Caulking	No	Client ID: 040333-117C	
					Non-Fibers	100

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-EP 1	21-Jan-20	Black	Tar Patch	No	Client ID: 040333-118A	
					Non-Fibers	100
2006095-EQ 1	21-Jan-20	Black	Tar Patch	No	Client ID: 040333-118B	
					Non-Fibers	100
2006095-ER 1	21-Jan-20	Black	Tar Patch	No	Client ID: 040333-118C	
					Non-Fibers	100
2006095-ES 1	21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-119A	
					Non-Fibers	100
2006095-ET 1	21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-119B	
					Non-Fibers	100
2006095-EU 1	21-Jan-20	White	Drywall Joint Compound	No	Client ID: 040333-119C	
					Non-Fibers	100
2006095-EZ.1 1	21-Jan-20	White	Plaster	No	Client ID: 040333-121A	
					Non-Fibers	100
2006095-EZ.2 1	21-Jan-20	Grey	Plaster	No	Client ID: 040333-121A	
					Non-Fibers	100
2006095-FA.1 1	21-Jan-20	White	Plaster	No	Client ID: 040333-121B	
					Non-Fibers	100
2006095-FA.2 1	21-Jan-20	Grey	Plaster	No	Client ID: 040333-121B	
					Non-Fibers	100
2006095-FB.1 1	21-Jan-20	White	Plaster	No	Client ID: 040333-121C	
					Non-Fibers	100
2006095-FB.2 1	21-Jan-20	Grey	Plaster	No	Client ID: 040333-121C	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-FC	1	21-Jan-20	Grey	No	Client ID: 040333-122A	
					Non-Fibers	100
2006095-FD	1	21-Jan-20	Grey	No	Client ID: 040333-122B	
					Non-Fibers	100
2006095-FE	1	21-Jan-20	Grey	No	Client ID: 040333-122C	
					Non-Fibers	100
2006095-FF	1	21-Jan-20	White	No	Client ID: 040333-123A	
					Non-Fibers	100
2006095-FG	1	21-Jan-20	White	No	Client ID: 040333-123B	
					Non-Fibers	100
2006095-FH	1	21-Jan-20	White	No	Client ID: 040333-123C	
					Non-Fibers	100
2006095-FI	1	21-Jan-20	White	No	Client ID: 040333-123D	
					Non-Fibers	100
2006095-FJ	1	21-Jan-20	White	No	Client ID: 040333-123E	
					Non-Fibers	100
2006095-FK	1	21-Jan-20	White	No	Client ID: 040333-123F	
					Non-Fibers	100
2006095-FL	1	21-Jan-20	White	No	Client ID: 040333-123G	
					Non-Fibers	100
2006095-FM	1	21-Jan-20	White	No	Client ID: 040333-124A	
					Non-Fibers	100
2006095-FN	1	21-Jan-20	White	No	Client ID: 040333-124B	
					Non-Fibers	100

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-FO	1	21-Jan-20	White	No	Client ID: 040333-124C	
					Non-Fibers	100
2006095-FP	1	21-Jan-20	White	No	Client ID: 040333-124D	
					Non-Fibers	100
2006095-FQ	1	21-Jan-20	White	No	Client ID: 040333-124E	
					Non-Fibers	100
2006095-FR	3	21-Jan-20	Grey	No	Client ID: 040333-125A	
					Cellulose	30
					MMVF	30
					Non-Fibers	40
2006095-FS	3	21-Jan-20	Grey	No	Client ID: 040333-125B	
					Cellulose	30
					MMVF	30
					Non-Fibers	40
2006095-FT	3	21-Jan-20	Grey	No	Client ID: 040333-125C	
					Cellulose	30
					MMVF	30
					Non-Fibers	40
2006095-FU	3	21-Jan-20	Black/Grey	Yes	Client ID: 040333-126A	
					[AS-PT, Z-01b]	
					[ASTrc]Amosite	<MDL
2006095-FV	3	21-Jan-20	Black/Grey	No	Non-Fibers	100
					Client ID: 040333-126B	
					[Z-01b]	
					Cellulose	2
					MMVF	3
					Non-Fibers	95

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-FW 3 21-Jan-20		Black/Grey	Floor Mastic	No	Client ID: 040333-126C	
						[Z-01b]
					Cellulose	2
					MMVF	3
					Non-Fibers	95
2006095-FX 3 21-Jan-20		Black	Tar Membrane	No	Client ID: 040333-127A	
					Cellulose	1
					MMVF	1
					Non-Fibers	98
2006095-FY 3 21-Jan-20		Black	Tar Membrane	No	Client ID: 040333-127B	
					Cellulose	1
					MMVF	1
					Non-Fibers	98
2006095-FZ 3 21-Jan-20		Black	Tar Membrane	No	Client ID: 040333-127C	
					Cellulose	1
					MMVF	1
					Non-Fibers	98
2006095-GA 3 21-Jan-20		Black	Tar	No	Client ID: 040333-128A	
					Cellulose	1
					Non-Fibers	99
2006095-GB 3 21-Jan-20		Black	Tar	No	Client ID: 040333-128B	
					Cellulose	1
					Non-Fibers	99
2006095-GC 3 21-Jan-20		Black	Tar	No	Client ID: 040333-128C	
					Cellulose	1
					MMVF	1
					Non-Fibers	98
2006095-GD 3 21-Jan-20		Grey	Brick Mortar/Parge	No	Client ID: 040333-129A	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-GE 3 21-Jan-20		Grey	Brick Mortar/Parge	No	Client ID: 040333-129B	
					Non-Fibers	100
2006095-GF 3 21-Jan-20		Grey	Brick Mortar/Parge	No	Client ID: 040333-129C	
					Non-Fibers	100
2006095-GG 3 21-Jan-20		Grey	Caulking	No	Client ID: 040333-130A	
					Cellulose	2
					MMVF	3
					Non-Fibers	95
2006095-GH 3 21-Jan-20		Grey	Caulking	No	Client ID: 040333-130B	
					Cellulose	2
					MMVF	1
					Non-Fibers	97
2006095-GI 3 21-Jan-20		Grey	Caulking	No	Client ID: 040333-130C	
					Cellulose	3
					MMVF	2
					Non-Fibers	95
2006095-GJ.1 3 21-Jan-20		Grey	Caulking	No	Client ID: 040333-131A	
					Cellulose	2
					MMVF	1
					Non-Fibers	97
2006095-GJ.2 3 21-Jan-20		White	Caulking	No	Client ID: 040333-131A	
					Non-Fibers	100
2006095-GK.1 3 21-Jan-20		Grey	Caulking	No	Client ID: 040333-131B	
					Cellulose	2
					MMVF	1
					Non-Fibers	97

Certificate of Analysis

Report Date: 29-Jun-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 3-Feb-2020

Client PO:

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-GK.2 3	21-Jan-20				Client ID: 040333-131B	
						[Z-01g]
					not analyzed	
2006095-GL.1 3	21-Jan-20	Grey	Caulking	No	Client ID: 040333-131C	
					Cellulose	2
					MMVF	1
					Non-Fibers	97
2006095-GL.2 3	21-Jan-20	White	Caulking	No	Client ID: 040333-131C	
					Non-Fibers	100
2006095-GM 3	21-Jan-20	Black	Caulking	No	Client ID: 040333-132A	
					Cellulose	5
					MMVF	2
					Non-Fibers	93
2006095-GN 3	21-Jan-20	Grey	Caulking	No	Client ID: 040333-132B	
					Non-Fibers	100
2006095-GO 3	21-Jan-20	Grey	Caulking	No	Client ID: 040333-132C	
					Non-Fibers	100
2006095-GP 3	21-Jan-20	Black	Tar	No	Client ID: 040333-133A	
					Cellulose	2
					MMVF	1
					Non-Fibers	97
2006095-GQ 3	21-Jan-20	Black	Tar	No	Client ID: 040333-133B	
					Cellulose	2
					MMVF	1
					Non-Fibers	97
2006095-GR 3	21-Jan-20	Black	Tar	No	Client ID: 040333-133C	
					Cellulose	2
					Non-Fibers	98

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-GS 3 21-Jan-20		Tan	Caulking	No	Client ID: 040333-134A	
					Non-Fibers	100
2006095-GT 3 21-Jan-20		Tan	Caulking	No	Client ID: 040333-134B	
					Non-Fibers	100
2006095-GU 3 21-Jan-20		Tan	Caulking	No	Client ID: 040333-134C	
					Non-Fibers	100
2006095-GV 3 21-Jan-20		Grey	Parge Patch	No	Client ID: 040333-135A	
					Non-Fibers	100
2006095-GW 3 21-Jan-20		Grey	Parge Patch	No	Client ID: 040333-135B	
					Non-Fibers	100
2006095-GX 3 21-Jan-20		Grey	Parge Patch	No	Client ID: 040333-135C	
					Non-Fibers	100
2006095-GY 3 21-Jan-20		Pink	Vinyl Floor Tile	No	Client ID: 040333-136A	
					Non-Fibers	100
2006095-GZ 3 21-Jan-20		Pink	Vinyl Floor Tile	No	Client ID: 040333-136B	
					Non-Fibers	100
2006095-HA 3 21-Jan-20		Pink	Vinyl Floor Tile	No	Client ID: 040333-136C	
					Non-Fibers	100
2006095-HB 3 21-Jan-20		Black	Mastic	No	Client ID: 040333-136A	
					Cellulose	3
					Non-Fibers	97
2006095-HC 3 21-Jan-20		Black	Mastic	No	Client ID: 040333-136B	
					Cellulose	2
					Non-Fibers	98

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-HD 3 21-Jan-20		Black	Mastic	No	Client ID: 040333-136C	
					Cellulose	2
					Non-Fibers	98
2006095-HE 3 21-Jan-20		Light Grey	Block Mortar	No	Client ID: 040333-137A	
					Non-Fibers	100
2006095-HF 3 21-Jan-20		Dark Grey	Block Mortar	No	Client ID: 040333-137B	
					Non-Fibers	100
2006095-HG.1 3 21-Jan-20		Light Grey	Block Mortar	No	Client ID: 040333-137C	
					Non-Fibers	100
2006095-HG.2 3 21-Jan-20		Dark Grey	Block Mortar	No	Client ID: 040333-137C	
					Non-Fibers	100
2006095-HH 3 21-Jan-20		Light Grey	Block Mortar	No	Client ID: 040333-137D	
					Non-Fibers	100
2006095-HI 3 21-Jan-20		Light Grey	Block Mortar	No	Client ID: 040333-137E	
					Non-Fibers	100
2006095-HJ 3 21-Jan-20		Grey	Parge	Yes	Client ID: 040333-138A	
					Chrysotile	5
					Non-Fibers	95
2006095-HK 3 21-Jan-20					Client ID: 040333-138B	
					not analyzed	
2006095-HL 3 21-Jan-20					Client ID: 040333-138C	
					not analyzed	
2006095-HM.1 3 21-Jan-20		White	Plaster	No	Client ID: 040333-139A	
					Non-Fibers	100

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-HM.2 3	21-Jan-20	Grey	Plaster	No	Client ID: 040333-139A	
					Non-Fibers	99
					Other fibers	1
2006095-HN.1 3	21-Jan-20	White	Plaster	Yes	Client ID: 040333-139B	
					Chrysotile	1
					Non-Fibers	99
2006095-HN.2 3	21-Jan-20	Grey	Plaster	No	Client ID: 040333-139B	
					Non-Fibers	99
					Other fibers	1
2006095-HO.1 3	21-Jan-20	White	Plaster	No	Client ID: 040333-139C	
					Non-Fibers	100
2006095-HO.2 3	21-Jan-20	Grey	Plaster	Yes	Client ID: 040333-139C	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2006095-HP 3	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-140A	
					Non-Fibers	100
2006095-HQ 3	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-140B	
					Non-Fibers	100
2006095-HR 3	21-Jan-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-140C	
					Non-Fibers	100
2006095-HS 3	21-Jan-20	Black	Caulking	Yes	Client ID: 040333-141A	
					Chrysotile	8
					MMVF	2
					Non-Fibers	90

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO:

Report Date: 29-Jun-2020

Order Date: 3-Feb-2020

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2006095-HT	3 21-Jan-20				Client ID: 040333-141B	
					not analyzed	
2006095-HU	3 21-Jan-20				Client ID: 040333-141C	
					not analyzed	
2006095-HV	3 21-Jan-20	Grey	Parging	Yes	Client ID: 040333-142A	
					Chrysotile	1
					Non-Fibers	99
2006095-HW	3 21-Jan-20				Client ID: 040333-142B	
					not analyzed	
2006095-HX	3 21-Jan-20				Client ID: 040333-142C	
					not analyzed	
2006095-HY	3 21-Jan-20	White	Caulking	No	Client ID: 040333-143A	
					Non-Fibers	100
2006095-HZ	3 21-Jan-20	White	Caulking	No	Client ID: 040333-143B	
					Non-Fibers	100
2006095-IA	3 21-Jan-20	White	Caulking	No	Client ID: 040333-143C	
					Non-Fibers	100

* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

** Analytes in bold indicate asbestos mineral content.

Certificate of Analysis

Report Date: 29-Jun-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 3-Feb-2020

Client PO:

Project Description: GV OT 040333

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	*	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	1 - Mississauga	NVLAP 200863-0		6-Feb-20
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	2 - Ottawa West	NVLAP 200812-0		7-Feb-20
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	3 - Calgary	CALA A3990		6-Feb-20

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

Ottawa West Lab: 25 Northside Rd, Unit C Nepean, Ontario K2H 8S1
Mississauga Lab: 15 - 6800 Kitimat Rd Mississauga, Ontario, L5N 5M1
Calgary Lab: 1423 45 Ave NE, Unit F Calgary, AB, T2E 2P3

Qualifier Notes

Sample Qualifiers :

AS-PRE: Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis

AS-PT: Asbestos quantitation by PLM Point Count method.

ASTrc: Trace asbestos was observed below the noted detection limit but could not be accurately quantified.

Z-01: Appears to be grey.

Z-01a: Contains vermiculite.

Z-01b: Inseparable layers.

Z-01c: Layer not present.

Z-01d: Low sample volume.

Z-01e: Low sample volume. Contains vermiculite.

Z-01f: No sample.

Z-01g: No white caulking present.

Z-01h: Sample appears to be mastic.

Z-01i: Sample appears to be orange foam.

Z-01j: Sample appears to be white plaster and vermiculite-containing grey plaster. Low sample volume. Layers inseparable.

Z-01k: Sample contains vermiculite.

Work Order Revisions | Comments

Revision 1. Updated report to include changes to materials identifications, per client request.

Revision 2: This version contains amended sample prefixes.

