



Mary Hopkins Elementary School HVAC and Ceiling Replacement

Designated Substance Audit Report

Project Location:

211 Mill Street North, Waterdown, ON

Prepared for:

Hamilton-Wentworth District School Board
20 Education Court, Hamilton, ON

Prepared by:

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March 17, 2023

Revised: February 11, 2024

MTE File No.: 53042-100





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1.0 Introduction

MTE Consultants Inc. (MTE) was retained by Hamilton-Wentworth District School Board to conduct a Designated Substance Audit for the building located at 211 Mill Street North in Watedown, Ontario.

The purpose of the audit was to identify the presence of Designated Substances within the building in accordance with Section 30 of the Occupational Health & Safety Act (OHSA), in advance of renovation.. This report meets the requirements of Section 30 of the OHSA and the requirements of Ontario Regulation (O. Reg.) 278/05.

2.0 Scope of Work

As requested by the Client, this assessment was limited to accessible interior and exterior finishes. These areas are referred to in the following sections as the “Subject Area”.

The Scope of Work for this assessment was completed by MTE and included the following activities:

- Review of existing or historical reports and documentation pertaining to Designated Substances within the building;
- Visual inspection of all accessible areas within the building and all accessible exterior finishes and elements to identify the following suspect Designated Substances and Hazardous Building Materials:
 - Asbestos;
 - Lead;
 - Mercury;
 - Silica;
 - Mould growth;
 - Ozone Depleting Substances; and
 - Polychlorinated Biphenyls
- The following Designated Substances are not expected to be present due to the building use or in a form that is hazardous: Acrylonitrile, Arsenic, Benzene, Coke Oven Emissions, Ethylene Oxide, Isocyanates, and Vinyl Chloride;
- Collection of bulk building material samples suspected to contain asbestos;
- Collection of paint scrape samples suspected to contain lead;
- Collection of sealant samples to determine Polychlorinated Biphenyl (PCB) content;
- Submission of samples to an accredited and/or qualified laboratory;
- Interpretation of laboratory results; and
- Preparation of this report of findings and recommendations.

3.0 Methodology and Assessment Criteria

This audit was conducted using visual and laboratory identification methods for the assessment of materials outlined in Section 2.0 and their corresponding location and use. Materials that are determined to be asbestos-containing materials (ACM) are further classified by their friability and condition. The areas outlined in Section 2.0 were inspected and limited to building components, materials and service connections. Notwithstanding that reasonable attempts were made to identify all Designated Substances, the possibility of concealed substances and material exists and may not become visible until substantial demolition has occurred and therefore are currently undocumented. All work was conducted in accordance with industry accepted methods and MTE Standard Operating Procedures and did not include the following:

- Materials indicated in this report as “Potentially Concealed”;
- Locations that may be hazardous to the surveyor (located at heights, electrical equipment, confined spaces);
- Where invasive inspection could cause consequential damage to the property or impair the integrity of the equipment, such as roof system, sealants, exterior finishes, underground services or components of mechanical equipment;
- Locations concealed by building finishes that require substantial demolition or removal for access or determination of quantities (plumbing or electrical lines);
- Non-permanent items or personal contents, furnishings; and
- Settled dust or airborne agents unless otherwise stated.

4.0 Assessment and Results

An initial inspection of the building was conducted by MTE on March 3, 2023.

Subsequent visits to the Site were completed on November 1, 2023, January 29, 2024, February 7, 2024 and February 8, 2024.

A description of the building and assessed finishes is provided below. Refer to Section 4.1 for a summary of findings.

Building Element	Description
Exterior Finishes	Concrete Brick veneer and mortar Sealants Flat roof system
Building Structure	Structural steel Wood Frame Concrete Concrete block
Mechanical Systems/Insulations	Boiler heating Roof mounted central air conditioning Window mounted air conditioning Parging on pipe fittings Duct wrap Fibreglass insulation on pipe straights, foil wrapped elbows Fibreglass duct insulation

Building Element	Description
	Fiberglass insulation covered with Polyvinyl Chloride (PVC) Aircell Pipe Insulation
Electrical/Plumbing Systems	Fluorescent Light tubes Copper piping with solder
Floor Finishes	Vinyl sheet flooring with paper backing Vinyl floor tiles Hardwood Concrete Terrazzo
Wall Finishes	Concrete Drywall Plaster
Ceiling Finishes	Drywall Plaster Hard texture finish Asbestos cement (Transite) 2' x 2'4' Large Fissure Random Pinhole ceiling tiles 2' x 2'4' Small Fissure Random Pinhole ceiling tiles (1996 manufacturing date stamp)

4.1 Findings and Analytical Results

A summary of sampling locations and analytical results are included in **Appendix A** and is inclusive of historical sampling, as outlined in Section 4.0.

Laboratory certificates of analysis are included in **Appendix B**.

Figures of inspected areas are included in **Appendix C**.

A Photo graphic log is included in **Appendix D**.

A detailed summary of findings and recommended actions is provided in **Table 4.4 of Appendix A**.

4.1.1 Asbestos

Asbestos was used in building materials throughout the years with a peak usage in the 1950s and 1960s. While the manufacture of most ACM was banned in the 1970s, buildings constructed in the 1980s have the potential for ACM as well. In 1986, legislation limiting the use of asbestos in consumer products was introduced.

As part of this inspection, a total of 149 bulk samples of suspect ACM were submitted for asbestos analysis with a total of 142 analyses being performed. The difference between the number of samples submitted and the number of samples analysed can be a function of either the stop-positive method or the requirement of analyzing multiple layers, performed by the laboratory, from a single sample reported as additional samples or subsets of a sample.

Bulk samples were submitted for asbestos analysis to Paracel Laboratories Ltd. (Paracel), in Mississauga, Ontario. Paracel is certified under the Canadian Association of Laboratory Accreditation to perform asbestos analysis of bulk samples (accreditation number A3762). Laboratory analysis was conducted in accordance with the United States Environmental Protection Agency (USEPA), Test Method EPA/600-R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June, 1993 by Polarized Light Microscopy (PLM) as prescribed by O. Reg. 278/05.

Based on the laboratory results and visual identification, ACM was confirmed present at the time of the inspection. In addition, suspect ACM was either observed or may potentially be concealed by building finishes.

4.1.2 Lead

Lead was historically used in mortar pigments, ceramic glazing; plumbing solder, electrical equipment and electronics solder, in pipe gaskets as packing in cast iron bell and spigot joints of sanitary drains, flexible plumbing connections, flashing panels, acoustical dampeners, phone cable casing and some architectural applications. In buildings constructed after 1990, these applications are no longer applicable outside of specialized uses (shielding for medical imaging etc.).

As part of this inspection, a total of 12 paint scrape samples were collected from surfaces and represent the paint colours observed throughout the Subject Area.

Samples were submitted for laboratory analysis by ASTM D3335-85A “Standard Method to Test for Low Concentrations of Lead in Paint by Atomic Absorption Spectrophotometry” following MOE Method E3470 Inductively Coupled Plasma Optical Emission Spectrometry to Paracel Laboratories Ltd., in Ottawa, Ontario. Paracel is accredited by the Canadian Association of Laboratory Accreditation to perform bulk lead analysis of paint.

Based on the laboratory results and visual identification, lead-containing materials were confirmed present at the time of the inspection. In addition, lead-containing solder on copper pipe connections were observed and lead packed pipe gaskets may potentially be concealed in buried lines or wall cavities.