Certificate of Analysis

DST Consulting Engineers Inc. (Ottawa)

203-2150 Thurston Dr.
Ottawa, ON K1G 5T9
Attn: Amanda Eliot

Client PO: SCC
Project: GV OT 040333
Custody: 42091

Report Date: 18-Feb-2020
Order Date: 11-Feb-2020

Order #: 2007142

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

Paracel ID	Client ID
2007142-01	040333 144 A
2007142-02	040333 144 B
2007142-03	040333 144 C
2007142-04	040333 144 D
2007142-05	040333 144 E
2007142-06	040333 144 A
2007142-07	040333 144 B
2007142-08	040333 144 C
2007142-09	040333 144 D
2007142-10	040333 144 E
2007142-11	040333 145 A
2007142-12	040333 145 B
2007142-13	040333 145 C
2007142-14	040333 146 A
2007142-15	040333 146 B
2007142-16	040333 146 C
2007142-17	040333 146 D
2007142-18	040333 146 E
2007142-19	040333 147 A
2007142-20	040333 147 B
2007142-21	040333 147 C
2007142-22	040333 147 D
2007142-23	040333 147 E
2007142-24	040333 148 A
2007142-25	040333 148 B
2007142-26	040333 148 C

Approved By:



Heather S.H. McGregor, BSc

Laboratory Director - Microbiology

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: SCC

Report Date: 18-Feb-2020

Order Date: 11-Feb-2020

Project Description: GV OT 040333

2007142-27	040333 149 A
2007142-28	040333 149 B
2007142-29	040333 149 C
2007142-30	040333 150 A
2007142-31	040333 150 B
2007142-32	040333 150 C

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO: **SCC**

Report Date: 18-Feb-2020

Order Date: 11-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2007142-01	10-Feb-20	Grey	Parging	No	Client ID: 040333 144 A	
					Non-Fibers	99
					Other fibers	1
2007142-02	10-Feb-20				Client ID: 040333 144 B	
						[Z-01a]
					not analyzed	
2007142-03	10-Feb-20	Grey	Parging	No	Client ID: 040333 144 C	
					Non-Fibers	100
2007142-04	10-Feb-20				Client ID: 040333 144 D	
						[Z-01]
					not analyzed	
2007142-05	10-Feb-20	Grey	Parging	No	Client ID: 040333 144 E	
					Non-Fibers	100
2007142-06	10-Feb-20	Grey	Rough Coat	Yes	Client ID: 040333 144 A	
						[AS-PT]
				[ASTrc]	Chrysotile	<MDL
					Non-Fibers	99
					Other fibers	1
2007142-07	10-Feb-20				Client ID: 040333 144 B	
						[Z-01a]
					not analyzed	
2007142-08	10-Feb-20				Client ID: 040333 144 C	
						[Z-01]
					not analyzed	
2007142-09	10-Feb-20	Grey	Rough Coat	No	Client ID: 040333 144 D	
					Non-Fibers	100
2007142-10	10-Feb-20				Client ID: 040333 144 E	
						[Z-01]
					not analyzed	
2007142-11	10-Feb-20	Black	Tar	No	Client ID: 040333 145 A	
						[AS-PRE]
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO: **SCC**

Report Date: 18-Feb-2020

Order Date: 11-Feb-2020

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2007142-12	10-Feb-20	Black	Tar	No	Client ID: 040333 145 B	
					Non-Fibers	100
2007142-13	10-Feb-20	Black	Tar	No	Client ID: 040333 145 C	
					Non-Fibers	100
2007142-14	10-Feb-20	Grey	Parging	Yes	Client ID: 040333 146 A	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2007142-15	10-Feb-20				Client ID: 040333 146 B	
					not analyzed	
2007142-16	10-Feb-20				Client ID: 040333 146 C	
					not analyzed	
2007142-17	10-Feb-20				Client ID: 040333 146 D	
					not analyzed	
2007142-18	10-Feb-20				Client ID: 040333 146 E	
					not analyzed	
2007142-19	10-Feb-20	Grey	Parging	No	Client ID: 040333 147 A	
					Non-Fibers	100
2007142-20	10-Feb-20	Grey	Parging	No	Client ID: 040333 147 B	
					Non-Fibers	100
2007142-21	10-Feb-20	Grey	Parging	No	Client ID: 040333 147 C	
					Non-Fibers	100
2007142-22	10-Feb-20	Grey	Parging	No	Client ID: 040333 147 D	
					Non-Fibers	100

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: SCC

Report Date: 18-Feb-2020

Order Date: 11-Feb-2020

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2007142-23	10-Feb-20	Grey	Parging	No	Client ID: 040333 147 E	
					Non-Fibers	100
2007142-24	10-Feb-20	Black	Tar	No	Client ID: 040333 148 A	
					[AS-PRE]	
					Non-Fibers	100
2007142-25	10-Feb-20	Black	Tar	No	Client ID: 040333 148 B	
					[AS-PRE]	
					Non-Fibers	100
2007142-26	10-Feb-20	Black	Tar	No	Client ID: 040333 148 C	
					[AS-PRE]	
					Non-Fibers	100
2007142-27	10-Feb-20	White	Parging	No	Client ID: 040333 149 A	
					Non-Fibers	100
2007142-28	10-Feb-20	White	Parging	No	Client ID: 040333 149 B	
					Non-Fibers	100
2007142-29	10-Feb-20	White	Parging	No	Client ID: 040333 149 C	
					Non-Fibers	100
2007142-30	10-Feb-20	Yellow	Mastic	No	Client ID: 040333 150 A	
					Non-Fibers	100
2007142-31	10-Feb-20	Yellow	Mastic	No	Client ID: 040333 150 B	
					Non-Fibers	100
2007142-32	10-Feb-20	Yellow	Mastic	No	Client ID: 040333 150 C	
					Non-Fibers	100

** Analytes in bold indicate asbestos mineral content.

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: SCC

Report Date: 18-Feb-2020

Order Date: 11-Feb-2020

Project Description: GV OT 040333

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	*	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	2 - Ottawa West	NVLAP 200812-0		18-Feb-20

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

Ottawa West Lab: 25 Northside Rd, Unit C Nepean, Ontario K2H 8S1

Qualifier Notes

Sample Qualifiers :

AS-PRE: Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis

AS-PT: Asbestos quantitation by PLM Point Count method.

ASTrc: Trace asbestos was observed below the noted detection limit but could not be accurately quantified.

Z-01: Layer not present.

Z-01a: No sample bag submitted.

Work Order Revisions | Comments

None

Certificate of Analysis

DST Consulting Engineers Inc. (Ottawa)

203-2150 Thurston Dr.
Ottawa, ON K1G 5T9
Attn: Kyle Thompson

Client PO:
Project: 1940333.000
Custody: 51165

Report Date: 25-Jan-2021
Order Date: 19-Jan-2021

Order #: 2104158

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

Paracel ID	Client ID
2104158-01	SCC-S1a
2104158-02	SCC-S1b
2104158-03	SCC-S1c

Approved By:



Emma Diaz
Senior Analyst

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO:

Report Date: 25-Jan-2021

Order Date: 19-Jan-2021

Project Description: **1940333.000**
Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2104158-01	18-Jan-21	White	Mortar	No	Client ID: SCC-S1a	
					Non-Fibers	100
2104158-02	18-Jan-21	White	Mortar	No	Client ID: SCC-S1b	
					Non-Fibers	100
2104158-03	18-Jan-21	White	Mortar	No	Client ID: SCC-S1c	
					Non-Fibers	100

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	*	Analysis Date
Asbestos, PLM Visual Estimation	AppE to SubE of 40CFR Part753 and EPA/600/R-93/116	2 - Ottawa West	NVLAP 200812-0		25-Jan-21

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

Ottawa West Lab: 25 Northside Rd, Unit C Nepean, Ontario K2H 8S1

Work Order Revisions | Comments

None

Certificate of Analysis

DST Consulting Engineers Inc. (Ottawa)

203-2150 Thurston Dr.
Ottawa, ON K1G 5T9
Attn: Amanda Eliot

Client PO:

Project: GV OT 040333

Custody: 42101

Report Date: 13-May-2020

Order Date: 6-May-2020

Order #: 2019299

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

Paracel ID	Client ID
2019299-01.1	040333-RA-1
2019299-01.2	040333-RA-1
2019299-01.3	040333-RA-1
2019299-02.1	040333-RA-2
2019299-02.2	040333-RA-2
2019299-02.3	040333-RA-2
2019299-02.4	040333-RA-2
2019299-03.1	040333-RA-3
2019299-03.2	040333-RA-3
2019299-03.3	040333-RA-3
2019299-03.4	040333-RA-3

Approved By:



Heather S.H. McGregor, BSc

Laboratory Director - Microbiology

Certificate of Analysis

Report Date: 13-May-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 6-May-2020

Client PO:

Project Description: **GV OT 040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2019299-01.1	06-May-20	Black/Brown	Roofing Layer	No	Client ID: 040333-RA-1	
						[AS-PRE]
					MMVF	10
					Non-Fibers	70
2019299-01.2	06-May-20	Yellow	Roofing Layer	No	Client ID: 040333-RA-1	
					MMVF	90
					Non-Fibers	10
2019299-01.3	06-May-20	Blue	Roofing Layer	No	Client ID: 040333-RA-1	
					Non-Fibers	100
2019299-02.1	06-May-20	Black	Roofing Layer	No	Client ID: 040333-RA-2	
						[AS-PRE, Z-01]
					MMVF	1
					Non-Fibers	99
2019299-02.2	06-May-20	Black/Brown	Roofing Layer	No	Client ID: 040333-RA-2	
						[AS-PRE]
					MMVF	10
					Non-Fibers	70
2019299-02.3	06-May-20	Yellow	Roofing Layer	No	Client ID: 040333-RA-2	
					MMVF	90
					Non-Fibers	10
2019299-02.4	06-May-20	Black	Roofing Layer	No	Client ID: 040333-RA-2	
						[AS-PRE, Z-01a]
					MMVF	5
					Non-Fibers	95
2019299-03.1	06-May-20	Black	Roofing Layer	No	Client ID: 040333-RA-3	
						[AS-PRE]
					MMVF	1
					Non-Fibers	99

Certificate of Analysis

Report Date: 13-May-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 6-May-2020

Client PO:

Project Description: GV OT 040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2019299-03.2	06-May-20	Black/Brown	Roofing Layer	No	Client ID: 040333-RA-3	[AS-PRE]
					MMVF	10
					Non-Fibers	70
					Other fibers	20
2019299-03.3	06-May-20	Yellow	Roofing Layer	No	Client ID: 040333-RA-3	
					MMVF	90
					Non-Fibers	10
2019299-03.4	06-May-20	Blue	Roofing Layer	No	Client ID: 040333-RA-3	
					Non-Fibers	100

* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	*	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	2 - Ottawa West	NVLAP 200812-0		13-May-20

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

Ottawa West Lab: 25 Northside Rd, Unit C Nepean, Ontario K2H 8S1

Qualifier Notes

Sample Qualifiers :

AS-PRE: Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis

Z-01: Sample appears to be cementitious.

Z-01a: Sample appears to be tar coating on yellow layer.

Work Order Revisions | Comments

None

Certificate of Analysis

DST Consulting Engineers Inc. (Ottawa)

203-2150 Thurston Dr.
Ottawa, ON K1G 5T9
Attn: Kyle Thompson

Client PO: Supreme Court

Project: GVOT040333

Custody: 49450/49451/49455/49453

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Revised Report

Order #: 2044325

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

Paracel ID	Client ID
2044325-01	040333-151 A
2044325-02	040333-151 B
2044325-03	040333-151 C
2044325-04	040333-152 A
2044325-05	040333-152 B
2044325-06	040333-152 C
2044325-07	040333-153 A
2044325-08	040333-153 B
2044325-09	040333-153 C
2044325-10	040333-154 A
2044325-11	040333-154 B
2044325-12	040333-154 C
2044325-13	040333-154 D
2044325-14	040333-154 E
2044325-15	040333-154 F
2044325-16	040333-154 G
2044325-17	040333-155 A
2044325-18	040333-155 B
2044325-19	040333-155 C
2044325-20	040333-156 A
2044325-21	040333-156 B
2044325-22	040333-156 C
2044325-23.1	040333-STSB2-01A
2044325-23.2	040333-STSB2-01A
2044325-24.1	040333-STSB2-01B
2044325-24.2	040333-STSB2-01B

Approved By:



Emma Diaz

Senior Analyst

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: Supreme Court

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: GVOT040333

2044325-25.1	040333-STSB A2-01C
2044325-25.2	040333-STSB A2-01C
2044325-26	040333-GRN(SB)-01A
2044325-27	040333-GRN(SB)-01B
2044325-28	040333-GRN(SB)-01C
2044325-29	040333-BLUEDASH (SB)-01A
2044325-30	040333-BLUEDASH (SB)-01B
2044325-31	040333-BLUEDASH (SB)-01C
2044325-32	040333-BLUEDASH (SB)-02A
2044325-33	040333-BLUEDASH (SB)-02B
2044325-34	040333-BLUEDASH (SB)-02C
2044325-35	040333-BLUEDASH (SB)-02A
2044325-36	040333-BLUEDASH (SB)-02B
2044325-37	040333-BLUEDASH (SB)-02C
2044325-38	040333-GRY(SB)-01A
2044325-39	040333-GRY(SB)-01B
2044325-40	040333-GRY(SB)-01C
2044325-41	040333-GRY(SB)-01D
2044325-42	040333-GRY(SB)-01E
2044325-43	040333-GRY(SB)-01F
2044325-44.1	040333-GRY(SB)-01G
2044325-44.2	040333-GRY(SB)-01G
2044325-45	040333-GRY(SB)-02A
2044325-46	040333-GRY(SB)-02B
2044325-47	040333-GRY(SB)-02C
2044325-48.1	040333-BLU(B)-01A
2044325-48.2	040333-BLU(B)-01A
2044325-49	040333-BLU(B)-01B
2044325-50	040333-BLU(B)-01C
2044325-51	040333-BLU(B)-01D
2044325-52	040333-BLU(B)-01E
2044325-53	040333-BLUEDASH(B)-01A
2044325-54	040333-BLUEDASH(B)-01B
2044325-55	040333-BLUEDASH(B)-01C
2044325-56	040333-PURPLE(B)-01A
2044325-57	040333-PURPLE(B)-01B
2044325-58	040333-PURPLE(B)-01C
2044325-59	040333-ORG(B)-01A
2044325-60	040333-ORG(B)-01B
2044325-61	040333-ORG(B)-01C
2044325-62	040333-GRY(B)-01A
2044325-63	040333-GRY(B)-01B
2044325-64	040333-GRY(B)-01C
2044325-65	040333-RED DASH(B)-01A

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: Supreme Court

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: GVOT040333

2044325-66	040333-RED DASH(B)-01B
2044325-67	040333-RED DASH(B)-01C
2044325-68	040333-GRN(B)-01A
2044325-69	040333-GRN(B)-01B
2044325-70.1	040333-GRN(B)-01C
2044325-70.2	040333-GRN(B)-01C
2044325-71	040333-GRN(B)-02A
2044325-72	040333-GRN(B)-02B
2044325-73	040333-GRN(B)-02C
2044325-74	040333-PINK(B)-01A
2044325-75	040333-PINK(B)-01B
2044325-76	040333-PINK(B)-01C
2044325-77	040333-PINK(B)-01D
2044325-78	040333-PINK(B)-01E
2044325-79	040333-PINK(B)-01F
2044325-80	040333-PINK(B)-01G
2044325-81	040333-PINK(B)-02A
2044325-82	040333-PINK(B)-02B
2044325-83	040333-PINK(B)-02C
2044325-84	040333-PINK(B)-02A
2044325-85	040333-PINK(B)-02B
2044325-86	040333-PINK(B)-02C
2044325-87	040333-GRY(G)-01A
2044325-88	040333-GRY(G)-01B
2044325-89	040333-GRY(G)-01C
2044325-90	040333-PINK(G)-01A
2044325-91	040333-PINK(G)-01B
2044325-92	040333-PINK(G)-01C
2044325-93	040333-PINK(G)-01A
2044325-94	040333-PINK(G)-01B
2044325-95	040333-PINK(G)-01C
2044325-96	040333-GRN(G)-01A
2044325-97	040333-GRN(G)-01B
2044325-98	040333-GRN(G)-01C
2044325-99	040333-GRN(G)-01A
2044325-AA	040333-GRN(G)-01B
2044325-AB	040333-GRN(G)-01C
2044325-AC	040333-PURPLE(G)-01A
2044325-AD	040333-PURPLE(G)-01B
2044325-AE	040333-PURPLE(G)-01C
2044325-AF	040333-PURPLE(G)-01A
2044325-AG	040333-PURPLE(G)-01B
2044325-AH	040333-PURPLE(G)-01C
2044325-AI	040333-ORG(G)-01A

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: Supreme Court

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: GVOT040333

2044325-AJ	040333-ORG(G)-01B
2044325-AK	040333-ORG(G)-01C
2044325-AL	040333-ORG(G)-01A
2044325-AM	040333-ORG(G)-01B
2044325-AN	040333-ORG(G)-01C
2044325-AO	040333-ORG(I)-01A
2044325-AP	040333-ORG(I)-01B
2044325-AQ	040333-ORG(I)-01C
2044325-AR	040333-GRY(I)-01A
2044325-AS	040333-GRY(I)-01B
2044325-AT	040333-GRY(I)-01C
2044325-AU	040333-GRY(I)-02A
2044325-AV	040333-GRY(I)-02B
2044325-AW	040333-GRY(I)-02C
2044325-AX	040333-YLW(2)-01A
2044325-AY	040333-YLW(2)-01B
2044325-AZ	040333-YLW(2)-01C
2044325-BA	040333-YLW(2)-02A
2044325-BB	040333-YLW(2)-02B
2044325-BC	040333-YLW(2)-02C
2044325-BD.1	040333-GRN(2)-01A
2044325-BD.2	040333-GRN(2)-01A
2044325-BE.1	040333-GRN(2)-01B
2044325-BE.2	040333-GRN(2)-01B
2044325-BF.1	040333-GRN(2)-01C
2044325-BF.2	040333-GRN(2)-01C
2044325-BG.1	040333-GRN(2)-01D
2044325-BG.2	040333-GRN(2)-01D
2044325-BH.1	040333-GRN(2)-01E
2044325-BH.2	040333-GRN(2)-01E
2044325-BI	040333-DPYLW(3)-01A
2044325-BJ	040333-DPYLW(3)-01B
2044325-BK	040333-DPYLW(3)-01C
2044325-BL	040333-PINK(3)-01A
2044325-BM	040333-PINK(3)-01B
2044325-BN	040333-PINK(3)-01C
2044325-BO	040333-BLUEDASH(3)-01A
2044325-BP	040333-BLUEDASH(3)-01B
2044325-BQ	040333-BLUEDASH(3)-01C
2044325-BR	040333-LTBLUE(3)-01A
2044325-BS	040333-LTBLUE(3)-01B
2044325-BT	040333-LTBLUE(3)-01C
2044325-BU	040333-ORGDASH(3)-01A
2044325-BV	040333-ORGDASH(3)-01B

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: Supreme Court

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: GVOT040333

2044325-BW	040333-ORGDASH(3)-01C
2044325-BX	040333-PURPLE(3)-01A
2044325-BY	040333-PURPLE(3)-01B
2044325-BZ	040333-DPORG(3)-01A
2044325-CA	040333-DPORG(3)-01B
2044325-CB	040333-DPORG(3)-01C
2044325-CC	040333-DPORG(3)-01D
2044325-CD	040333-DPORG(3)-01E
2044325-CE	040333-LTGRY(3)-01A
2044325-CF	040333-LTGRY(3)-01B
2044325-CG	040333-LTGRY(3)-01C
2044325-CH	040333-LTGRN(3)-01A
2044325-CI	040333-LTGRN(3)-01B
2044325-CJ	040333-LTGRN(3)-01C
2044325-CK	040333-LTGRN(3)-01D
2044325-CL	040333-LTGRN(3)-01E
2044325-CM	040333-LTGRN(3)-02A
2044325-CN	040333-LTGRN(3)-02B
2044325-CO	040333-LTGRN(3)-02C
2044325-CP	040333-LTGRN(3)-02A
2044325-CQ	040333-LTGRN(3)-02B
2044325-CR	040333-LTGRN(3)-02C
2044325-CS	040333-SKYBLU(3)-01A
2044325-CT	040333-SKYBLU(3)-01B
2044325-CU	040333-SKYBLU(3)-01C
2044325-CV	040333-EV4-01A
2044325-CW	040333-EV4-01B
2044325-CX	040333-EV4-01C
2044325-CY	040333-EV4-02A
2044325-CZ	040333-EV4-02B
2044325-DA	040333-EV4-02C
2044325-DB	040333-EV4-02D
2044325-DC	040333-EV4-02E
2044325-DD	040333-EV4-03A
2044325-DE	040333-EV4-03B
2044325-DF	040333-EV4-03C
2044325-DG	040333-EV4-04A
2044325-DH	040333-EV4-04B
2044325-DI	040333-EV4-04C

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO: **Supreme Court**

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-01	2 26-Oct-20	Black	Caulking	No	Client ID: 040333-151 A	
					Non-Fibers	100
2044325-02	2 26-Oct-20	Black	Caulking	No	Client ID: 040333-151 B	
					Non-Fibers	100
2044325-03	2 26-Oct-20	Black	Caulking	No	Client ID: 040333-151 C	
					Non-Fibers	100
2044325-04	2 26-Oct-20	Grey	Mortar	No	Client ID: 040333-152 A	
					Non-Fibers	100
2044325-05	2 26-Oct-20	Grey	Mortar	No	Client ID: 040333-152 B	
					Non-Fibers	100
2044325-06	2 26-Oct-20	Grey	Mortar	No	Client ID: 040333-152 C	
					Non-Fibers	100
2044325-07	2 26-Oct-20	Grey	Parging	No	Client ID: 040333-153 A	
					Non-Fibers	100
2044325-08	2 26-Oct-20	Grey	Parging	No	Client ID: 040333-153 B	
					Non-Fibers	100
2044325-09	2 26-Oct-20	Grey	Parging	No	Client ID: 040333-153 C	
					Non-Fibers	100
2044325-10	2 26-Oct-20	Grey	Stone Mortar	No	Client ID: 040333-154 A	
					Non-Fibers	100
2044325-11	2 26-Oct-20	Grey	Stone Mortar	No	Client ID: 040333-154 B	
					Non-Fibers	100
2044325-12	2 26-Oct-20	Grey	Stone Mortar	No	Client ID: 040333-154 C	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 28-Oct-2020

Client PO: **Supreme Court**

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-13	2	26-Oct-20	Grey	No	Client ID: 040333-154 D	
					Non-Fibers	100
2044325-14	2	26-Oct-20	Grey	No	Client ID: 040333-154 E	
					Non-Fibers	100
2044325-15	2	26-Oct-20	Grey	No	Client ID: 040333-154 F	
					Non-Fibers	100
2044325-16	2	26-Oct-20	Grey	No	Client ID: 040333-154 G	
					Non-Fibers	100
2044325-17	2	26-Oct-20	Grey	No	Client ID: 040333-155 A	
					Non-Fibers	100
2044325-18	2	26-Oct-20	Grey	No	Client ID: 040333-155 B	
					Non-Fibers	100
2044325-19	2	26-Oct-20	Grey	No	Client ID: 040333-155 C	
					Non-Fibers	100
2044325-20	2	26-Oct-20	Grey	No	Client ID: 040333-156 A	
					Non-Fibers	100
2044325-21	2	26-Oct-20	Grey	No	Client ID: 040333-156 B	
					Non-Fibers	100
2044325-22	2	26-Oct-20	Grey	No	Client ID: 040333-156 C	
					Non-Fibers	100
2044325-23.1	2	26-Oct-20	White	No	Client ID: 040333-STSBA2-01A	
					Non-Fibers	100
2044325-23.2	2	26-Oct-20	Grey	Yes	Client ID: 040333-STSBA2-01A	
						[Z-01c]
					Tremolite	1
					Non-Fibers	99

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-24.1	2 26-Oct-20	White	Plaster	No	Client ID: 040333-STSB2-01B	
					Non-Fibers	100
2044325-24.2	2 26-Oct-20	Grey	Plaster		Client ID: 040333-STSB2-01B	
					not analyzed, positive stop	
2044325-25.1	2 26-Oct-20	White	Plaster	No	Client ID: 040333-STSB2-01C	
					Non-Fibers	100
2044325-25.2	2 26-Oct-20	Grey	Plaster		Client ID: 040333-STSB2-01C	
					not analyzed, positive stop	
2044325-26	2 26-Oct-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-GRN(SB)-01A	
					Non-Fibers	100
2044325-27	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-GRN(SB)-01B	
					Non-Fibers	100
2044325-28	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-GRN(SB)-01C	
					Non-Fibers	100
2044325-29	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-BLUEDASH (SB)-01A	
					Non-Fibers	100
2044325-30	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-BLUEDASH (SB)-01B	
					Non-Fibers	100
2044325-31	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-BLUEDASH (SB)-01C	
					Non-Fibers	100
2044325-32	2 26-Oct-20	White	Texture Coat	No	Client ID: 040333-BLUEDASH (SB)-02A	
					Non-Fibers	100
2044325-33	2 26-Oct-20	White	Texture Coat	No	Client ID: 040333-BLUEDASH (SB)-02B	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-34	2	26-Oct-20	White	No	Client ID: 040333-BLUEDASH (SB)-02C	
					Non-Fibers	100
2044325-35	2	26-Oct-20	Grey	No	Client ID: 040333-BLUEDASH (SB)-02A	
					Non-Fibers	100
2044325-36	2	26-Oct-20	Grey	No	Client ID: 040333-BLUEDASH (SB)-02B	
					Non-Fibers	100
2044325-37	2	26-Oct-20	Grey		Client ID: 040333-BLUEDASH (SB)-02C	
					not analyzed	[Z-01]
2044325-38	2	26-Oct-20	Off-white	No	Client ID: 040333-GRY(SB)-01A	
					Non-Fibers	100
2044325-39	2	26-Oct-20	Off-white	No	Client ID: 040333-GRY(SB)-01B	
					Non-Fibers	100
2044325-40	2	26-Oct-20	White	Yes	Client ID: 040333-GRY(SB)-01C	
					Chrysotile	1
					Non-Fibers	99
2044325-41	2	26-Oct-20	Off-white	Yes	Client ID: 040333-GRY(SB)-01D	
					Chrysotile	1
					Non-Fibers	99
2044325-42	2	26-Oct-20	Off-white	No	Client ID: 040333-GRY(SB)-01E	
					Non-Fibers	100
2044325-43	2	26-Oct-20	White	No	Client ID: 040333-GRY(SB)-01F	
					Non-Fibers	100
2044325-44.1	2	26-Oct-20	White	No	Client ID: 040333-GRY(SB)-01G	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 28-Oct-2020

Client PO: **Supreme Court**

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-44.2	2 26-Oct-20	Off-white	Drywall Joint Compound	No	Client ID: 040333-GRY(SB)-01G	
					Non-Fibers	100
2044325-45	2 26-Oct-20	White	Texture Coat	No	Client ID: 040333-GRY(SB)-02A	
					Non-Fibers	100
2044325-46	2 26-Oct-20	White	Texture Coat	No	Client ID: 040333-GRY(SB)-02B	
					Non-Fibers	100
2044325-47	2 26-Oct-20	White	Texture Coat	No	Client ID: 040333-GRY(SB)-02C	
					Non-Fibers	100
2044325-48.1	2 26-Oct-20	Grey	Drywall Joint Compound	No	Client ID: 040333-BLU(B)-01A	
					Non-Fibers	100
2044325-48.2	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-BLU(B)-01A	
					Non-Fibers	100
2044325-49	2 26-Oct-20	Tan	Drywall Joint Compound	Yes	Client ID: 040333-BLU(B)-01B	
					Chrysotile	1
					Non-Fibers	99
2044325-50	2 26-Oct-20	Grey	Drywall Joint Compound	No	Client ID: 040333-BLU(B)-01C	
					Non-Fibers	100
2044325-51	2 26-Oct-20	Grey	Drywall Joint Compound	No	Client ID: 040333-BLU(B)-01D	
					Non-Fibers	100
2044325-52	2 26-Oct-20	Grey	Drywall Joint Compound	No	Client ID: 040333-BLU(B)-01E	
					Non-Fibers	100
2044325-53	2 26-Oct-20	White	Drywall Joint Compound	No	Client ID: 040333-BLUDASH(B)-01A	
					Non-Fibers	100
2044325-54	2 26-Oct-20	Grey	Drywall Joint Compound	No	Client ID: 040333-BLUDASH(B)-01B	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-55	2	26-Oct-20	Grey	No	Client ID: 040333-BLUDASH(B)-01C	
					Non-Fibers	100
2044325-56	2	26-Oct-20	Grey	No	Client ID: 040333-PURPLE(B)-01A	
					Non-Fibers	100
2044325-57	2	26-Oct-20	Grey	No	Client ID: 040333-PURPLE(B)-01B	
					Non-Fibers	100
2044325-58	2	26-Oct-20	Grey	No	Client ID: 040333-PURPLE(B)-01C	
					Non-Fibers	100
2044325-59	2	26-Oct-20	Grey	No	Client ID: 040333-ORG(B)-01A	
					Non-Fibers	100
2044325-60	2	26-Oct-20	Tan	Yes	Client ID: 040333-ORG(B)-01B	
					Chrysotile	1
					Non-Fibers	99
2044325-61	2	26-Oct-20	Grey	No	Client ID: 040333-ORG(B)-01C	
					Non-Fibers	100
2044325-62	2	26-Oct-20	Grey	No	Client ID: 040333-GRY(B)-01A	
					Non-Fibers	100
2044325-63	2	26-Oct-20	Grey	No	Client ID: 040333-GRY(B)-01B	
					Non-Fibers	100
2044325-64	2	26-Oct-20	White	No	Client ID: 040333-GRY(B)-01C	
					Non-Fibers	100
2044325-65	2	26-Oct-20	Grey	No	Client ID: 040333-RED DASH(B)-01A	
					Non-Fibers	100
2044325-66	2	26-Oct-20	Grey	No	Client ID: 040333-RED DASH(B)-01B	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO: **Supreme Court**

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-67	2	26-Oct-20	White	No	Client ID: 040333-RED DASH(B)-01C	
					Non-Fibers	100
2044325-68	2	26-Oct-20	Tan	Yes	Client ID: 040333-GRN(B)-01A	
					Chrysotile	1
					Non-Fibers	99
2044325-69	2	26-Oct-20	White	No	Client ID: 040333-GRN(B)-01B	
					Non-Fibers	100
2044325-70.1	2	26-Oct-20	White	No	Client ID: 040333-GRN(B)-01C	
					Non-Fibers	100
2044325-70.2	2	26-Oct-20	Tan	Yes	Client ID: 040333-GRN(B)-01C	
					Chrysotile	1
					Non-Fibers	99
2044325-71	2	26-Oct-20	White	No	Client ID: 040333-GRN(B)-02A	
					Non-Fibers	100
2044325-72	2	26-Oct-20	White	No	Client ID: 040333-GRN(B)-02B	
					Non-Fibers	100
2044325-73	2	26-Oct-20	White	No	Client ID: 040333-GRN(B)-02C	
					Non-Fibers	100
2044325-74	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-01A	
					Non-Fibers	100
2044325-75	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-01B	
					Non-Fibers	100
2044325-76	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-01C	
					Non-Fibers	100

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO: **Supreme Court**

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-77	2	26-Oct-20	Tan	Yes	Client ID: 040333-PINK(B)-01D	
					Chrysotile	1
					Non-Fibers	99
2044325-78	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-01E	
					Non-Fibers	100
2044325-79	2	26-Oct-20	White	No	Client ID: 040333-PINK(B)-01F	
					Non-Fibers	100
2044325-80	2	26-Oct-20	Tan	Yes	Client ID: 040333-PINK(B)-01G	
					Chrysotile	1
					Non-Fibers	99
2044325-81	2	26-Oct-20	White	No	Client ID: 040333-PINK(B)-02A	
					Non-Fibers	100
2044325-82	2	26-Oct-20	White	No	Client ID: 040333-PINK(B)-02B	
					Non-Fibers	100
2044325-83	2	26-Oct-20	White	No	Client ID: 040333-PINK(B)-02C	
					Non-Fibers	100
2044325-84	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-02A	[Z-01a]
					Non-Fibers	100
2044325-85	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-02B	[Z-01a]
					Non-Fibers	100
2044325-86	2	26-Oct-20	Grey	No	Client ID: 040333-PINK(B)-02C	[Z-01a]
					Non-Fibers	100
2044325-87	2	26-Oct-20	Off-white	No	Client ID: 040333-GRY(G)-01A	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 28-Oct-2020