4.1.3 Mercury

Mercury is typically used in building service applications such as fluorescent light tubes, compact fluorescent bulbs, metal halide (sodium halide) lamp bulbs, and neon lights as a vapour. Mercury may exist in thermostats and pipe or mechanical equipment thermometers as a liquid. Mercury is presumed to be present in the above materials.

Mercury-containing materials were visually identified at the time of the inspection.

4.1.4 Silica

Silica is present in rock, stone, soil, and sand. Masonry products such as concrete block, brick, and mortar, as well as concrete and associated products contain silica. Due to its ubiquitous nature, silica was historically used in a wide variety of building materials and is still used today in new construction.

Building materials that are presumed to contain silica were visually identified at the time of the inspection.

4.1.5 Mould

No water damaged or mould growth impacted building materials were observed during the inspection.

4.1.6 Polychlorinated Biphenyls (PCB)

Suspect PCB-containing light ballasts were visually identified during the inspection. All live electrical equipment that could not be properly and safely de-energized was not assessed, therefore light ballasts were not inspected. Light ballasts which were not accessed, will require additional investigation to determine their PCB content when removed from service.

As part of this inspection, a total of 3 sealant samples were collected from building components which may be disturbed during the proposed project. Samples were collected and submitted to Paracel for laboratory analysis under US EPA Method 8082A for PCBs. In Ontario, under Ontario Regulation 362, a PCB-containing solid is defined as any material or substance other than a PCB liquid that contains or is contaminated with PCBs at a concentration greater than 50 µg/g by weight of PCBs.

Based on the laboratory results, no other PCB-containing materials were confirmed present at the time of the inspection.

4.1.7 Ozone-Depleting Substances (ODS)

ODS are chemical compounds that include chlorofluorocarbons (cfcs), hydrochlorofluorocarbons (hcfcs), halons, methyl bromide, carbon tetrachloride, hydrobromofluorocarbons, chlorobromomethane, and methyl chloroform which are widely used in cooling and refrigeration. The use of ODS is regulated under Ontario Regulation 463/10 *Ozone Depleting Substances and Other Halocarbons Made under the Environmental Protection Act*.

Building components presumed to contain ODS were identified at the time of the inspection.

4.2 Conclusions and Recommendations

A detailed summary of recommended actions is provided in **Table 4.4 of Appendix A**.

In accordance with Section 30 of OHSA and Section 8 of O. Reg. 278/05, the Owner must provide a copy of this report to all contractors doing work at the building. The Owner must also provide a copy of this report to all prospective contractors.

Should any additional suspect Designated Substances be discovered during building renovation demolition, work in the vicinity should cease and the materials should not be disturbed until proper notification, testing and abatement instructions are provided. All waste generated as a result of any and all work at the Site must be handled, transported and disposed of in accordance with Ontario Regulation 347 made under the Environmental Protection Act and local by-laws. Based on the assessment findings and analytical results, the following abatement measures are presented. It should be noted that the recommended actions are the minimum required actions, as prescribed by the appropriate Acts, regulations, guidelines, standards, codes and general best practice measures.

4.2.1 Asbestos

ACMs were identified during the assessment. If these materials, including those deemed or suspected, will be disturbed, or will likely be disturbed, during building maintenance, renovations, construction, or demolition activities, they must be handled and disposed of in accordance with the procedures prescribed by O. Reg. 278/05.

All asbestos work must be conducted by contractors who are trained in the type of asbestos operations required, and should be overseen by a qualified third party Health, Safety and Environmental professional. In order to conduct Type 3 asbestos operations, contractors must be certified as Asbestos Abatement Workers AAW (Trade code 253W) and Asbestos Abatement Supervisors AAS (Trade code 253S) by The Ministry of Training, Colleges and Universities (Ministry of Advanced Education and Skills Development) as prescribed by Section 20 of O. Reg. 278/05. Suspect or visually confirmed ACM must be deemed to be asbestos-containing and treated as if they contain a type of asbestos other than Chrysotile.

ACM may be present in concealed locations and if construction, renovation, alteration, or maintenance activities are planned, invasive inspections of concealed locations for potential ACM must be performed prior to such activities.

Should any suspect ACM be discovered during the course of construction, renovation, alteration, or maintenance activities, work which disturbs the material must cease immediately. Suspect ACM must be treated as asbestos-containing or sampled prior to disturbance to assess the presence of asbestos.

4.2.2 Lead

Lead-based paint, lead-containing paint, and suspect lead-containing solder on plumbing connections were identified. As such special requirements for the management, handling and disposal of lead-containing materials by the owner, constructor, contractor, sub-contractors and workers apply. The abatement contractor should consult Environmental Abatement Council of Canada's (EACC) *Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014)* for the procedures and methods required to remove and dispose of lead-containing materials.

Low level lead-containing paint is present and the following general procedures are recommended as a precautionary measure as per Environmental Abatement Council of Canada's (EACC) *Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014)*:

- General dust control;
- The washing of hands and face at on-site facilities;
- No smoking, eating, chewing gum or drinking in the work area; and
- No removal of painted surfaces by means of abrasive blasting.

4.2.3 Mercury

Mercury-containing materials were identified. All mercury containing materials or sources should be removed, intact, prior to any work which may disturb or damage them and cause worker exposure to mercury liquid and/or vapour.

On-site crushing of mercury-containing materials should not occur. Care should be taken to ensure safe storage of the above until recycling or disposal can be coordinated. Under current legislation, mercury waste requires handling and disposal in accordance with Ontario Regulation 490/09 of the OHSA and Ontario Regulation 347 of the Environmental Protection Act.

4.2.4 Silica

Silica is presumed to be present; therefore, special requirements for management and handling are required. The contractor should also consult MOL Occupational Health and Safety Branch's *Guideline: Silica on Construction Projects (April 2011)* for the procedures and methods required to remove and dispose of silica-containing materials.

4.2.5 Mould

No water damage or suspect mould growth was observed during the assessment; therefore, no special management and handling requirements are warranted.

4.2.6 PCBs

Suspect PCB-containing fluorescent light ballasts were identified but could not be conclusively classified as PCB-containing or non-PCB-containing. PCB-containing sealant was identified within the Subject Areas; therefore, special management, handling and disposal requirements apply to the proposed work.

It is the responsibility of the owner to inspect, or ensure the inspection of all light ballasts as they are removed from service to make certain they are properly classified as PCB-containing or non-PCB containing. Fixtures will require dismantling to access date stamps (located on the back of the ballast) in order to be correctly classified in accordance with Environment Canada's document "*Identification of Lamp Ballasts Containing PCBs, Report EPS 2/CC/2 (revised), August 1991*".

Statutory Orders and Regulations (SOR)/2008-273, the *PCB Regulations*, made under the *Canadian Environmental Protection Act*, permits continued use of in-service PCB-containing light ballasts until the end of service life or until December 31, 2025.

4.2.7 Ozone Depleting Substances

Building components presumed to contain ODS were identified and special requirements for management, handling and disposal by the owner, constructor, contractor, sub-contractors and workers apply.