Client PO: **Supreme Court**

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-88	2	26-Oct-20	Off-white	No	Client ID: 040333-GRY(G)-01B	
					Non-Fibers	100
2044325-89	2	26-Oct-20	Off-white	No	Client ID: 040333-GRY(G)-01C	
					Non-Fibers	100
2044325-90	2	26-Oct-20	White	Yes	Client ID: 040333-PINK(G)-01A	
					Chrysotile	1
					Non-Fibers	99
2044325-91	2	26-Oct-20	White	Yes	Client ID: 040333-PINK(G)-01B	
					Chrysotile	1
					Non-Fibers	99
2044325-92	2	26-Oct-20	White	Yes	Client ID: 040333-PINK(G)-01C	
					Chrysotile	1
					Non-Fibers	99
2044325-93	2	26-Oct-20	Grey		Client ID: 040333-PINK(G)-01A	
					[Z-01] not analyzed	
2044325-94	2	26-Oct-20	Grey	Yes	Client ID: 040333-PINK(G)-01B	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-95	2	26-Oct-20	Grey	Yes	Client ID: 040333-PINK(G)-01C	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-96	2	26-Oct-20	White	Yes	Client ID: 040333-GRN(G)-01A	
					Chrysotile	1
					Non-Fibers	99

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-97	2 26-Oct-20	White	Plaster	Yes	Client ID: 040333-GRN(G)-01B	
					Chrysotile	1
					Non-Fibers	99
2044325-98	2 26-Oct-20	White	Plaster	Yes	Client ID: 040333-GRN(G)-01C	
					Chrysotile	1
					Non-Fibers	99
2044325-99	2 26-Oct-20	Grey	Plaster	Yes	Client ID: 040333-GRN(G)-01A	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-AA	2 26-Oct-20	Grey	Plaster	Yes	Client ID: 040333-GRN(G)-01B	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-AB	2 26-Oct-20	Grey	Plaster	Yes	Client ID: 040333-GRN(G)-01C	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-AC	2 26-Oct-20	White	Plaster	Yes	Client ID: 040333-PURPLE(G)-01A	
					Chrysotile	1
					Non-Fibers	99
2044325-AD	2 26-Oct-20	White	Plaster	Yes	Client ID: 040333-PURPLE(G)-01B	
					Chrysotile	1
					Non-Fibers	99
2044325-AE	2 26-Oct-20	White	Plaster	Yes	Client ID: 040333-PURPLE(G)-01C	
					Chrysotile	1
					Non-Fibers	99

Certificate of Analysis

Client: **DST Consulting Engineers Inc. (Ottawa)**

Client PO: **Supreme Court**

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-AF 2 26-Oct-20		Grey	Plaster	Yes	Client ID: 040333-PURPLE(G)-01A	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-AG 2 26-Oct-20		Grey	Plaster	Yes	Client ID: 040333-PURPLE(G)-01B	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-AH 2 26-Oct-20		Grey	Plaster	Yes	Client ID: 040333-PURPLE(G)-01C	
					Chrysotile	1
					Non-Fibers	98
					Other fibers	1
2044325-AI 2 26-Oct-20		White	Plaster	No	Client ID: 040333-ORG(G)-01A	
					Non-Fibers	100
2044325-AJ 2 26-Oct-20		White	Plaster	No	Client ID: 040333-ORG(G)-01B	
					Non-Fibers	100
2044325-AK 2 26-Oct-20		White	Plaster	No	Client ID: 040333-ORG(G)-01C	
					Non-Fibers	100
2044325-AL 2 26-Oct-20		Grey	Plaster	No	Client ID: 040333-ORG(G)-01A	
					[Z-01c] Non-Fibers	100
2044325-AM 2 26-Oct-20		Grey	Plaster	No	Client ID: 040333-ORG(G)-01B	
					Non-Fibers	100
2044325-AN 2 26-Oct-20		Grey	Plaster	No	Client ID: 040333-ORG(G)-01C	
					[Z-01c] Non-Fibers	100
2044325-AO 2 26-Oct-20		Off-white	Drywall Joint Compound	No	Client ID: 040333-ORG(I)-01A	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-AP 2 26-Oct-20		Off-white	Drywall Joint Compound	No	Client ID: 040333-ORG(I)-01B	
					Non-Fibers	100
2044325-AQ 2 26-Oct-20		Off-white	Drywall Joint Compound	No	Client ID: 040333-ORG(I)-01C	
					Non-Fibers	100
2044325-AR 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-GRY(I)-01A	
					Non-Fibers	100
2044325-AS 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-GRY(I)-01B	
					Non-Fibers	100
2044325-AT 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-GRY(I)-01C	
					Non-Fibers	100
2044325-AU 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-GRY(I)-02A	
					Non-Fibers	100
2044325-AV 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-GRY(I)-02B	
					Non-Fibers	100
2044325-AW 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-GRY(I)-02C	
					Non-Fibers	100
2044325-AX 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-YLW(2)-01A	
					Non-Fibers	100
2044325-AY 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-YLW(2)-01B	
					Non-Fibers	100
2044325-AZ 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-YLW(2)-01C	
					Non-Fibers	100
2044325-BA 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-YLW(2)-02A	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: **DST Consulting Engineers Inc. (Ottawa)**

Order Date: 28-Oct-2020

Client PO: **Supreme Court**

Project Description: **GVOT040333**

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-BB 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-YLW(2)-02B	
					Non-Fibers	100
2044325-BC 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-YLW(2)-02C	
					Non-Fibers	100
2044325-BD.1 1 26-Oct-20		White	Plaster	No	Client ID: 040333-GRN(2)-01A	
					Non-Fibers	100
2044325-BD.2 1 26-Oct-20		Grey	Plaster	No	Client ID: 040333-GRN(2)-01A	
					[Z-01a] Non-Fibers	100
2044325-BE.1 1 26-Oct-20		White	Plaster	No	Client ID: 040333-GRN(2)-01B	
					Non-Fibers	100
2044325-BE.2 1 26-Oct-20		Grey	Plaster	No	Client ID: 040333-GRN(2)-01B	
					[Z-01a] Non-Fibers	100
2044325-BF.1 1 26-Oct-20		White	Plaster	No	Client ID: 040333-GRN(2)-01C	
					Non-Fibers	100
2044325-BF.2 1 26-Oct-20		Grey	Plaster		Client ID: 040333-GRN(2)-01C	
					[Z-01b] not analyzed	
2044325-BG.1 1 26-Oct-20		White	Plaster	No	Client ID: 040333-GRN(2)-01D	
					Non-Fibers	100
2044325-BG.2 1 26-Oct-20		Grey	Plaster		Client ID: 040333-GRN(2)-01D	
					[Z-01b] not analyzed	
2044325-BH.1 1 26-Oct-20		White	Plaster	No	Client ID: 040333-GRN(2)-01E	
					Non-Fibers	100
2044325-BH.2 1 26-Oct-20		Grey	Plaster	No	Client ID: 040333-GRN(2)-01E	
					[Z-01a] Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-BI	1	26-Oct-20	White	No	Client ID: 040333-DPYLW(3)-01A	
					Non-Fibers	100
2044325-BJ	1	26-Oct-20	White	No	Client ID: 040333-DPYLW(3)-01B	
					Non-Fibers	100
2044325-BK	1	26-Oct-20	White	No	Client ID: 040333-DPYLW(3)-01C	
					Non-Fibers	100
2044325-BL	1	26-Oct-20	White	No	Client ID: 040333-PINK(3)-01A	
					Non-Fibers	100
2044325-BM	1	26-Oct-20	White	No	Client ID: 040333-PINK(3)-01B	
					Non-Fibers	100
2044325-BN	1	26-Oct-20	White	No	Client ID: 040333-PINK(3)-01C	
					Non-Fibers	100
2044325-BO	1	26-Oct-20	White	No	Client ID: 040333-BLUEDASH(3)-01A	
					Non-Fibers	100
2044325-BP	1	26-Oct-20	White	No	Client ID: 040333-BLUEDASH(3)-01B	
					Non-Fibers	100
2044325-BQ	1	26-Oct-20	White	No	Client ID: 040333-BLUEDASH(3)-01C	
					Non-Fibers	100
2044325-BR	1	26-Oct-20	White	No	Client ID: 040333-LTBLUE(3)-01A	
					Non-Fibers	100
2044325-BS	1	26-Oct-20	White	No	Client ID: 040333-LTBLUE(3)-01B	
					Non-Fibers	100
2044325-BT	1	26-Oct-20	White	No	Client ID: 040333-LTBLUE(3)-01C	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-BU 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-ORGDASH(3)-01A	
					Non-Fibers	100
2044325-BV 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-ORGDASH(3)-01B	
					Non-Fibers	100
2044325-BW 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-ORGDASH(3)-01C	
					Non-Fibers	100
2044325-BX 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-PURPLE(3)-01A	
					Non-Fibers	100
2044325-BY 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-PURPLE(3)-01B	
					Non-Fibers	100
2044325-BZ 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-DPORG(3)-01A	
					Non-Fibers	100
2044325-CA 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-DPORG(3)-01B	
					Non-Fibers	100
2044325-CB 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-DPORG(3)-01C	
					Non-Fibers	100
2044325-CC 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-DPORG(3)-01D	
					Non-Fibers	100
2044325-CD 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-DPORG(3)-01E	
					Non-Fibers	100
2044325-CE 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRY(3)-01A	
					Non-Fibers	100
2044325-CF 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRY(3)-01B	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-CG 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRY(3)-01C	
					Non-Fibers	100
2044325-CH 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRN(3)-01A	
					Non-Fibers	100
2044325-CI 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRN(3)-01B	
					Non-Fibers	100
2044325-CJ 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRN(3)-01C	
					Non-Fibers	100
2044325-CK 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRN(3)-01D	
					Non-Fibers	100
2044325-CL 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-LTGRN(3)-01E	
					Non-Fibers	100
2044325-CM 1 26-Oct-20		White	Plaster	No	Client ID: 040333-LTGRN(3)-02A	
					Non-Fibers	100
2044325-CN 1 26-Oct-20		White	Plaster	No	Client ID: 040333-LTGRN(3)-02B	
					Non-Fibers	100
2044325-CO 1 26-Oct-20		White	Plaster	No	Client ID: 040333-LTGRN(3)-02C	
					Non-Fibers	100
2044325-CP 1 26-Oct-20		Grey	Plaster	No	Client ID: 040333-LTGRN(3)-02A	
					Non-Fibers	100
2044325-CQ 1 26-Oct-20		Grey	Plaster		Client ID: 040333-LTGRN(3)-02B	[Z-01b]
					not analyzed	
2044325-CR 1 26-Oct-20		Grey	Plaster	No	Client ID: 040333-LTGRN(3)-02C	
					Non-Fibers	100

Certificate of Analysis

Report Date: 11-Nov-2020

Client: DST Consulting Engineers Inc. (Ottawa)

Order Date: 28-Oct-2020

Client PO: Supreme Court

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-CS 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-SKYBLU(3)-01A	
					Non-Fibers	100
2044325-CT 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-SKYBLU(3)-01B	
					Non-Fibers	100
2044325-CU 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-SKYBLU(3)-01C	
					Non-Fibers	100
2044325-CV 1 26-Oct-20		Brown	Fire Proofing	No	Client ID: 040333-EV4-01A	
						[Z-01d]
					Cellulose	25
					MMVF	5
2044325-CW 1 26-Oct-20		Brown	Fire Proofing	No	Client ID: 040333-EV4-01B	
						[Z-01d]
					Cellulose	20
					MMVF	5
2044325-CX 1 26-Oct-20		Brown	Fire Proofing	No	Client ID: 040333-EV4-01C	
						[Z-01d]
					Cellulose	25
					MMVF	5
2044325-CY 1 26-Oct-20		White	Texture Coat	No	Client ID: 040333-EV4-02A	
					Non-Fibers	100
2044325-CZ 1 26-Oct-20		White	Texture Coat	No	Client ID: 040333-EV4-02B	
					Non-Fibers	100
2044325-DA 1 26-Oct-20		White	Texture Coat	No	Client ID: 040333-EV4-02C	
					Non-Fibers	100
2044325-DB 1 26-Oct-20		White	Texture Coat	No	Client ID: 040333-EV4-02D	
					Non-Fibers	100

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: Supreme Court

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: GVOT040333

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2044325-DC 1 26-Oct-20		White	Texture Coat	No	Client ID: 040333-EV4-02E	
					Non-Fibers	100
2044325-DD 1 26-Oct-20		White	Caulking	No	Client ID: 040333-EV4-03A	
					Non-Fibers	100
2044325-DE 1 26-Oct-20		White	Caulking	No	Client ID: 040333-EV4-03B	
					Non-Fibers	100
2044325-DF 1 26-Oct-20		White	Caulking	No	Client ID: 040333-EV4-03C	
					Non-Fibers	100
2044325-DG 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-EV4-04A	
					Non-Fibers	100
2044325-DH 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-EV4-04B	
					Non-Fibers	100
2044325-DI 1 26-Oct-20		White	Drywall Joint Compound	No	Client ID: 040333-EV4-04C	
					Non-Fibers	100

* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	*	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	1 - Mississauga	NVLAP 200863-0		2-Nov-20
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	2 - Ottawa West	NVLAP 200812-0		3-Nov-20

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

Ottawa West Lab: 25 Northside Rd, Unit C Nepean, Ontario K2H 8S1
Mississauga Lab: 15 - 6800 Kitimat Rd Mississauga, Ontario, L5N 5M1

Certificate of Analysis

Client: DST Consulting Engineers Inc. (Ottawa)

Client PO: Supreme Court

Report Date: 11-Nov-2020

Order Date: 28-Oct-2020

Project Description: GVOT040333

Qualifier Notes

Sample Qualifiers :

Z-01: Insufficient sample for analysis

Z-01a: Low sample volume.

Z-01b: No sample.

Z-01c: Sample contains vermiculite

Z-01d: Sample contains vermiculite.

Work Order Revisions | Comments

REVISION 1: Report has been revised to reflect additional layers tested on samples BD, BE and BH.

Appendix D
Select Photographs



Photo 1: Friable (when disturbed) rough parge patch, observed in the sub basement room 0020 Northeast corridor, Location 8, sampled and confirmed to contain 1% Tremolite asbestos (DST 2020 Sample ID 040333-series 66).



Photo 2: Non-Friable brown duct mastic sampled from inside AHU Unit #11 in the sub basement room 0010, Location 16 was confirmed to contain 2% Chrysotile asbestos (DST 2020 Sample ID 040333-series 71).



Photo 3: Non-Friable grey/brown caulking/mastic sampled from inside AHU Unit #1, 2 and 4 in the sub basement room 003 (central mechanical room), Location 10 was confirmed to contain 2% Chrysotile asbestos (DST 2020 Sample ID 040333-series 78).



Photo 4: Friable when disturbed smooth over rough plaster walls and ceilings sampled throughout the building was confirmed to contain 0.5-1% Chrysotile asbestos (DST 2020 Sample ID 040333-series 82, 99, 111, 139, and Historical DST 2016 Sample ID 25657 -series 04, 27, 33).



Photo 5: Friable when disturbed white fibrous insulation associated with radiators throughout the building was confirmed to contain 15% Amosite asbestos (DST 2020 Sample ID 040333-series 92).



Photo 6: Friable when disturbed thin grey parging associated with radiators throughout the building was confirmed to contain 5% Amosite asbestos (DST 2020 Sample ID 040333-series 138).