Under current legislation, there are no requirements to remove ODSs from service simply because they are present. However, prior to commencing any work where this equipment will be dismantled, destroyed or disposed of, the refrigerant must be drained by a licensed technician and tagged with a notice indicating that the equipment no longer contains refrigerant. The appropriate notices or records shall be maintained in accordance with O. Reg. 463/10 for a minimum of two (2) years and shall include, but not be limited to, service records, transfers/releases of refrigerants, refrigerant types and refrigerant systems.

5.0 Limitations

Services performed by **MTE Consultants Inc.** (MTE) were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Environmental Engineering & Consulting profession. No other representation expressed or implied as to the accuracy of the information, conclusions or recommendations is included or intended in this report.

This report was completed for the sole use of MTE and the Client. It was completed in accordance with the approved Scope of Work referred to in Section 2.0. As such, this report may not deal with all issues potentially applicable to the site and may omit issues that are or may be of interest to the reader. MTE makes no representation that the present report has dealt with all-important environmental features, except as provided in the Scope of Work. All findings and conclusions presented in this report are based on site conditions, as they existed during the time period of the investigation. This report is not intended to be exhaustive in scope or to imply a risk-free facility.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such third parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by any third party as a result of decisions made or actions taken, based upon this report. Others with interest in the site should undertake their own investigations and studies to determine how or if the condition affects them or their plans.

It should be recognized that the passage of time might affect the views, conclusions and recommendations (if any) provided in this report because environmental conditions of a property can change. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may re-assess the contents of this report.

All of which is respectfully submitted,

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Appendix A

Tables

TABLE 4.1: BULK ASBESTOS SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	Asbestos Results (% Type)	Is Material ACM
S01A	MECHANICAL ROOM 120 (BUT OBSERVED PRESENT THROUGHOUT BASEMENT AND THIRDFLOOR CLASSROOMS)	AIRCELL PIPE INSULATION	60% CHYSOTILE	YES
S01B	MECHANICAL ROOM 120 (BUT OBSERVED PRESENT THROUGHOUT BASEMENT AND THIRDFLOOR CLASSROOMS)	AIRCELL PIPE INSULATION	NA	YES
S01C	MECHANICAL ROOM 120 (BUT OBSERVED PRESENT THROUGHOUT BASEMENT AND THIRDFLOOR CLASSROOMS)	AIRCELL PIPE INSULATION	NA	YES
S02A	MECHANICAL ROOM 120 (BUT OBSERVED PRESENT THROUGHOUT BASEMENT AND THIRDFLOOR CLASSROOMS)	PIPE ELBOW INSULATION	70% CHRYSOTILE	YES
S02B	MECHANICAL ROOM 120 (BUT OBSERVED PRESENT THROUGHOUT BASEMENT AND THIRDFLOOR CLASSROOMS)	PIPE ELBOW INSULATION	NA	YES
S02C	MECHANICAL ROOM 120 (BUT OBSERVED PRESENT THROUGHOUT BASEMENT AND THIRDFLOOR CLASSROOMS)	PIPE ELBOW INSULATION	NA	YES
S03A	ROOM 223	ROLLED SHEET FLOORING - GREEN WITH BLACK AND WHITE MARBLE STREAKS	ND	NO
S03B	ROOM 223	ROLLED SHEET FLOORING - GREEN WITH BLACK AND WHITE MARBLE STREAKS	ND	NO
S03C	ROOM 223	ROLLED SHEET FLOORING - GREEN WITH BLACK AND WHITE MARBLE STREAKS	ND	NO
S04A	ROOM 222	ROLLED SHEET FLOORING - PEACH PAPER BACKING	ND	NO
S04B	ROOM 222	ROLLED SHEET FLOORING - PEACH PAPER BACKING	ND	NO
S04C	ROOM 222	ROLLED SHEET FLOORING - PEACH PAPER BACKING	ND	NO
S05A	ROOM 221A	12"x12" VINYL FLOOR TILE - BEIGE WITH WHITE STREAK MASTIC	ND	NO
S05B	ROOM 221A	12"x12" VINYL FLOOR TILE - BEIGE WITH WHITE STREAK MASTIC	ND	NO
S05C	ROOM 221A	12"x12" VINYL FLOOR TILE - BEIGE WITH WHITE STREAK MASTIC	ND	NO
S06A	ROOM 218 (BUT ALSO OBSERVED IN 215)	12"x12" VINYL FLOOR TILE - BEIGE WITH ORANGE STREAK	1% CHRYSOTILE	YES
		MASTIC	ND	NO

TABLE 4.1: BULK ASBESTOS SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	Asbestos Results (% Type)	Is Material ACM
S06B	ROOM 218 (BUT ALSO OBSERVED IN 215)	12"x12" VINYL FLOOR TILE - BEIGE WITH ORANGE STREAK	NA	YES
		MASTIC	ND	NO
S06C	ROOM 218 (BUT ALSO OBSERVED IN 215)	12"x12" VINYL FLOOR TILE - BEIGE WITH ORANGE STREAK	NA	YES
		MASTIC	ND	NO
S07A	ROOM 206	12"x12" - VINYL FLOOR TILE - GREY WITH PEACH FLECK	ND	NO
		MASTIC	ND	NO
S07B	Room 205	12"x12" - VINYL FLOOR TILE - GREY WITH PEACH FLECK	ND	NO
		MASTIC	ND	NO
S07C	Room 206	12"x12" - VINYL FLOOR TILE - GREY WITH PEACH FLECK	ND	NO
		MASTIC	ND	NO
S08A	ROOM 213	ROLLED SHEET FLOORING - BROWN	ND	NO
		PAPER BACKING	<MDL	NO
S08B	ROOM 213	ROLLED SHEET FLOORING - BROWN	ND	NO
		PAPER BACKING	<MDL	NO
S08C	ROOM 213	ROLLED SHEET FLOORING - BROWN	ND	NO
		PAPER BACKING	<MDL	NO
S09A	CORRIDOR 301 (BUT OBSERVED THROUGHOUT STAIRWELL AND CORRIDORS)	12"X12" VINYL FLOOR TILE - BEIGE WITH WHITE AND BROWN STREAKS	ND	NO
		MASTIC	ND	NO
S09B	CORRIDOR 401 (BUT OBSERVED THROUGHOUT STAIRWELL AND CORRIDORS)	12"X12" VINYL FLOOR TILE - BEIGE WITH WHITE AND BROWN STREAKS	ND	NO
		MASTIC	ND	NO
S09C	CORRIDOR 401 (BUT OBSERVED THROUGHOUT STAIRWELL AND CORRIDORS)	12"X12" VINYL FLOOR TILE - BEIGE WITH WHITE AND BROWN STREAKS	ND	NO
		MASTIC	ND	NO
S10A	ROOM 303	12"X12" VINYL FLOOR TILE - GREY WITH WHITE STREAK	ND	NO
		MASTIC	ND	NO
S10B	ROOM 309	12"X12" VINYL FLOOR TILE - GREY WITH WHITE STREAK	ND	NO
		MASTIC	ND	NO
S10C	ROOM 305	12"X12" VINYL FLOOR TILE - GREY WITH WHITE STREAK	ND	NO
		MASTIC	ND	NO
S11A	ROOM 302 (BUT ALSO OBSERVED IN 405)	12"X12" VINYL FLOOR TILE - WHITE WITH BROWN STREAK	ND	NO
		MASTIC	ND	NO
S11B	ROOM 302 (BUT ALSO OBSERVED IN 405)	12"X12" VINYL FLOOR TILE - WHITE WITH BROWN STREAK	ND	NO
		MASTIC	ND	NO
S11C	ROOM 302 (BUT ALSO OBSERVED IN 405)	12"X12" VINYL FLOOR TILE - WHITE WITH BROWN STREAK	ND	NO
		MASTIC	ND	NO
S12A	ROOM 311	PIPE ELBOW INSULATION	ND	NO
S12B	ROOM 311	PIPE ELBOW INSULATION	ND	NO
S12C	ROOM 311	PIPE ELBOW INSULATION	ND	NO
S13A	ROOM 408	12"X12" VINYL FLOOR TILE - BEIGE WITH RED STRIPE	ND	NO
		MASTIC	ND	NO
S13B	ROOM 408	12"X12" VINYL FLOOR TILE - BEIGE WITH RED STRIPE	ND	NO
		MASTIC	ND	NO
S13C	ROOM 408	12"X12" VINYL FLOOR TILE - BEIGE WITH RED STRIPE	ND	NO
		MASTIC	ND	NO
S14A	STAIRWELL	2'X4' CEILING TILE - LARGE FISSURE RANDOM PINHOLE	ND	NO
S14B	STAIRWELL	2'X4' CEILING TILE - LARGE FISSURE RANDOM PINHOLE	ND	NO
S14C	STAIRWELL	2'X4' CEILING TILE - LARGE FISSURE RANDOM PINHOLE	ND	NO
S15A	ROOM 403	12"X12" VINYL FLOOR TILE - WHITE WITH BLACK STRIPE	ND	NO
		MASTIC	ND	NO
S15B	ROOM 403	12"X12" VINYL FLOOR TILE - WHITE WITH BLACK STRIPE	ND	NO
		MASTIC	ND	NO