Photo 7: Non Friable tar caulking associated with duct hatch in the Mezzanine above room 0088 in the sub-basement, Location 263 was confirmed to contain 8% Chrysotile asbestos (DST 2020 Sample ID 040333-series 141).



Photo 8: Friable when disturbed thin grey parging associated with the rooftop hatches above room 342 and 345 (elevator mechanical rooms) was confirmed to contain 1% Chrysotile asbestos (DST 2020 Sample ID 040333-series 142).



Photo 9: Friable when disturbed thin parging/rough coat associated with the Judges elevator shaft walls, Location C was confirmed to contain 1% Chrysotile asbestos (DST 2020, Sample 40333-series 146);



Photo 10: Mortar associated with stone panels in 3rd Floor sitting area was confirmed to contain 1% Chrysotile asbestos (Historical DST 2016 Sample ID 25657-series 02).



Photo 11: Cementitious parging throughout the ceiling of the mechanical area above the 3rd Floor Library (south) contains 1% Chrysotile asbestos (Historical DST 2016 Sample ID 25657-series 16).



Photo 12: Tar, visible in joints of pre-cast cementitious panels that comprise the interior roof structure, 1st Mechanical Floor, contains regulated amounts of asbestos. The cementitious panels themselves were confirmed by laboratory analysis to not contain asbestos ((Historical DST 2016 Sample ID 25657-series 18).

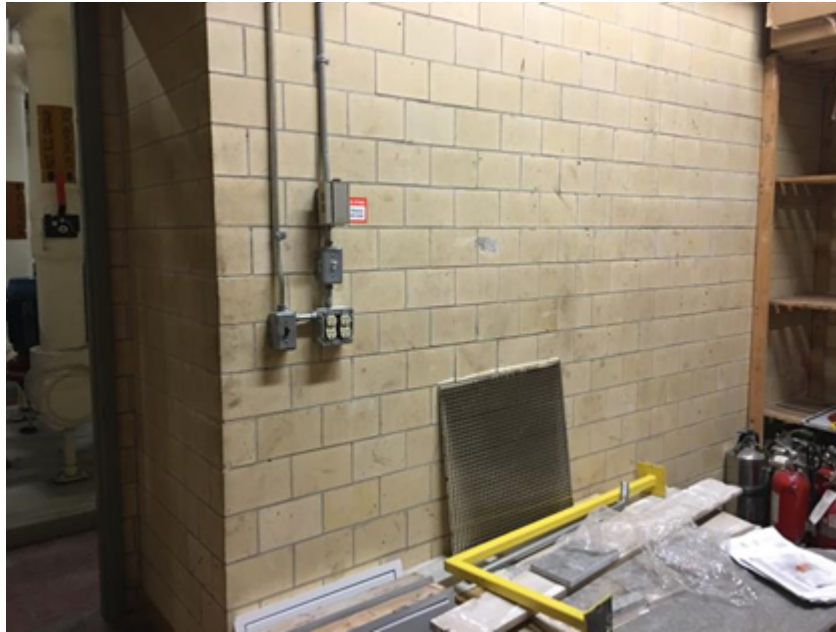


Photo 13: Block wall mortar, typical of small tan block walls throughout the sub-basement, contains 1% Chrysotile asbestos (Historical DST 2016 Sample ID 25657-series 36).



Photo 14: Mastic associated with vinyl floor materials in upper area of sub-basement mechanical room 003/entryway from basement level, contains regulated amounts of asbestos (Historical DST 2016 Sample ID 25657-series 39 & 40).



Photo 15: Vinyl floor tiles and associated mastic in the vault of Room 086, Basement, contains regulated amounts of asbestos(Historical DST 2016 Sample ID 25657-series 48).

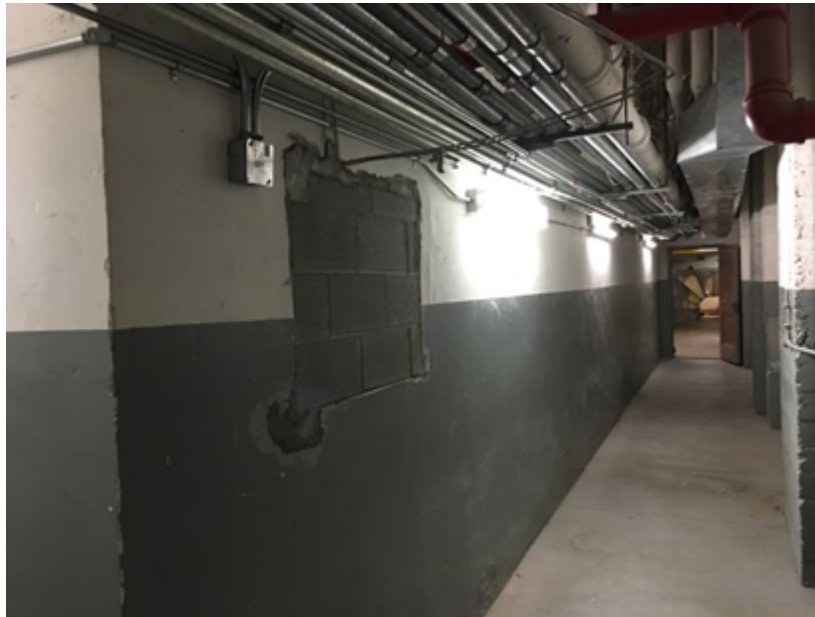


Photo 16: Parging (grey cement compound) comprising the walls of the exhaust and supply plenums behind/surrounding Room 0039, Sub-basement, contains regulated amounts of asbestos (Historical DST 2016 Sample ID 25657-series 49).



Photo 17: Wall parging (grey cement compound) in the catacombs (north) contains regulated amounts of asbestos (Historical DST 2016 Sample ID 25657-series 49).

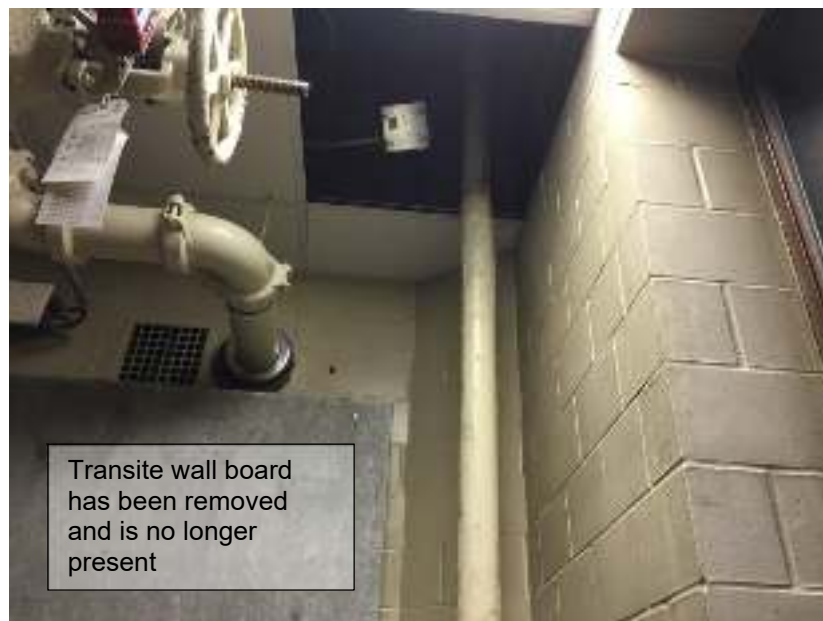


Photo 18: Asbestos-containing pipe insulation (typical janitor's closet off of north corridor pictured). Please note that the photograph is from the historical 2016 report and the transite board pictured has since been removed.



Photo 19: Poor condition asbestos-containing layered cardboard wrap pipe insulation in wall hatch, Ground Floor, Room 155 side washroom.



Photos 20 and 21: Poor condition asbestos containing insulation and debris, inside wall covering, basement, Room 082 (north wall).



Photo 22: Duct insulation, Room 008, Sub-basement, contains regulated amounts of asbestos.



Photo 23: Parging over fiberglass duct insulation contains regulated amounts of asbestos (Room 0039, Sub-basement pictured above).



Photo 24: Tar and cork materials lining the interior roof structure above the 3rd floor was confirmed by laboratory analysis to not contain asbestos.



Photo 25: Spray fireproofing on beams and columns of the 3rd Floor and above was confirmed by laboratory analysis to not contain asbestos.



Photo 26: 3rd Floor fill and textured cementitious coat on column were confirmed by laboratory analysis to not contain asbestos.



Photo 27: Cementitious floor fill beneath cork floors throughout the 1st Mechanical Floor, was confirmed by laboratory analysis to not contain asbestos.



Photo 28: Textured cementitious wall parge in building stairwells was confirmed by laboratory analysis to not contain asbestos.



Photo 29 and 30: Spray fireproofing on bottom of northwest stairwell landing and throughout select areas of Second Mechanical Floor, was confirmed by laboratory analysis to not contain asbestos.



Photo 31: 12"x12" Vinyl floor tiles, black with white dots observed in select elevator lobbies, and stack 1 and 2 library areas was confirmed to not contain asbestos.

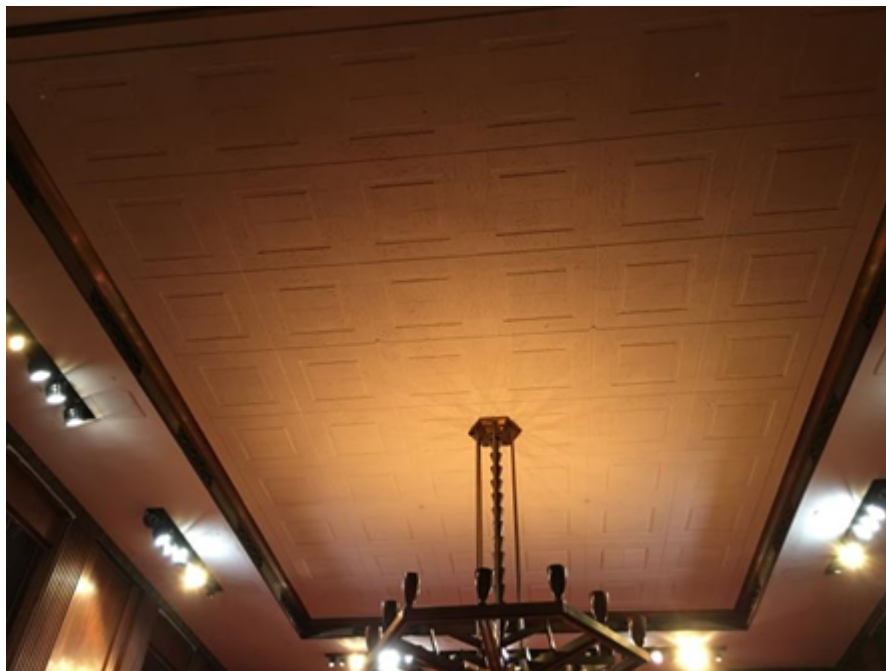


Photo 32: 1'x1' Ceiling tiles throughout the 1st floor, Supreme Court Chamber, installed in a coffered pattern, are suspected to contain asbestos.



Photo 33: 1'x1' Ceiling tiles, typical of East and West Federal Court Chambers, Ground Floor, are suspected to contain asbestos.

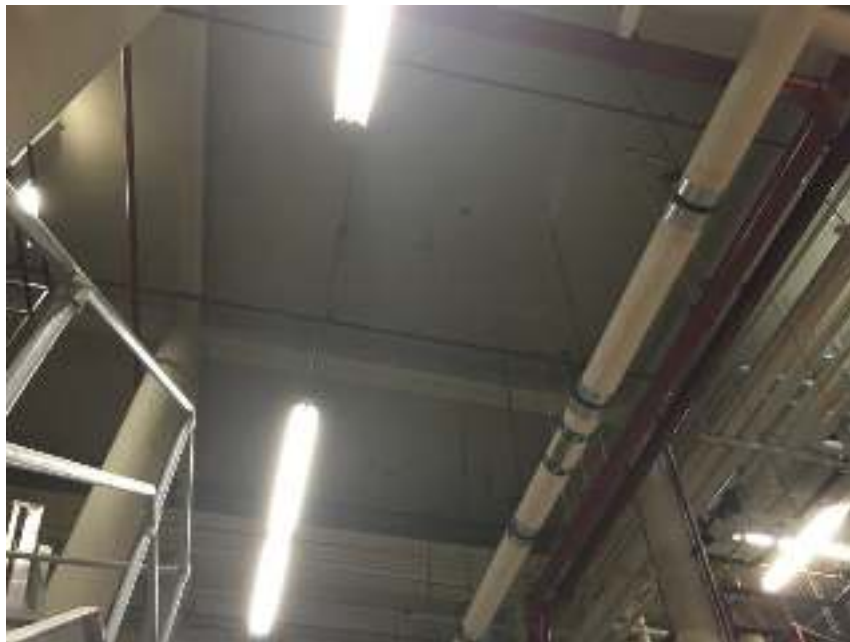


Photo 34: Cementitious parge layer throughout sub-basement mechanical room ceiling (Room 003) was confirmed to not contain asbestos. Visually homogenous cementitious parging layer was observed throughout the ceiling/deck of select areas of the basement and sub-basement and thus not considered asbestos-containing based on available bulk sample data.



Photo 35: Typical office area, 1st Floor. Asbestos-containing plaster materials are suspected to be present and concealed beneath wood paneling.



Photo 36: Window putty associated with second window pane is suspected to contain asbestos.



Photo 37: Suspect Transite board identified in the wash bay of the parking garage is assumed to contain asbestos.



Photo 38: Mortar associated with tan glazed blocks (large and small) located in the basement north wall are confirmed to be non asbestos.



Photo 39: White wall paint sampled from the terracotta walls leading to the catacombs in the sub-basement, Location 1 contains 401 ppm lead (DST 2020 Sample ID 040333-LP01).



Photo 40: Dark grey paint sampled from the metals doors leading to room 008 in the sub-basement, Location 23 contains 4340 ppm lead (DST 2020 Sample ID 040333-LP07).



Photo 41: Light beige paint sampled from the radiator in the basement office 034, Location 38 contains 11100 ppm lead (DST 2020 Sample ID 040333-LP08).



Photo 42: Grey paint sampled from the Judges elevator pit floor and the steel beam within the pit was confirmed to contain 2050 and 3480 ppm lead (DST 2020 Sample ID 040333-LP17 & LP18).



Photo 43: Foamglass observed at a pipe penetration in the central mechanical room 0017 in the sub-basement (near the door to the steam tunnels).

Appendix E
Asbestos-Containing Materials Database

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
Level B02 -Stacks 2											
B02	East shaft behind book shelves	Piping	Pipe Insulation	200	LM	Good	B	Friable	7	Low	
B02	East shaft behind book shelves	Piping	Fittings	100	EA	Good	B	Friable	7	Low	
B02	North shaft behind wall hatches	Piping	Pipe Insulation	60	LM	Good	B	Friable	7	Low	
B02	North shaft behind wall hatches	Piping	Pipe Insulation	6	LM	Poor	B	Friable	3	High	
B02	North shaft behind wall hatches	Piping	Pipe Insulation	2	Exposed ends	Poor	B	Friable	3	High	
B02	North shaft behind wall hatches	Piping	Pipe Insulation	4	SM	Debris	B	Friable	1	High	
Level B01 -Sub-Basement											
B01	Catacombs	Piping	Pipe Insulation	100	LM	Good	B	Friable	7	Low	
B01	Catacombs	Piping	Debris	1	SM	Poor	B	Friable	3	High	Debris observed on ground beneath vent in catacombs 'B', location 5
B01	Catacombs	Piping	Fittings and Hangers	150	EA	Good	B	Friable	7	Low	
B01	Catacombs	Piping	Fittings	5	EA	Poor	B	Friable	3	High	2 fittings and 2 pipe penetrations in poor condition in catacombs 'A', 1 in D2 location 4 and 6
B01	Catacombs	Ductwork	Ductwork Insulation	50	LM	Good	B	Friable	7	Low	
B01	Catacombs	Wall board	Wall Parging - GCC	150	SM	Good	B	Friable	7	Low	
B01	Catacombs	Wall board	Wall Parging - GCC	1	SM	Poor	B	Friable	3	High	North wall
B01	Catacombs	Wall board	Wall Parging - GCC	1	SM	Debris	B	Friable	1	High	
B01	003(mezz)	Piping	Pipe Insulation	110	LM	Good	B	Friable	7	Low	
B01	003(mezz)	Piping	Pipe Insulation	110	LM	Good	C (e)	Friable	7	Low	
B01	003(mezz)	Piping	Fittings	50	EA	Good	B	Friable	7	Low	
B01	003(mezz)	Piping	Fittings	50	EA	Good	C (e)	Friable	7	Low	
B01	003 (mezz)	Piping	Pipe Insulation	4	LM	Poor	C (e)	Friable	4	High	Inaccessible (too high)
	003 - South Mechanical	Piping	Pipe Insulation	60	LM	Good	B	Friable	7	Low	
B01	003 - South Mechanical	Piping	Pipe Insulation	1	LM	Good	D	Friable	7	Low	Located below floor grate in trench adjacent to location 009. Limited visual below floor grates
B01	003 - South Mechanical	Piping	Fittings	4	EA	Good	B	Friable	7	Low	
B01	003 - South Mechanical	Piping	Fittings	1	EA	Fair	B	Friable	5/6	Low	Upper level from basement, location 34
B01	003 - South Mechanical	Piping	Pipe Insulation	2	Exposed Ends	Poor	B	Friable	3	High	Upper level from basement, location 34
B01	003 - South Mechanical	Piping	Pipe Insulation	1	LM	Poor	B	Friable	3	High	Upper level from basement, location 34 eye level at valves
B01	003 - South Mechanical	Floor	Vinyl sheet flooring mastic	145	LM	Good	B	Non-Friable	7	Low	Mastic associated with black and grey vinyl floor at entryway from basement - North mezzanine/catwalk
B01	006	Ceiling	Rough Plaster	20	SM	Good	C (e)	Non-Friable	7	Low	
B01	006	Ceiling	Rough Plaster	< 1	SM	Poor	C (e)	Friable	4	High	
B01	007	Ceiling	Rough Plaster	20	SM	Good	C (e)	Non-Friable	7	Low	
B01	008	Ductwork	Insulation	70	LM	Good	B	Friable	7	Low	Horse-hair type duct insulation with parging
B01	008	Piping	Pipe Insulation	150	LM	Good	B	Friable	7	Low	
B01	008	Piping	Fittings	50	EA	Good	B	Friable	7	Low	
B01	009	Wall	Tan Block Mortar	3	LM	Debris	B	Non - Friable	1	High	Debris along wall
B01	009 (mezz)	Piping	Pipe Insulation	100	LM	Good	B	Friable	7	Low	
B01	009 (mezz)	Piping	Fittings	20	EA	Good	B	Friable	7	Low	

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
B01	Stairwell outside 0011	Piping	Pipe Insulation	30	LM	Good	B	Friable	7	Low	
B01	Stairwell outside 0011	Piping	Fittings	5	EA	Good	B	Friable	7	Low	
B01	Room 0012/0013 Tunnel	Piping	Pipe Insulation	280	LM	Good	B	Friable	7	Low	
B01	Room 0012/0013 Tunnel	Piping	Fittings	75	EA	Good	B	Friable	7	Low	
B01	Room 0012/0013 Tunnel	Piping	Pipe Insulation/Fittings	10	EA	Poor	B	Friable	3	High	Sporadic damage throughout crawlspace area. Limited visual
B01	Room 0012/0013 Tunnel	Piping	Debris	2	SM	Poor	B	Friable	3	High	Debris on ground
B01	0010	Ductwork	Insulation	30	LM	Good	B	Friable	7	Low	
B01	0010	Ductwork	Brown Mastic	4	LM	Good	B	Friable	7	Low	Inside AHU Unit 11
B01	0010	Piping	Pipe Insulation	20	LM	Good	C (e)	Friable	7	Low	
B01	0010	Piping	Fittings	18	EA	Good	C (e)	Friable	7	Low	
B01	0010	Piping	Fittings	1	EA	Poor	C (e)	Friable	4	High	
B01	0011	Piping	Pipe Insulation	20	LM	Good	B	Friable	7	Low	
B01	0011	Piping	Fittings	8	EA	Good	B	Friable	7	Low	Most refit
B01	0011	Piping	Fittings	2	EA	Poor	B	Friable	3	High	
B01	0011	Ductwork	Insulation	20	LM	Good	B	Friable	7	Low	
B01	Stairwell outside 0010	Piping	Pipe Insulation	30	LM	Good	B	Friable	7	Low	
B01	Stairwell outside 0010	Piping	Fittings	8	EA	Good	B	Friable	7	Low	
B01	0017 -Central Mechanical Room	Ductwork	Insulation / Jacketing	300	SM	Good	B	Friable	7	Low	
B01	0017 -Central Mechanical Room	Piping	Pipe Insulation	300	LM	Good	B	Friable	7	Low	
B01	0017 -Central Mechanical Room	Piping	Pipe Insulation	2	LM	Fair	C (e)	Friable	6	Moderate	Zone 7 pipe, AHU No2
B01	0017 -Central Mechanical Room	Piping	Fittings	50	EA	Good	B	Friable	7	Low	
B01	0017 -Central Mechanical Room	Piping	Fittings	2	EA	Poor	C (e)	Friable	4	High	One near SE stairs, the other at wall beside Pump 1
B01	0017 -Central Mechanical Room	Piping	Fittings	4	EA	Fair	C (e)	Friable	6	Moderate	2 Fair on AHU No. 2
B01	0017 -Central Mechanical Room	Ductwork	Caulking/Sealant	24	LM	Good	B	Friable	7	Low	Sampled from AHU 1, 2, 4, assumed present in all units
B01	0020	Piping	Pipe Insulation	10	LM	Good	B	Friable	7	Low	
B01	0020	Piping	Fittings	10	EA	Good	B	Friable	7	Low	
B01	0020	Wall	Parging	2	SM	Good	B	Friable	7	Low	halfway down shaft along east wall, sample 66
B01	0021	Piping	Pipe Insulation	10	LM	Good	B	Friable	7	Low	including shaft down along west wall
B01	0021	Piping	Fittings	7	EA	Good	B	Friable	7	Low	
B01	0021	Piping	Fittings	7	EA	Good	C (e)	Friable	7	Low	
B01	0021	Piping	Fitting	1	EA	Poor	C (e)	Friable	4	High	Ladder needed
B01	0039	Plaster	Rough Plaster	70	SM	Good	B	Friable	7	Low	
B01	0039	Plaster	Rough Plaster	14	LM	Fair	B	Friable	5/6	Low	Cracks in ceiling
B01	0039	Piping	Pipe Insulation	4	LM	Good	D	Friable	7	Low	
B01	0039	Ductwork	Insulation / Jacketing	20	SM	Good	B	Friable	7	Low	
B01	0039 - Pit	Piping	Pipe Insulation	1	LM	Good	B	Friable	7	Low	
B01	0039 - Pit	Piping	Fittings	5	EA	Good	B	Friable	7	Low	
B01	0039A - Supply and Exhaust plenum	Wall board	Parging	250	SM	Good	B	Friable	7	Low	

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
B01	0039A - Supply and Exhaust plenum	Wall board	Parging	< 1	SM	Poor	B	Friable	3	High	
B01	0039A - Supply and Exhaust plenum	Wall board	Parging debris	< 1	SM	Debris	B	Friable	1	High	
B01	0039A - Supply and Exhaust plenum	Piping	Pipe Insulation	200	LM	Good	C (e)	Friable	7	Low	
B01	0039A - Supply and Exhaust plenum	Piping	Fittings	80	EA	Good	C (e)	Friable	7	Low	
B01	0047	Piping	Pipe Insulation	300	LM	Good	B	Friable	7	Low	
B01	0047	Piping	Fittings	70	EA	Good	B	Friable	7	Low	
B01	0047	Piping	Fittings	2	EA	Poor	B	Friable	3	High	
B01	0048	Piping	Pipe Insulation	300	LM	Good	B	Friable	7	Low	
B01	0048	Piping	Pipe Insulation	1	Exposed End	Poor	B	Friable	3	High	
B01	0048	Piping	Fittings	70	EA	Good	B	Friable	7	Low	
B01	0049 - Pipe Shaft	Piping	Pipe Insulation	1	SM	Debris	B	Friable	1	High	pipes abated, debris left over on floor
B01	0050 - Pipe Shaft	Piping	Pipe Insulation	5	LM	Good	B	Friable	7	Low	Pipes left at deck level, end legged, rest abated
B01	0052/0054/0056	Ceiling	Plaster	60	SM	Fair	C (e)	Friable	6	Moderate	
B01	0054	Piping	Pipe Insulation	5	LM	Good	B	Friable	7	Low	
B01	Hallway outside 0088	Piping	Pipe Insulation	300	LM	Good	B	Friable	7	Low	
B01	Hallway outside 0088	Piping	Fittings	70	EA	Good	B	Friable	7	Low	
B01	Hallway outside 0088	Piping	Fittings	5	EA	Poor	C (c)	Friable	4	High	
B01	Hallway outside 0088	Piping	Pipe Insulation	3	SM	Debris	C (c)	Friable	2	High	Debris above ceiling tile near interior wall (marked with green tape)
B01	Hallway outside 0088	Piping	Tar on fittings	throughout hallway	Suspect ACM	Good	C (c)	Friable	7	Low	Tar on fittings observed on pipe fittings above ceiling tiles, too high to sample, suspect ACM
B01	North Hallway	Ceiling	Plaster	4	SM	Debris	C (c)	Friable	2	High	above ceiling tiles
B01	North Hallway	Piping	Pipe Insulation	22	LM	Good	C (c)	Friable	7	Low	
B01	North Hallway	Piping	Pipe Insulation	1	Exposed End	Poor	B	Friable	3	High	
B01	0079	Piping	Pipe Insulation	2	LM	Good	B	Friable	7	Low	
B01	0079	Piping	Fittings	11	EA	Good	B	Friable	7	Low	
B01	0079	Rough Plaster	Ceiling	15	SM	Good	B	Friable	7	Low	
B01	0088 Mezzanine	Piping	Straight Run and Fittings	150	LM	Good	B	Friable	7	Low	ladder to mezzanine in corner of Room 0088
B01	0088 Mezzanine	Ductwork	Black Tar on Hatch	4	LM	Good	B	Non-Friable	7	Low	
B01	0089	Piping	Pipe Insulation	75	LM	Good	D	Friable	7	Low	In wall hatches to the north
B01	0089	Piping	Pipe Insulation	5	LM	Poor	B	Friable	3	High	In wall hatches to the north
B01	0090	Piping	Pipe Insulation	5	LM	Good	C (c)	Friable	7	Low	Suspect ACM piping above ceiling tiles. Not accessible for inspection
B01	0099	Piping	Pipe Insulation	20	LM	Good	C (c)	Friable	7	Low	
B01	0099	Piping	Pipe Insulation	4	Exposed ends	Poor	C (c)	Friable	4	High	
B01	0092b	Piping	Pipe Insulation	20	LM	Good	D	Friable	7	Low	Assumed ACM piping present, not accessible to confirm
B01	0095	Piping	Pipe Insulation	5	LM	Good	D	Friable	7	Low	above solid ceiling of Parging Garage Commissionaire desk
B01	Throughout	Block Wall	Mortar	Throughout	Throughout	Good	B/D	Non-Friable	7	Low	Beige/tan block wall mortar identified throughout the sub-basement contains asbestos. This blockwall mortar may be present and concealed in other areas of the sub-basement
B01	Throughout	Wall	Plaster	200	SM	Good	A	Friable	7	Low	
B01	Stairwell STSBA2	Wall	Plaster	2	SM	Poor	A	Friable	3	High	Plaster within DST Locaiton 25
B01	Throughout	Walls	Drywall	200	SM	Good	All	Non-Friable	7	Low	positive hits within the grey construction areas within the sub-basement. All drywall in this colour coated area should be assumed ACM unless further delineated on a case by case basis
B01	Throughout	Piping	Pipe Insulation and fittings	Throughout	Throughout	Unknown	D	Friable	7	Low	Concealed asbestos piping is assumed present in inaccessible wall and ceiling cavities.
Level B - Basement											