TABLE 4.1: BULK ASBESTOS SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	Asbestos Results (% Type)	Is Material ACM
S15C	ROOM 403	12"X12" VINYL FLOOR TILE - WHITE WITH BLACK STRIPE	ND	NO
		MASTIC	ND	NO
S16A	SAMPLE NOT SUBMITTED			
S16B				
S16C				
S17A	ROOM 116	12"X12" VINYL FLOOR TILE - PINK WITH FLECK	ND	NO
		MASTIC	ND	NO
S17B	ROOM 102	12"X12" VINYL FLOOR TILE - PINK WITH FLECK	ND	NO
		MASTIC	ND	NO
S17C	ROOM 117	12"X12" VINYL FLOOR TILE - PINK WITH FLECK	ND	NO
		MASTIC	ND	NO
S18A	ROOM 116	12"X12" VINYL FLOOR TILE - GREEN WITH FLECK	ND	NO
		MASTIC	ND	NO
S18B	ROOM 102	12"X12" VINYL FLOOR TILE - GREEN WITH FLECK	ND	NO
		MASTIC	ND	NO
S18C	ROOM 117	12"X12" VINYL FLOOR TILE - GREEN WITH FLECK	ND	NO
		MASTIC	ND	NO
S19A	EXTERIOR	BRICK MORTAR	ND	NO
S19B	EXTERIOR	BRICK MORTAR	ND	NO
S19C	EXTERIOR	BRICK MORTAR	ND	NO
S20A	ROOM 214 (BUT OBSERVED THROUGHOUT NORTH WING)	PLASTER	ND	NO
S20B	ROOM 214 (BUT OBSERVED THROUGHOUT NORTH WING)	PLASTER	ND	NO
S20C	ROOM 214 (BUT OBSERVED THROUGHOUT NORTH WING)	PLASTER	ND	NO
S21A	GYMNASIUM - 002	DRYWALL JOINT COMPOUND - CEILING	ND	NO
S21B	GYMNASIUM - 002	DRYWALL JOINT COMPOUND - CEILING	ND	NO
S21C	GYMNASIUM - 002	DRYWALL JOINT COMPOUND - CEILING	ND	NO
S22A	ROOM 306	12"X12" VINYL FLOOR TILE - WHITE WITH GREY AND BROWN FLECK	ND	NO
		MASTIC	ND	NO
S22B	ROOM 306	12"X12" VINYL FLOOR TILE - WHITE WITH GREY AND BROWN FLECK	ND	NO
		MASTIC	ND	NO
S22C	ROOM 306	12"X12" VINYL FLOOR TILE - WHITE WITH GREY AND BROWN FLECK	ND	NO
		MASTIC	ND	NO
S23A	ROOM 306 (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO
S23B	ROOM 305 (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO
S23C	CORRIDOR 401 (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO
S23D	CORRIDOR 401 (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO
S23E	ROOM 206 (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO
S23F	ROOM 103 (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO

TABLE 4.1: BULK ASBESTOS SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	Asbestos Results (% Type)	Is Material ACM
S23G	GROUND FLOOR STAIRWELL (BUT OBSERVED THROUGHOUT INTERIOR)	PLASTER	ND	NO
S24A	ROOF 1	VAPOUR BARRIER	ND	NO
S24B	ROOF 1	VAPOUR BARRIER	ND	NO
S24C	ROOF 1	VAPOUR BARRIER	ND	NO
S25A	ROOF 1	MEMBRANE	ND	NO
S25B	ROOF 1	MEMBRANE	ND	NO
S25C	ROOF 1	MEMBRANE	ND	NO
S26A	ROOF 2	MEMBRANE	ND	NO
S26B	ROOF 2	MEMBRANE	ND	NO
S26C	ROOF 2	MEMBRANE	ND	NO
S27A	ROOF 3	VAPOUR BARRIER	ND	NO
S27B	ROOF 3	VAPOUR BARRIER	ND	NO
S27C	ROOF 3	VAPOUR BARRIER	ND	NO
S28A	ROOF 3	MEMBRANE	ND	NO
S28B	ROOF 3	MEMBRANE	ND	NO
S28C	ROOF 3	MEMBRANE	<MDL	NO
S29A	ROOF 4	VAPOUR BARRIER	ND	NO
S29B	ROOF 4	VAPOUR BARRIER	ND	NO
S29C	ROOF 4	VAPOUR BARRIER	ND	NO
S30A	ROOF 4	MEMBRANE	ND	NO
S30B	ROOF 4	MEMBRANE	ND	NO
S30C	ROOF 4	MEMBRANE	ND	NO
S31A	ROOF 2	GREY SEALANT	ND	NO
S31B	ROOF 2	GREY SEALANT	ND	NO
S31C	ROOF 2	GREY SEALANT	ND	NO
S32A	ROOF 1	GREY/BLACK SEALANT	ND	NO
S32B	ROOF 1	GREY/BLACK SEALANT	ND	NO
S32C	ROOF 1	GREY/BLACK SEALANT	ND	NO
S33A	EXTERIOR	LIGHT GREY SEALANT	ND	NO
S33B	EXTERIOR	LIGHT GREY SEALANT	ND	NO
S33C	EXTERIOR	LIGHT GREY SEALANT	ND	NO
CEILING INVESTIGATION SAMPLING (09/11/23)				
S01A	ROOM 205	2'X4' CEILING TILE - MEDIUM FISSURE RANDOM PINHOLE	ND	NO
S01B	ROOM 205	2'X4' CEILING TILE - MEDIUM FISSURE RANDOM PINHOLE	ND	NO
S01C	ROOM 205	2'X4' CEILING TILE - MEDIUM FISSURE RANDOM PINHOLE	ND	NO
S02A	ROOM 205 (BUT ALSO OBSERVED THROUGHOUT GROUND FLOOR CLASSROOMS)	1'X1' RANDOM PINHOLE CEILING TILE	ND	NO
S02B	ROOM 205 (BUT ALSO OBSERVED THROUGHOUT GROUND FLOOR CLASSROOMS)	1'X1' RANDOM PINHOLE CEILING TILE	ND	NO
S02C	ROOM 205 (BUT ALSO OBSERVED THROUGHOUT GROUND FLOOR CLASSROOMS)	1'X1' RANDOM PINHOLE CEILING TILE	ND	NO
S03A	ROOM 205 (BUT ALSO OBSERVED THROUGHOUT GROUND FLOOR CLASSROOMS)	1'X1' LARGE PINHOLE CEILING TILE	ND	NO
S03B	ROOM 205 (BUT ALSO OBSERVED THROUGHOUT GROUND FLOOR CLASSROOMS)	1'X1' LARGE PINHOLE CEILING TILE	ND	NO