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
B	South Corridor	Ceiling	Texture/Stipple	75	SM	Good	C (e)	Friable	7	Low	
B	South Corridor	Ceiling	Plaster	3	SM	Poor	C (c)	Friable	4	High	
B	South Corridor	Ceiling	Plaster	2	SM	Debris	C (c)	Friable	2	High	
B	South Corridor	Wall and Ceiling	Pipe Insulation and Fittings	60	LM	Good	D	Friable	7	Low	Above stipple ceiling. Visible via hatches
B	014	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	014	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	014	Wall	Tan Block Mortar	3	SM	Debris	C (c)	Non-Friable	2	High	Mortar debris above stipple where duct goes through into corridor (accessible using ceiling hatch)
B	015	Ceiling	Texture/Stipple	30	SM	Good	C (e)	Friable	7	Low	
B	015	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	015	Wall	Tan Block Mortar	2	SM	Debris	C (c)	Non-Friable	2	High	Mortar debris above stipple where duct goes through into corridor (accessible using ceiling hatch)
B	016	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	016	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	016	Wall	Tan Block Mortar	1.5	SM	Debris	C (c)	Non-Friable	2	High	Mortar debris above stipple where duct goes through into corridor (accessible using ceiling hatch)
B	018	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	018	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	018	Piping	Pipe Insulation and fittings	6	LM	Good	D	Friable	7	Low	
B	020	Piping	Pipe Insulation and fittings	2	LM	Good	C (c)	Friable	7	Low	
B	021	Piping	Pipe Insulation and fittings	40	LM	Good	C (c)	Friable	7	Low	
B	Corridor Outside 021	Piping	Pipe Insulation and Fittings	2	LM	Good	D	Friable	7	Low	At north wall, limited visual
B	027	Piping	Pipe Insulation	2	LM	Good	B	Friable	7	Low	Pipe insulation suspected in wall hatch, in behind stairwell
B	027	Wall	Tan Block Mortar	40	SM	Good	B	Non-Friable	7	Low	
B	028	Piping	Pipe Insulation	2	LM	Good	B	Friable	7	Low	Pipe insulation suspected in wall hatch, in behind stairwell
B	028	Wall	Tan Block Mortar	40	SM	Good	B	Non-Friable	7	Low	
B	028	Wall	Tan Block Mortar	3	SM	Debris	B	Non-Friable	1	High	Pipe shaft in janitor closet wall hatch
B	031	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	031	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	Consealed behind drywall
B	031	Wall	Tan Block Mortar	2	SM	Debris	C (c)	Non-Friable	2	High	Mortar debris above stipple where duct goes through into corridor (accessible using ceiling hatch)
B	032	Ceiling	Texture/Stipple	40	SM	Good	C (e)	Friable	7	Low	
B	032	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	032	Wall	Tan Block Mortar	2	SM	Debris	C (c)	Non-Friable	2	High	Mortar debris above stipple where duct goes through into corridor (accessible using ceiling hatch)
B	033	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	033	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	034	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	034	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	035	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	035	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	035	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	No debris noted
B	036	Ceiling	Texture/Stipple	20	SM	Good	C (e)	Friable	7	Low	
B	036	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	037	Piping	Pipe Insulation	18	LM	Good	D	Friable	7	Low	Limited visual to above
B	037	Ceiling	Texture/Stipple	17	SM	Good	C (e)	Friable	7	Low	
B	037	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	Suspected, hatch would not open, present in connected washroom
B	038	Ceiling	Texture/Stipple	20	SM	Good	C (e)	Friable	7	Low	
B	038	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
B	038	Piping	Pipe Insulation	5	LM	Good	D	Friable	7	Low	Suspected to be present above, limited visual
B	040	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	040	Ceiling	Plaster	4	SM	Poor	C (c)	Friable	4	High	
B	040	Ceiling	Plaster	1	SM	Debris	C (c)	Friable	2	High	
B	042	Ceiling	Texture/Stipple	15	SM	Good	C (e)	Friable	7	Low	
B	042	Piping	Pipe Insulation	15	LM	Good	D	Friable	7	Low	
B	043	Ceiling	Texture/Stipple	20	SM	Good	C (e)	Friable	7	Low	
B	043	Wall	Tan Block Mortar	70	SM	Good	D	Non-Friable	7	Low	
B	043	Wall	Tan Block Mortar	1	SM	Debris	C (c)	Non-Friable	2	High	Mortar debris above stipple where duct goes through into corridor (accessible using ceiling hatch)
B	045	Ceiling	Texture/Stipple	10	SM	Good	C (e)	Friable	7	Low	
B	045	Ceiling	Plaster	2	SM	Poor	C (c)	Friable	4	High	
B	045	Ceiling	Plaster	1	SM	Debris	C (c)	Friable	2	High	
B	040/046	Ceiling	Texture/Stipple	90	SM	Good	C (e)	Friable	7	Low	Corridor
B	049 -Pipe Shaft	Piping	Pipe Insulation/Fittings	10	LM	Good	B	Friable	7	Low	Embedded in wall, encapsulated, rest abated, 9LM outside hatch
B	049 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
B	050 -Pipe Shaft	Piping	Pipe Insulation/Fittings	60	LM	Good	B	Friable	7	Low	9LM outside hatch, <1SM in inside hatch
B	050 -Pipe Shaft	Ceiling	Rough Plaster	9	SM	Good	B	Friable	7	Low	Assumed pipes consealed within wall as observed on 2nd floor
B	050 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
B	Kitchen off 050	Plaster	Rough Plaster	30	SM	Good	C (c)	Friable	7	Low	
B	Kitchen off 050	Plaster	Rough Plaster	2	SM	Poor	C (c)	Friable	4	High	
B	062 - East Entrance	Piping	Pipe Insulation/Fittings	60	LM	Good	C (c)	Friable	7	Low	
B	059,061,063,065,067	Piping	Pipe Insulation/Fittings	Suspect	Suspect	Good	D	Friable	7	Low	Pipe insulation may be present in office ceiling bulkhead.Could not confirm
B	069	Piping	Pipe Insulation/Fittings	2	LM	Good	C (c)	Friable	7	Low	
B	067 -Corridor	Piping	Pipe Insulation/Fittings	5	LM	Good	C (c)	Friable	7	Low	
B	071	Piping	Pipe Insulation/Fittings	7	LM	Good	C (c)	Friable	7	Low	
B	076	Piping	Pipe Insulation/Fittings	10	LM	Good	C (c)	Friable	7	Low	
B	077	Piping	Pipe Insulation/Fittings	10	LM	Good	C (c)	Friable	7	Low	
B	078 - Telephone	Floor	Vinyl floor tiles	2	SM	Good	A	Non-Friable	7	Low	
B	078 - Office	Piping	Pipe Insulation/Fittings	5	LM	Good	C (c)	Friable	7	Low	
B	080- Office	Wall	Tan Block Mortar	20	SM	Good	D	Non-Friable	7	Low	Perimeter wall, underneath drywall
B	080- Office	Piping	Pipe Insulation/Fittings	5	LM	Good	C (c)	Friable	7	Low	
B	080- Office	Wall	Tan Block Mortar	20	SM	Good	D	Non-Friable	7	Low	Perimeter wall, underneath drywall
B	082	Piping	Pipe Insulation/Fittings	5	LM	Good	C (c)	Friable	7	Low	
B	084	Piping	Pipe Insulation/Fittings	15	LM	Good	C (c)	Friable	7	Low	
B	084	Piping	Pipe Insulation/Fittings	6	LM	Poor	C (c)	Friable	4	High	
B	084	Wall	Tan Block Mortar	20	SM	Good	D	Non-Friable	7	Low	Perimeter wall, underneath drywall
B	085	Piping	Pipe Insulation/Fittings	7	LM	Good	C (c)	Friable	7	Low	
B	Corridor outside 076	Piping	Pipe Insulation/Fittings	2	LM	Good	C (c)	Friable	7	Low	
B	086 - Vault	Floor	Vinyl floor tiles	8	LM	Good	A	Non-Friable	7	Low	
B	Corridor outside 090	Piping	Pipe Insulation/Fittings	12	LM	Good	C (c)	Friable	7	Low	
B	090 - Janitor Closet	Piping	Pipe Insulation/Fittings	100	LM	Good	B	Friable	7	Low	Room and wall shaft
B	092	Piping	Pipe Insulation/Fittings	15	LM	Good	B/D	Friable	7	Low	at exterior wall, visible via wall panel
B	092	Piping	Pipe Insulation /fittings	0.25	LM	Poor	B	Friable	3	High	at exterior wall, visible via wall panel
B	092	Piping	Pipe Insulation debris	0.25	SM	Poor	B	Friable	3	High	at exterior wall, visible via wall panel
B	094	Piping	Pipe Insulation/Fittings	2	EA	Suspect	C (c)	Friable	7	Low	2 suspect GCC fittings, could not reach to confirm
B	NE Hidden Stairwell	Walls/Deck	Plaster	2	SM	Poor	B	Friable	3	High	
B	NE Hidden Stairwell	Walls/Deck	Plaster	1	SM	Debris	B	Friable	1	High	
B	North Corridor Outside Loading Dock	Piping	Pipe Insulation/Fittings	5	LM	Good	B	Friable	7	Low	at exterior wall, visible via wall panel

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
B	North Corridor Outside Loading Dock	Piping	Pipe Insulation /fittings	1	LM	Poor	B	Friable	3	High	exposed end of insulation in wall hatch
B	North Corridor Outside Loading Dock	Piping	Pipe Insulation /fittings	1	SM	Debris	B	Friable	1	High	Insulation debris in wall hatch
B	095 - Judge's Garage	Piping	Pipe Insulation /fittings	1	EA	Good	C (e)	Friable	7	Low	
B	Former elevator lobby - 042	Floor	Vinyl floor tiles	10	SM	Good	D	Non-Friable	7	Low	concealed under new VSF flooring
B	Former elevator lobby - 042	Ceiling	Texture/Stipple	10	SM	Good	C (e)	Friable	7	Low	
B	West Corridor	Piping	Pipe Insulation/Fittings	30	LM	Good	C (c)	Friable	7	Low	
B	South West Corridor	Wall	Tan Block Mortar	1	SM	Debris	C (c)	Non-Friable	2	High	Across from elevator
B	South West Corridor	Piping	Pipe Insulation/Fittings	10	LM	Good	C (c)	Friable	7	Low	Near radiator
B	Throughout	Wall, Ceiling, Column	Plaster	6000	SM	Good	All	Friable	7	Low	All plaster materials are assumed to contain asbestos. Concealed asbestos-containing plaster may be present above or behind current building materials (e.g. drywall, etc.). Exact location and quantity unknown due to concealed conditions throughout
B	Throughout	Wall, Ceiling	Drywall	2000	SM	Good	All	Non-Friable	7	Low	Positive hits from basement in office 015 and 018 (blue construction area on floorplan), as well as Room 021 (Orange), room 098K (Green), and basement corridor south of STB3, and room 070 (Pink). All drywall materials within the basement are assumed to contain asbestos unless further delineation proves otherwise due to the high number of positive hits throughout this floor.
B	Throughout	Piping	Pipe Insulation and fittings	Throughout	Throughout	Unknown	D	Friable	7	Low	Concealed asbestos piping is assumed present in inaccessible wall and ceiling cavities and associated with radiators. Assumed to be associated with plumbing in all washrooms as well.
Parking Level											
B01	P-1 - East	Piping	Pipe Insulation/Fittings	250	LM	Good	C (e)	Friable	7	Low	
B01	P-1 - West	Piping	Pipe Insulation/Fittings	250	LM	Good	C (e)	Friable	7	Low	
B01	Generator Room	Piping	Pipe Insulation/Fittings	8	LM	Good	B	Friable	7	Low	
B01	Northeast Storage Room1	Piping	Pipe Insulation/Fittings	5	LM	Good	B	Friable	7	Low	
B01	Wash Bay	Wall	Transite Board	72	SM	Good	A Suspect		7	Low	
Level G – Ground Floor											
G	2-janitors closet (south)	Ceiling	Plaster	1	SM	Poor	C (e)	Friable	4	High	
G	3-janitors closet (south)	Ceiling	Plaster	2	SM	Poor	C (e)	Friable	4	High	
G	3- Mezzanine	Wall	Plaster	40	SM	Fair	B	Friable	5/6	Low	
G	9	Ceiling	Pipe Insulation/Fittings	5	LM	Good	D	Friable	7	Low	Assumed to be associated with washroom
G	10	Ceiling	Plaster	2	SM	Fair	C (e)	Friable	6	Moderate	
G	15-electrical	Ceiling	Plaster	1	SM	Poor	C (e)	Friable	4	High	
G	17	Ceiling	Plaster	1	SM	Poor	C (c)	Friable	4	High	
G	20	Piping	Pipe Insulation/Fittings	25	LM	Good	C (c)	Friable	7	Low	Washroom, above ceiling hatch, behind south wall
G	20	Piping	Pipe Insulation	2	exposed ends	Poor	C (c)	Friable	4	High	Wall hatch behind fridge
G	21	Piping	Pipe Insulation/Fittings	25	LM	Good	C (c)	Friable	7	Low	Wall and ceiling hatches
G	32	Wall	Plaster	2	SM	Poor	B	Friable	3	High	Storage off Women's washroom (under stairs)
G	33 - Men's Washroom	Piping	Pipe Insulation/Fittings	20	LM	Good	D	Friable	7	Low	wall hatch
G	34 -Women's Washroom	Piping	Pipe Insulation/Fittings (suspect)	20	LM	Good	D	Friable	7	Low	Assumed similar to Room 33. No access to confirm concealed piping in walls
G	36-39	Ceiling	Plaster	10	SM	Fair	C (c)	Friable	7	Low	Exposed edges of plaster where partial ceiling has been removed.

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
G	Lobby Outside 33	Ceiling	Ceiling Tile Mastic	13	SM	Good	D	Non-Friable	Suspect	Low	Suspect mastic beneath 1'x1' Ceiling Tiles
G	49 -Pipe Shaft	Piping	Pipe Insulation/Fittings	15	LM	Good	C (c)	Friable	7	Low	
G	49 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
G	50 -Pipe Shaft	Piping	Pipe Insulation/Fittings	60	LM	Good	C (c)	Friable	7	Low	Assumed pipes consealed within wall as observed on 2nd floor
G	50 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
G	55/57	Ceiling	Ceiling Tile Mastic	2	SM	Good	D	Non-Friable	Suspect	Low	Suspect
G	57	Piping	Pipe Insulation/Fittings	5	LM	Fair	D	Friable	7	Low	behind duct in corner of room - ceiling hatch
G	57 - Washroom	Piping	Pipe Insulation/Fittings	25	LM	Good	C (c)	Friable	7	Low	Limited access to above. Assumed present.
G	57 - Washroom	Piping	Pipe Insulation/Fittings	3	Exposed Ends	Poor	B	Friable	3	High	In wall hatch
G	57 - Washroom	Piping	Pipe Insulation/Fittings	3	SM	Poor	B	Friable	3	High	In wall hatch
G	57 - Washroom	Piping	Pipe Insulation/Fittings	4	EA	Poor	B	Friable	3	High	In wall hatch
G	60 - Washroom	Piping	Pipe Insulation/Fittings	3	LM	Debris	B	Friable	1	High	Within pipe shaft behind marble, most marble hatches could not be removed, assume insulation in every washroom
G	61	Piping	Pipe Insulation/Fittings	10	LM	Good	C (c)	Friable	7	Low	
G	62	Ceiling	Plaster	36	SM	Fair	C (c)	Friable	7	Low	Exposed edges of plaster where partial ceiling has been removed.Limited visual
G	64-68	Ceiling	Plaster	50	SM	Fair	C (c)	Friable	7	Low	Exposed edges of plaster where partial ceiling has been removed.Limited visual
G	62	Ceiling	Plaster	2	SM	Poor	C (c)	Friable	4	High	Poor deck
G	64	Ceiling	Plaster	2	SM	Debris	C (c)	Friable	2	High	Poor deck
G	71	Piping	Pipe Insulation/Fittings	80	LM	Good	C (c)	Friable	7	Low	2 in hall one in room running length of hall
G	71	Piping	Pipe Insulation/Fittings	2	Exposed Ends	Poor	C (c)	Friable	4	High	Via ceiling hatch
G	71	Piping	Pipe Insulation/Fittings	2	LM	Poor	C (c)	Friable	4	High	Via ceiling hatch
G	74-76	Ceiling	Plaster	50	SM	Fair	C (c)	Friable	7	Low	Exposed edges of plaster where partial ceiling has been removed.Limited visual
G	74	Ceiling	Plaster	4	SM	Poor	C (c)	Friable	4	High	Poor deck
G	74	Ceiling	Plaster	4	SM	Debris	C (c)	Friable	2	High	Poor deck
G	78/80	Ceiling	Plaster	50	SM	Fair	C (c)	Friable	7	Low	Exposed edges of plaster where partial ceiling has been removed.Limited visual
G	83-washroom	Ceiling	Plaster	1	SM	Fair	C (e)	Friable	6	Moderate	
G	87 - Kitchen	Ceiling	Plaster	2	SM	Poor	C (c)	Friable	4	High	Poor plaster on beam
G	94	Piping	Pipe Insulation/Fittings	40	LM	Good	C (c)	Friable	7	Low	Pipe insulation may also be present in Room 96. Limited access to confirm above
G	95	Ceiling	Ceiling Tile Mastic	100	SM	Good	D	Non-Friable	Suspect	Low	
G	Corridor	Piping	Pipe Insulation/Fittings	240	LM	Assumed	C (c)	Friable	7	Low	Observed inside and outside room 83 (Assume 40LM x 2 each wing)
G	West Federal Court	Ceiling	1'x1' Ceiling Tiles and mastic	100	SM	Good	C (e)	Suspect	7	Low	
G	East Federal Court	Ceiling	1'x1' Ceiling Tiles and mastic	100	SM	Good	C (e)	Suspect	7	Low	
G	Throughout	Wall, Ceiling, Column	Plaster	7000	SM	Good	All	Friable	7	Low	All plaster materials are assumed to contain asbestos. Concealed asbestos-containing plaster may be present above or behind current building materials (e.g. drywall, etc.). Exact location and quantity unknown due to concealed conditions throughout
G	Throughout	Piping	Pipe Insulation and fittings	Throughout	Throughout	Unknown	D	Friable	7	Low	Concealed asbestos piping is assumed present in inaccessible wall and ceiling cavities and associated with radiators. Assumed to be associated with plumbing in all washrooms as well.
Level 1 -1st Floor											
1	106-SE Stairwell	Walls	Plaster	2	SM	Poor	A	Friable	3	High	Southeast stairwell
1	122 -washroom	Piping	Pipe Insulation/Fittings	35	LM	Good	C (c)	Friable	7	Low	above ceiling hatch
1	122 -washroom	Piping	Pipe Insulation/Fittings	1	LM	Poor	C (c)	Friable	4	High	4 exposed ends, 3 poor fittings, 0.5 metres damaged
1	123 -washroom	Piping	Pipe Insulation/Fittings	12	LM	Good	D/B	Friable	7	Low	visible above ceiling hatch + in wall hatch
1	123 -washroom	Piping	Pipe Insulation/Fittings	4	exposed ends	Poor	B	Friable	3	Low	
1	123 -washroom	Piping	Pipe Insulation/Fittings	1	SM	Debris	B	Friable	1	Low	
1	125	Piping	Pipe Insulation/Fittings	6	LM	Good	C (c)	Friable	7	Low	