TABLE 4.1: BULK ASBESTOS SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	Asbestos Results (% Type)	Is Material ACM
S03C	ROOM 205 (BUT ALSO OBSERVED THROUGHOUT GROUND FLOOR CLASSROOMS)	1'X1' LARGE PINHOLE CEILING TILE	ND	NO
S04A	ROOM 215	CEILING MASTIC	ND	NO
S04B	ROOM 215	CEILING MASTIC	ND	NO
S04C	ROOM 215	CEILING MASTIC	ND	NO
TACKBOARD MASTIC SAMPLING (30/01/24)				
S01A	ROOM 223	CHALKBOARD MASTIC	0.5% CHRYSOTILE	YES
S01B	ROOM 223	CHALKBOARD MASTIC	NA	YES
S01C	ROOM 223	CHALKBOARD MASTIC	NA	YES
FLOOR TILE SAMPLING (07/02/24)				
S01A	ROOM 311	12"x12" VINYL FLOOR TILE - GREY WITH BLACK AND WHITE FLECK	ND	NO
		MASTIC	ND	NO
S01B	ROOM 311	12"x12" VINYL FLOOR TILE - GREY WITH BLACK AND WHITE FLECK	ND	NO
		MASTIC	ND	NO
S01C	ROOM 311	12"x12" VINYL FLOOR TILE - GREY WITH BLACK AND WHITE FLECK	ND	NO
		MASTIC	ND	NO

A bulk material sample containing 0.5% or more asbestos therefore establishes that material as asbestos-containing. In accordance with Table 1 of O. Reg. 278/05, a minimum number of samples for the material to be classified as non asbestos. A homogeneous material is defined by O. Reg. 278/05 "as material that is uniform in colour and texture". Homogeneous samples are identified by an alphabetical suffix to sample names to represent multiple samples of a homogeneous material. When a homogeneous material is analysed it is determined to be asbestos-containing upon the first positive detection of asbestos equal to or greater than 0.5%. Subsequent samples of the same material are therefore not analysed. Some bulk samples are comprised of multiple layers and as such will require multiple analysis. In such cases each layer is isolated at the laboratory and analysed individually to determine asbestos content. As a result the laboratory may report additional samples beyond the submitted number of samples or include multiple analyses as subsets within a sample.

TABLE 4.2: LEAD IN PAINT SAMPLE SUMMARY TABLE

Sample #	Location	Colour	Material	Lead Content (ug/g)	Classification
LP1	BOILER ROOM	GREEN	WALLS	<5	LOW LEVEL LEAD-CONTAINING
LP2	BOILER ROOM	WHITE	WALLS	31	LOW LEVEL LEAD-CONTAINING
LP3	THROUGHOUT INTERIOR	BEIGE	WALLS	1,050	LEAD-CONTAINING
LP4	THROUGHOUT INTERIOR CLASSROOMS	GREY	WALLS	1100	LEAD-CONTAINING
LP5	LEARNING COMMONS	WHITE	WALLS	1570	LEAD-CONTAINING
LP6	BASEMENT	DARK GREY	WALLS	7	LOW LEVEL LEAD-CONTAINING
LP7	BASEMENT	GREY	FLOORS AND STAIRS	2720	LEAD-CONTAINING
LP8	BASEMENT BATHROOM AND STAFFROOM	WHITE	WALLS	1400	LEAD-CONTAINING
LP9	EXTERIOR BASE	WHITE	CONCRETE FOUNDATION	14800	LEAD-BASED
LP10	CLASSROOMS/MAIN OFFICE	GREY	WALLS	320	LOW LEVEL LEAD-CONTAINING
LP11	CLASSROOMS	WHITE	WALLS AND RADIATORS	17	LOW LEVEL LEAD-CONTAINING
LP12	EXTERIOR	BROWN	DOORS AND WINDOWS	13800	LEAD-BASED

"<": The samples analysed reported concentrations of lead to be less than 1000 ug/g and are therefore classified as low level lead-containing. However, no lead concentrations were reported above the sample specific laboratory detection limit.

As outlined in EACO's Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014), for the purpose of classifying surface coatings and mortars by laboratory analysis, any material containing lead at a concentration:

- Greater than 0.5% by weight (5,000 µg/g, mg/kg, ppm) is considered lead-based;
- Between 0.1 % and 0.5% by weight (1,000 to 5,000 µg/g, mg/kg, ppm) is considered lead-containing; or
- Less than 0.1% (1,000 µg/g, mg/kg, ppm) is considered low level lead-containing.

TABLE 4.3: BULK PCB SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	PCB Content (ug/g)	Classification
PCB01	ROOF 1	GREY/BLACK SEALANT	<5	Non-PCB
PCB02	EXTERIOR	LIGHT GREY SEALANT	<5	Non-PCB
PCB03	ROOF 2	GREY SEALANT	<5	Non-PCB

As outlined in the Statutory Orders and Regulations (SOR)/2008-273, the PCB Regulations, made under the Canadian Environmental Protection Act, 1999, any material containing PCB at a concentration:

- Greater than 50 µg/g is considered PCB-Containing

Table 4.4 - Summary of Designated Substances and Recommended Actions

211 Mill Street North, Waterdown, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Asbestos Friable	Piping Throughout Basement (Excluding Mechanical Crawl Space 005, 005, 006 and Boiler Room 120, 120A, 120C, 120D, which have been Abated)	Insulation on Pipe Fittings	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 < 1m ² as a Type 2 or Type 2 Glove Bag Operation and for > 1m ² as a Type 2 Glove Bag or Type 3 Operation
Asbestos Friable	Piping Throughout Basement (Excluding Mechanical Crawl Space 005, 005, 006 and Boiler Room 120, 120A, 120C, 120D, which have been Abated) and Third Floor	Air Cell Insulation on Piping	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 < 1m ² as a Type 2 or Type 2 Glove Bag Operation and for > 1m ² as a Type 2 Glove Bag or Type 3 Operation
Asbestos Non-Friable	Room 218 and 215	12"x12" Beige with orange streak Floor Tile	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Asbestos Non-Friable	Throughout Interior Classrooms Behind Chalkboards	Board Gasket/Mastic	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Potentially Concealed Asbestos	Walls Behind Non-Asbestos Plaster	Various Wall Finishes and Components	In place management in accordance with O. Reg. 278/05	Invasive inspection and sampling prior to maintenance/renovations/construction/demolition activities, if sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Boiler	Boiler Refractory/Gaskets	In place management in accordance with O. Reg. 278/05	Invasive inspection and sampling prior to maintenance/renovations/construction/demolition activities, if sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Electrical Wiring Throughout Interior of Building	Jacketing on Electrical Wiring	In place management in accordance with O. Reg. 278/05	Invasive inspection and sampling prior to maintenance/renovations/construction/demolition activities, if sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Basement Mechanical Room	Door Core Insulation	In place management in accordance with O. Reg. 278/05	Invasive inspection and sampling prior to maintenance/renovations/construction/demolition activities, if sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Wall Cavities	Vermiculite Loose-Fill Insulation	In place management in accordance with O. Reg. 278/05	Invasive inspection and sampling prior to maintenance/renovations/construction/demolition activities, if sampling confirms as ACM, removal in accordance with O. Reg. 278/05

Table 4.4 - Summary of Designated Substances and Recommended Actions

211 Mill Street North, Waterdown, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Lead-Based Paint	Exterior	White Paint on Concrete Foundation	In place management in accordance with EACC's Lead Guideline	<p>Removal as required prior to maintenance, renovations, construction or demolition activities in accordance with EACC's Lead Guideline as a: Class 1, Class 2A, Class 3A, or a Class 3B Operation</p> <p>If paint is not removed prior to disposal of any metal building finishes, these materials must be deemed hazardous waste, then manifested and disposed of off-site at a MOECP facility that is licensed to accept hazardous waste.</p> <p>If this paint is not removed prior to disposal of any other building finishes, these materials require analysis of Leachable Lead according to Ontario Regulation 558/00. If confirmed or deemed hazardous waste, materials must then be manifested and disposed of off-site at a MOECP facility that is licensed to accept hazardous waste.</p>
	Exterior	Brown Paint on Exterior Windows and Doors		
Lead-Containing Paint	Throughout Interior	Beige Paint on Walls	In place management in accordance with EACC's Lead Guideline	<p>Removal as required prior to maintenance, renovations, construction or demolition activities in accordance with EACC's Lead Guideline as a: Class 1, Class 2A, Class 3A, or a Class 3B Operation</p>
	Throughout Interior Classrooms	Grey Paint on Walls	In place management in accordance with EACC's Lead Guideline	
	Learning Commons	White Paint on Walls	In place management in accordance with EACC's Lead Guideline	
	Basement	Grey Paint on Floors and Stairs	In place management in accordance with EACC's Lead Guideline	
	Basement Bathroom and Staffroom	White Paint on Walls	In place management in accordance with EACC's Lead Guideline	
Low Level Lead Containing Paint	Boiler Room	Green Paint on Walls	None	<p>General hygiene procedures during renovation activities: General dust control, Washing of hands and face at on-site facilities, No smoking, eating, chewing gum or drinking in the work area, No abrasive blasting</p>
	Boiler Room	White Paint on Walls		
	Basement	Dark Grey Paint on Walls		
	Classrooms and Main Office	Grey Paint on Walls		
	Classrooms	White Paint on Walls and Radiators		

Table 4.4 - Summary of Designated Substances and Recommended Actions

211 Mill Street North, Waterdown, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Lead	Throughout Interior of Building on Plumbing Connections	Lead Solder on Copper Pipe	In place management in accordance with EACC's Lead Guideline	Removal prior to renovation/demolition activities in accordance with EACC's Lead Guideline as a: Class 1 Operation
Potentially Concealed Lead	Concealed on Sanitary/Waste Lines	Lead Packed Pipe Gaskets	None	Invasive inspection prior to renovation or demolition activities. If confirmed present, removal in accordance with EACC's Lead Guideline as a: Class 1 Operation
Mercury	Throughout Interior of Building in Light Fixtures	Fluorescent Light Tubes in Light Fixtures	None	Intact removal and storage with no on-site crushing and disposal of materials to a licensed facility
Silica	Throughout Interior and Exterior of Building	Concrete, Concrete Block Walls	None	Conduct any work during renovation, demolition activities in accordance with the Ministry of Labour Guideline Silica on Construction Projects
Potentials Concealed PCBs	Light Fixtures Throughout	Fluorescent Light Ballasts in Light Fixtures	SOR/2008-273, the PCB Regulations, permits continued use of in-service PCB-containing light ballasts until the end of service life or until December 31, 2025	Assess Each Ballast Upon Removal From Service Appropriate storage and disposal of any PCB-containing ballasts in accordance with SOR/2008-273
ODS	Rooftops, and Classrooms	Rooftop Air Conditioning Units, Window Mounted Air Conditioning Units	None	Prior to the removal and disposal of equipment suspected of containing ODS, a licensed technician should be retained to drain and tag the equipment in a manner authorized under O. Reg. 463/10

Notes:

- 1) A copy of this report should be provided to all prospective contractors prior to quotation, in accordance with Section 30 of the Occupational Health and Safety Act.
- 2) Recommended actions are the minimum required actions, as prescribed by the appropriate Acts, regulations, guidelines, standards, codes and general best practice measures. Prior to demolition, the Contractor may choose to alter the approach and combine or break out sections of work. This is acceptable provided that the appropriate Acts, regulations, guidelines, standards and codes are followed and afford protection for the health and safety of workers, occupants and the public that is at least equal to the protection that would be provided by complying with the minimum requirements.
- 3) All waste generated is subject to characterization and disposal in accordance with Ontario Regulation 347.

Appendix B

Laboratory Certificates of Analysis

Certificate of Analysis

MTE Consultants Inc. (Burlington)

1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8
Attn: Gavin Oakes

Client PO:

Project: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

Custody:

Report Date: 14-Mar-2023

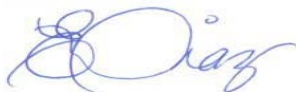
Order Date: 8-Mar-2023

Order #: 2310223

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

Parcel ID	Client ID
2310223-01	S01A - Aircell Pipe Insulation
2310223-02	S01B - Aircell Pipe Insulation
2310223-03	S01C - Aircell Pipe Insulation
2310223-04	S02A - Pipe Elbow Insulation
2310223-05	S02B - Pipe Elbow Insulation
2310223-06	S02C - Pipe Elbow Insulation
2310223-07	S03A - RSF - Green With Black/White Marble Streaks - Room 223
2310223-08	S03B - RSF - Green With Black/White Marble Streaks - Room 223
2310223-09	S03C - RSF - Green With Black/White Marble Streaks - Room 223
2310223-10	S04A - RSF - Peach
2310223-11	S04A - RSF - Peach
2310223-12	S04B - RSF - Peach
2310223-13	S04B - RSF - Peach
2310223-14	S04C - RSF - Peach
2310223-15	S04C - RSF - Peach
2310223-16	S05A - VFT - Beige With White Streak - Room 221 A/B
2310223-17	S05A - VFT - Beige With White Streak - Room 221 A/B
2310223-18	S05B - VFT - Beige With White Streak - Room 221 A/B
2310223-19	S05B - VFT - Beige With White Streak - Room 221 A/B
2310223-20	S05C - VFT - Beige With White Streak - Room 221 A/B
2310223-21	S05C - VFT - Beige With White Streak - Room 221 A/B
2310223-22	S06A - VFT - Beige With Orange Streak - Room 218
2310223-23	S06A - VFT - Beige With Orange Streak - Room 218
2310223-24	S06B - VFT - Beige With Orange Streak - Room 218
2310223-25	S06B - VFT - Beige With Orange Streak - Room 218
2310223-26	S06C - VFT - Beige With Orange Streak - Room 218