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
1	136	Piping	Pipe Insulation/Fittings	25	LM	Good	C (c)	Friable	7	Low	
1	149 -Pipe Shaft	Piping	Pipe Insulation/Fittings	15	LM	Good	C (c)	Friable	7	Low	Additional pipe insulation suspected present behind solid wall materials
1	149 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
1	150 -Pipe Shaft	Piping	Pipe Insulation/Fittings	60	LM	Good	C (c)	Friable	7	Low	Assumed pipes consealed within wall as observed on 2nd floor
1	150 -Pipe Shaft	Piping	Pipe Insulation/Fittings	1	LM	Poor	C (c)	Friable	4	High	1 poor fitting
1	150 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
1	155 - Washroom	Piping	Pipe Insulation/Fittings	15	LM	Good	C (c)	Friable	7	Low	
1	155 - Washroom	Piping	Pipe Insulation/Fittings	2	LM	Poor	B	Friable	3	High	hatch behind toilet
1	155	Ceiling	Plaster	1	SM	Poor	C (c)	Friable	4	High	
1	156 - Washroom	Piping	Pipe Insulation/Fittings	20	LM	Good	B	Friable	7	Low	
1	156 - Washroom	Piping	Pipe Insulation/Fittings	2	LM	Poor	B	Friable	3	High	Wall hatch behind toilet
1	160 -Kitchen	Ceiling	Plaster	1	SM	Poor	C (c)	Friable	4	High	
1	160 -Kitchen	Ceiling	Plaster	1	SM	Debris	C (c)	Friable	2	High	
1	169	Piping	Pipe Insulation/Fittings	30	LM	Good	D	Friable	7	Low	
1	169	Piping	Pipe Insulation/Fittings	2	Exposed Ends	Poor	D	Friable	7	Low	
1	166	Piping	Pipe Insulation/Fittings	10	LM	Good	D	Friable	7	Low	visble above ceiling hatch
1	166	Piping	Pipe Insulation/Fittings	2	Exposed Ends	Poor	D	Friable	7	Low	
1	166	Piping	Pipe Insulation/Fittings	2	LM	Poor	D	Friable	7	Low	
1	172/176	Piping	Pipe Insulation/Fittings	5	LM	Good	D	Friable	7	Low	Suspected to be present. No access to ceiling hatches in washrooms
1	186C	Piping	Pipe Insulation/Fittings	5	LM	Good	D	Friable	7	Low	
1	186G	Piping	Pipe Insulation/Fittings	20	LM	Good	C (c)	Friable	7	Low	3LM visible, runs across above Drop Ceiling
1	190	Ceiling	Ceiling Tile Mastic	13	SM	Good	D	Non-Friable	Suspect	Low	Suspect mastic beneath 1'x1' Ceiling Tiles
1	195	Ceiling	Ceiling Tile Mastic	13	SM	Good	D	Suspect	7	Low	
1	195	Column	Parging	1	SM	Good	D	Suspect	7	Low	Parging patch observed behind brass grate, assumed to be ACM, could not remove grate to sample (heritage component) This material may be present in other locations.
1	194 -Washroom	Piping	Pipe Insulation/Fittings	1	LM	Poor	B	Friable	3	High	Behind wall hatch under sink
1	194 -Washroom	Piping	Pipe Insulation/Fittings	1	SM	Debris	B	Friable	1	High	Behind wall hatch under sink
1	Supreme Court Chamber	Ceiling	1'x1' Ceiling Tiles and mastic	205	SM	Good	C (e)	Suspect	7	Low	
1	Supreme Court Chamber	Radiators	Fibrous board inside radiator assemblies	1	SM	Debris	A	Friable	1	High	Fibre board and parging debris underneath radiator at floor level
1	Throughout	Wall, Ceiling, Column	Plaster	7000	SM	Good	All	Friable	7	Low	All plaster materials are assumed to contain asbestos. Concealed asbestos-containing plaster may be present above or behind current building materials (e.g. drywall, etc.). Exact location and quantity unknown due to concealed conditions throughout
1	Throughout	Piping	Pipe Insulation and fittings	Throughout	Throughout	Unknown	D	Friable	7	Low	Concealed asbestos piping is assumed present in inaccessible wall and ceiling cavities and associated with radiators. Assumed to be associated with plumbing in all washrooms as well.
Level 2-- 2nd Floor											
2	250 - Pipe Shaft	Piping	Pipe Insulation/Fittings	60	LM	Good	B	Friable	7	Low	Assume this quantity on each floor for this shaft (concealed in wall)
2	250 - Pipe Shaft	Piping	Pipe Insulation/Fittings	2	Exposed Ends	Poor	B	Friable	3	High	
2	250 - Pipe Shaft	Piping	Pipe Insulation/Fittings	1	LM	Poor	B	Friable	3	High	
2	250 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
2	249	Piping	Pipe Insulation/Fittings	6	LM	Good	B	Friable	7	Low	Most refit
2	249	Piping	Pipe Insulation/Fittings	1	EA	Poor	B	Friable	3	High	One Poor Fitting
2	249 -Pipe Shaft	Wall	Tan Block Mortar	36	SM	Good	B	Non-Friable	7	Low	
2	223	Piping	Pipe Insulation/Fittings	10	LM	Good	C (c)	Friable	7	Low	
2	223	Piping	Pipe Insulation/Fittings	1	EA	Poor	C (c)	Friable	4	High	
2	223	Piping	Pipe Insulation/Fittings	1	Exposed end	Poor	C (c)	Friable	4	High	
2	229	Piping	Pipe Insulation/Fittings	2	LM	Good	C (c)	Friable	7	Low	2LM visible, assume more is present
2	229	Piping	Pipe Insulation/Fittings	2	Exposed end	Poor	C (c)	Friable	4	High	
2	256	Wall	Plaster	<1	SM	Poor	A	Friable	3	High	

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
2	252A-Janitors Closet	Wall	Plaster	1	SM	Poor	B	Friable	3	High	
2	252A-Janitors Closet	Ceiling	Plaster	1	SM	Poor	B	Friable	3	High	
2	266A	Piping	Pipe Insulation/Fittings	3	LM	Poor	B	Friable	3	High	Pipe shaft beside toilet (assume in all pipe shafts, most could not be opened)
2	266A	Piping	Pipe Insulation/Fittings	2	SM	Debris	B	Friable	1	High	Pipe shaft beside toilet (assume in all pipe shafts, most could not be opened)
2	272	Wall	Plaster	<1	SM	Poor	A	Friable	3	High	Perimeter wall behind desk
2	283	Piping	Pipe Insulation/Fittings	18	LM	Good	C (c)	Friable	7	Low	8LM near hall, and 10LM near window
2	283	Piping	Pipe Insulation/Fittings	1	Exposed End	Poor	C (c)	Friable	4	High	Near Hall
2	Main Corridors outside office spaces	Piping	Pipe Insulation/Fittings	50	LM	Good	C (c)	Friable	7	Low	Limited visual to above ceiling space above via ceiling hatches. Most hatches had stripped screws and could not be opened
2	Main Corridors outside office spaces	Piping	Pipe Insulation/Fittings	3	EA	Poor	C (c)	Friable	4	High	Outside of Room 267
2	Main Corridors outside office spaces	Piping	Pipe Insulation/Fittings	3	Exposed Ends	Poor	C (c)	Friable	4	High	Outside of Room 267
2	292 and 294	Piping	Pipe Insulation/Fittings	5	LM	Good	C (c)	Friable	7	Low	
2	Ceiling Plenum/Area above East and West Courts	Piping	Pipe Insulation/Fittings	5	LM	Good	D	Friable	7	Low	Limited visual, along south wall opening
2	Throughout	Wall, Ceiling, Column	Plaster	8000	SM	Good	All	Friable	7	Low	All plaster materials are assumed to contain asbestos. Concealed asbestos-containing plaster may be present above or behind current building materials (e.g. drywall, etc.). Exact location and quantity unknown due to concealed conditions throughout
2	Throughout	Piping	Pipe Insulation and fittings	Throughout	Throughout	Unknown	D	Friable	7	Low	Concealed asbestos piping is assumed present in inaccessible wall and ceiling cavities and associated with radiators. Assumed to be associated with plumbing in all washrooms as well.
Level 3 --3rd Floor											
3	Sitting Room, Outside Room 310	Wall	Stone wall mortar	5	SM	Good	A	Non-Friable	7	Low	
3	Closet next to 309, across from Library Main Desk	Wall	Cementitious Wall Parging	30	SM	Good	B	Non-Friable	7	Low	
3	Closet next to 309, across from Library Main Desk	Wall	Cementitious Wall Parging	1	LM	Fair	B	Friable	5/6	Low	
3	Closet next to 309, across from Library Main Desk	Piping	Pipe Insulation	2	LM	Good	B	Friable	7	Low	Associated with concealed pipe insulation in wall
3	South corridor behind library	Wall	Rough Plaster	170	SM	Good	B	Friable	7	Low	
3	South corridor behind library	Wall	Rough Plaster	3	SM	Poor	B	Friable	3	High	Poor condition plaster wall
3	South corridor behind library	Wall	Rough Plaster	2	SM	Poor	B	Friable	3	High	
3	Throughout	Ceiling	Cementitious Ceiling Parge	6500	SM	Good	B, C (c)	Non-Friable	7	Low	Assumed throughout. Visual observed in 3rd Floor south Mechanical Mezzanine above library and office areas. Full extent generally unknown due to concealed conditions
3	Throughout	Wall, Ceiling, Column	Plaster	6000	SM	Good	All	Friable	7	Low	All plaster materials are assumed to contain asbestos. Concealed asbestos-containing plaster may be present above or behind current building materials (e.g. drywall, etc.). Exact location and quantity unknown due to concealed conditions throughout

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Flr	Room/Area			num	unit						
3	Throughout	Piping	Pipe Insulation and fittings	Throughout	Throughout	Unknown	D	Friable	7	Low	Concealed asbestos piping is assumed present in inaccessible wall and ceiling cavities and associated with radiators. Assumed to be associated with plumbing in all washrooms as well. 3rd Floor exception: Washrooms looked refit with Fibreglass
Level 5 --1st Mechanical Floor											
5	Throughout	Roofing	Tar	2000	SM	Good	B	Non	7	Low	Tar visible in joints of cementitious roofing panels
5	Throughout	Wall, Ceiling, Column	Plaster	100	SM	Good	All	Friable	7	Low	All plaster materials are assumed to contain asbestos. Concealed asbestos-containing plaster may be present above or behind current building materials (e.g. drywall, etc.)
5	Northeast Wall	Wall	Plaster	2	SM	Poor	B	Friable	3	High	
5	Northeast Wall	Wall	Plaster	6	SM	Debris	B	Friable	1	High	
Stairwell											
West - Central Stairwell	Stairwell, Wall	Piping	Pipe insulation inside hatches	200	LM	Good	D	Friable	7	Low	vertical runs of ACM pipe insulation visible in hatches
East Stairwell	Stairwell, Wall	Piping	Pipe insulation, Wall hatch	40	LM	Good	D	Friable	7	Low	2 runs of aircell at 3rd Floor landing visible in wall hatch
Southeast Stairwell	Stairwell, Wall	Plaster	Walls	3	SM	Poor	A	Friable	3	High	Poor walls in stairwell
Southeast Stairwell	Stairwell, Wall	Piping	Pipe insulation	20	SM	Good	D	Friable	7	Low	Visible in crawlspace over east federal courthouse, assume same quantity for West side
Southwest Stairwell	Stairwell, Wall	Plaster	Walls	3	SM	Poor	A	Friable	3	High	Poor walls in stairwell/janitors closet off stairwell
Elevator											
Judges Elevator	Elevator Shaft	Walls	Parging/Rough Coat	200	SM	Good	B	Friable	7	Low	Location C
Throughout											
All Floors	All Floors	Radiators	Fibrous board inside radiator assemblies	300	SM	Good	D	Friable	7	Low	
All Floors	All Floors	Radiators	Parging behind radiators	300	SM	Good	D	Friable	7	Low	
All Floors	All Floors	Piping	Cast iron drain pipe joint caulking	Throughout	Throughout	Good	D	Suspect	7	Low	
Exterior	Exterior	Windows	Window putty and caulking	Throughout	Throughout	Good	D	Suspect	7	Low	
Exterior	Exterior	Roofing	Roofing Materials	Throughout	Throughout	Good	D	Suspect	7	Low	
Exterior	Exterior	Rooftop Hatch	Parging	2	SM	Good	B	Friable	7	Low	Both flat rooftops
All Floors	Fire doors/safe vault doors	Fire doors/safe vault doors	Concealed ACM lining	Throughout	Throughout	Good	D	Suspect	7	Low	

Legend

CONDITION:

GOOD - Completely encapsulated, no signs of damage, deterioration, or delamination.
 FAIR - Minor damage or penetration or ACM that has never been covered.
 POOR - Original cover or jacket is damaged or missing. ACM is exposed and amount of missing material/damage is moderate to severe.
 DEBRIS - Presence of fallen ACM. Major damage and no longer attached to its original component.

ACCESSIBILITY:

A - Areas of the building that are accessible to all building occupants.
 B - Areas of the building that are accessible to Maintenance and Operations staff only, without the need of a ladder.
 Ce - Areas of the building above 2.5 metres where use of a ladder is required to reach the ACM. ACM is exposed from floor level or ladder, without removing other building component.
 Cc - Area of the building which require the removal of a building component, including ceiling tile or access panel into solid ceiling.
 D - Areas of the building that are behind solid ceilings systems or within wall and ceiling cavities (e.g. areas where building material demolition is required to obtain access).

APPENDIX E - ASBESTOS-CONTAINING MATERIAL INVENTORY October 2020

Location		System	Description	Approx. Quantity		Condition	Access	Friability	Action	Priority	Additional Notes
Fir	Room/Area			num	unit						
1 - IMMEDIATE CLEAN UP OF ACM DEBRIS											
2 - PRECAUTIONS FOR ACCESS WHICH MAY DISTURB ACM DEBRIS											
3 - ACM REMOVAL											
4 - PRECAUTIONS FOR WORK WHICH MAY DISTURB ACM IN POOR CONDITION											
5 - PROACTIVE ACM REMOVAL											
6 - ACM REPAIR											
7 - MANANAGEMENT PROGRAM AND SURVEILLANCE											

	Good	Fair	Poor	Debris
A	5/7	5/6	3	1
B	7	6/5	3	1
Ce	7	6	4	2
Cc	7	7	4	2
D	7	7	7	7

General Notes:

1. Asbestos disturbance, abatement, transportation, and disposal shall be performed in accordance with requirements of O.Reg. 278/05, O.Reg. 347/90, as amended, and TDGA.
2. Quantities, conditions, and locations of asbestos-containing materials are to be confirmed on-site prior to removal or disturbance.
3. All quantities, where provided, are approximations and are for general reference purposes only. DST was not provided with scaled drawings or room dimensions.
4. Asbestos pipe insulation, where noted, could be asbestos-containing mag block, aircell, layered cardboard wrap, and fittings, or a combination of these materials.
5. Although this database provides approximate quantities for plaster materials on a per floor basis, quantities are to be considered general approximations. Plaster materials are generally concealed behind or above existing building finishes.
6. Generally piping insulation throughout the building is concealed above or behind solid building material finishes (e.g. plaster, terracotta, etc.) and as such, quantities remain generally unclear. Removal of solid building material finishes would be