Approved By:



Emma Diaz

Senior Analyst

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Certificate of Analysis

Report Date: 14-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

2310223-27	S06C - VFT - Beige With Orange Streak - Room 218
2310223-28	S07A - VFT - Grey With Peach Fleck - Room 205/206
2310223-29.1	S07A - VFT - Grey With Peach Fleck - Room 205/206
2310223-29.2	S07A - VFT - Grey With Peach Fleck - Room 205/206
2310223-30	S07B - VFT - Grey With Peach Fleck - Room 205/206
2310223-31	S07B - VFT - Grey With Peach Fleck - Room 205/206
2310223-32.1	S07C - VFT - Grey With Peach Fleck - Room 205/206
2310223-32.2	S07C - VFT - Grey With Peach Fleck - Room 205/206
2310223-33	S07C - VFT - Grey With Peach Fleck - Room 205/206
2310223-34	S08A - RSF - Brown - Room 213
2310223-35	S08A - RSF - Brown - Room 213
2310223-36	S08B - RSF - Brown - Room 213
2310223-37	S08B - RSF - Brown - Room 213
2310223-38	S08C - RSF - Brown - Room 213
2310223-39	S08C - RSF - Brown - Room 213
2310223-40	S09A - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-41.1	S09A - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-41.2	S09A - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-42	S09B - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-43.1	S09B - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-43.2	S09B - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-44	S09C - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-45.1	S09C - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-45.2	S09C - VFT - Beige With White and Brown Streaks - Stairwell and Halls
2310223-46	S10A - VFT -Grey With White Streak - Room 309/305/303
2310223-47	S10A - VFT -Grey With White Streak - Room 309/305/303
2310223-48	S10B - VFT -Grey With White Streak - Room 309/305/303
2310223-49	S10B - VFT -Grey With White Streak - Room 309/305/303
2310223-50	S10C - VFT -Grey With White Streak - Room 309/305/303
2310223-51	S10C - VFT -Grey With White Streak - Room 309/305/303
2310223-52	S11A - VFT - White With Brown Streak - Room 302/405
2310223-53	S11A - VFT - White With Brown Streak - Room 302/405
2310223-54	S11B - VFT - White With Brown Streak - Room 302/405
2310223-55	S11B - VFT - White With Brown Streak - Room 302/405
2310223-56	S11C - VFT - White With Brown Streak - Room 302/405
2310223-57	S11C - VFT - White With Brown Streak - Room 302/405
2310223-58	S12A - Pipe Elbow Insulation - Room 311
2310223-59	S12B - Pipe Elbow Insulation - Room 311
2310223-60	S12C - Pipe Elbow Insulation - Room 311
2310223-61	S13A - VFT - Beige W/Red Stripe - Room 408
2310223-62	S13A - VFT - Beige W/Red Stripe - Room 408
2310223-63	S13B - VFT - Beige W/Red Stripe - Room 408
2310223-64	S13B - VFT - Beige W/Red Stripe - Room 408
2310223-65	S13C - VFT - Beige W/Red Stripe - Room 408

Certificate of Analysis

Report Date: 14-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

2310223-66	S13C - VFT - Beige W/Red Stripe - Room 408
2310223-67	S14A - CT - Large Fissure Random Pinhole - Stairwell
2310223-68	S14B - CT - Large Fissure Random Pinhole - Stairwell
2310223-69	S14C - CT - Large Fissure Random Pinhole - Stairwell
2310223-70	S15A - VFT - White With Black Stripe - Room 403
2310223-71	S15A - VFT - White With Black Stripe - Room 403
2310223-72	S15B - VFT - White With Black Stripe - Room 403
2310223-73	S15B - VFT - White With Black Stripe - Room 403
2310223-74	S15C - VFT - White With Black Stripe - Room 403
2310223-75	S15C - VFT - White With Black Stripe - Room 403
2310223-77	S17A - VFT - Pink With Fleck
2310223-78	S17A - VFT - Pink With Fleck
2310223-79	S17B - VFT - Pink With Fleck
2310223-80	S17B - VFT - Pink With Fleck
2310223-81	S17C - VFT - Pink With Fleck
2310223-82	S17C - VFT - Pink With Fleck
2310223-83	S18A - VFT - Green With Fleck
2310223-84	S18A - VFT - Green With Fleck
2310223-85	S18B - VFT - Green With Fleck
2310223-86	S18B - VFT - Green With Fleck
2310223-87	S18C - VFT - Green With Fleck
2310223-88	S18C - VFT - Green With Fleck
2310223-89	S19A - Brick Mortar
2310223-90	S19B - Brick Mortar
2310223-91.1	S19C - Brick Mortar
2310223-91.2	S19C - Brick Mortar
2310223-94	S20A - Plaster - Room 214
2310223-95	S20B - Plaster - Room 214
2310223-96	S20C - Plaster - Room 214
2310223-97	S21A - Drywall - Gymnasium Ceiling
2310223-98	S21B - Drywall - Gymnasium Ceiling
2310223-99	S21C - Drywall - Gymnasium Ceiling
2310223-AA	S22A - VFT - White With Grey and Brown Fleck
2310223-AB	S22A - VFT - White With Grey and Brown Fleck
2310223-AC	S22B - VFT - White With Grey and Brown Fleck
2310223-AD	S22B - VFT - White With Grey and Brown Fleck
2310223-AE	S22C - VFT - White With Grey and Brown Fleck
2310223-AF	S22C - VFT - White With Grey and Brown Fleck
2310223-AG	S23A - Plaster
2310223-AH	S23B - Plaster
2310223-AI	S23C - Plaster
2310223-AJ	S23D - Plaster
2310223-AK	S23E - Plaster
2310223-AL	S23F - Plaster

Certificate of Analysis

Report Date: 14-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

2310223-AM.1	S23G - Plaster
2310223-AM.2	S23G - Plaster
2310223-AN	S24A - Vapour Barrier - Roof 1
2310223-AO	S24B - Vapour Barrier - Roof 1
2310223-AP	S24C - Vapour Barrier - Roof 1
2310223-AQ	S25A - Membrane - Roof 1
2310223-AR	S25B - Membrane - Roof 1
2310223-AS	S25C - Membrane - Roof 1
2310223-AT	S26A - Membrane - Roof 2
2310223-AU	S26B - Membrane - Roof 2
2310223-AV	S26C - Membrane - Roof 2
2310223-AW	S27A - Vapour Barrier - Roof 3
2310223-AX	S27B - Vapour Barrier - Roof 3
2310223-AY	S27C - Vapour Barrier - Roof 3
2310223-AZ	S28A - Membrane - Roof 3
2310223-BA	S28B - Membrane - Roof 3
2310223-BB	S28C - Membrane - Roof 3
2310223-BC	S29A - Vapour Barrier - Roof 4
2310223-BD	S29B - Vapour Barrier - Roof 4
2310223-BE	S29C - Vapour Barrier - Roof 4
2310223-BF	S30A - Membrane - Roof 4
2310223-BG	S30B - Membrane - Roof 4
2310223-BH	S30C - Membrane - Roof 4
2310223-BI	S31A - Grey Sealant - Roof 2
2310223-BJ	S31B - Grey Sealant - Roof 2
2310223-BK	S31C - Grey Sealant - Roof 2
2310223-BL	S32A - Grey/Black Sealant - Roof 1
2310223-BM	S32B - Grey/Black Sealant - Roof 1
2310223-BN	S32C - Grey/Black Sealant - Roof 1
2310223-BO	S33A - Light Grey Sealant - Exterior
2310223-BP	S33B - Light Grey Sealant - Exterior
2310223-BQ	S33C - Light Grey Sealant - Exterior

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 14-Mar-2023
 Order Date: 8-Mar-2023

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-01	03-Mar-23	Beige	Insulation	Yes	Client ID: S01A - Aircell Pipe Insulation	
					Chrysotile	60
					Cellulose	10
					Non-Fibers	30
2310223-02	03-Mar-23	Beige	Insulation		Client ID: S01B - Aircell Pipe Insulation	
					not analyzed, positive stop	
2310223-03	03-Mar-23	Beige	Insulation		Client ID: S01C - Aircell Pipe Insulation	
					not analyzed, positive stop	
2310223-04	03-Mar-23	Grey	Insulation	Yes	Client ID: S02A - Pipe Elbow Insulation	
					Chrysotile	70
					Non-Fibers	30
2310223-05	03-Mar-23	Grey	Insulation		Client ID: S02B - Pipe Elbow Insulation	
					not analyzed, positive stop	
2310223-06	03-Mar-23	Grey	Insulation		Client ID: S02C - Pipe Elbow Insulation	
					not analyzed, positive stop	
2310223-07	03-Mar-23	Green	Flooring	No	Client ID: S03A - RSF - Green With Black/White Marble Streaks - Room 223	
					Non-Fibers	100
2310223-08	03-Mar-23	Green	Flooring	No	Client ID: S03B - RSF - Green With Black/White Marble Streaks - Room 223	
					Non-Fibers	100
2310223-09	03-Mar-23	Green	Flooring	No	Client ID: S03C - RSF - Green With Black/White Marble Streaks - Room 223	
					Non-Fibers	100
2310223-10	03-Mar-23	Brown	Flooring	No	Client ID: S04A - RSF - Peach	
					Non-Fibers	100

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-11	03-Mar-23	Brown	Paper Backing	No	Client ID: S04A - RSF - Peach	
					Non-Fibers	20
					Other fibers	80
2310223-12	03-Mar-23	Brown	Flooring	No	Client ID: S04B - RSF - Peach	
					Non-Fibers	100
2310223-13	03-Mar-23	Brown	Paper Backing	No	Client ID: S04B - RSF - Peach	
					Non-Fibers	20
					Other fibers	80
2310223-14	03-Mar-23	Brown	Flooring	No	Client ID: S04C - RSF - Peach	
					Non-Fibers	100
2310223-15	03-Mar-23	Brown	Paper Backing	No	Client ID: S04C - RSF - Peach	
					Non-Fibers	20
					Other fibers	80
2310223-16	03-Mar-23	Beige	Tile	No	Client ID: S05A - VFT - Beige With White Streak - Room 221 A/B	
					Non-Fibers	100
2310223-17	03-Mar-23	Black	Mastic	No	Client ID: S05A - VFT - Beige With White Streak - Room 221 A/B	
					Non-Fibers	100
2310223-18	03-Mar-23	Beige	Tile	No	Client ID: S05B - VFT - Beige With White Streak - Room 221 A/B	
					Non-Fibers	100
2310223-19	03-Mar-23	Black	Mastic	No	Client ID: S05B - VFT - Beige With White Streak - Room 221 A/B	
					Non-Fibers	100
2310223-20	03-Mar-23	Beige	Tile	No	Client ID: S05C - VFT - Beige With White Streak - Room 221 A/B	
					Non-Fibers	100
2310223-21	03-Mar-23	Black	Mastic	No	Client ID: S05C - VFT - Beige With White Streak - Room 221 A/B	
					Non-Fibers	100

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-22	03-Mar-23	Beige	Tile	Yes	Client ID: S06A - VFT - Beige With Orange Streak - Room 218	
					Chrysotile	1
					Non-Fibers	99
2310223-23	03-Mar-23	Black	Mastic	No	Client ID: S06A - VFT - Beige With Orange Streak - Room 218	
					Non-Fibers	100
2310223-24	03-Mar-23	Beige	Tile		Client ID: S06B - VFT - Beige With Orange Streak - Room 218	
					not analyzed, positive stop	
2310223-25	03-Mar-23	Black	Mastic	No	Client ID: S06B - VFT - Beige With Orange Streak - Room 218	
					Non-Fibers	100
2310223-26	03-Mar-23	Red	Tile		Client ID: S06C - VFT - Beige With Orange Streak - Room 218	
					not analyzed, positive stop	
2310223-27	03-Mar-23	Black	Mastic	No	Client ID: S06C - VFT - Beige With Orange Streak - Room 218	
					Non-Fibers	100
2310223-28	03-Mar-23	Grey	Tile	No	Client ID: S07A - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-29.1	03-Mar-23	Black	Mastic	No	Client ID: S07A - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-29.2	03-Mar-23	Yellow	Mastic	No	Client ID: S07A - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-30	03-Mar-23	Orange	Tile	No	Client ID: S07B - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-31	03-Mar-23	Yellow	Mastic	No	Client ID: S07B - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-32.1	03-Mar-23	Grey	Tile	No	Client ID: S07C - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-32.2	03-Mar-23	Orange	Tile	No	Client ID: S07C - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-33	03-Mar-23	Yellow	Mastic	No	Client ID: S07C - VFT - Grey With Peach Fleck - Room 205/206	
					Non-Fibers	100
2310223-34	03-Mar-23	Brown	Flooring	No	Client ID: S08A - RSF - Brown - Room 213	
					Cellulose	20
					Non-Fibers	80
2310223-35	03-Mar-23	Black	Paper Backing	Yes	Client ID: S08A - RSF - Brown - Room 213	
						[AS-PRE]
					[ASTrc]Chrysotile	<MDL
					Cellulose	70
2310223-36	03-Mar-23	Brown	Flooring	No	Client ID: S08B - RSF - Brown - Room 213	
					Cellulose	20
					Non-Fibers	80
2310223-37	03-Mar-23	Black	Paper Backing	Yes	Client ID: S08B - RSF - Brown - Room 213	
						[AS-PRE]
					[ASTrc]Chrysotile	<MDL
					Cellulose	70
2310223-38	03-Mar-23	Brown	Flooring	No	Client ID: S08C - RSF - Brown - Room 213	
					Cellulose	20
					Non-Fibers	80
2310223-39	03-Mar-23	Black	Paper Backing	Yes	Client ID: S08C - RSF - Brown - Room 213	
						[AS-PRE]
					[ASTrc]Chrysotile	<MDL
					Cellulose	70
2310223-40	03-Mar-23	Beige	Tile	No	Client ID: S09A - VFT - Beige With White and Brown Streaks - Stairwell and Halls	
					Non-Fibers	100

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-41.1	03-Mar-23	Black	Mastic	No	Client ID: S09A - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-41.2	03-Mar-23	Yellow	Mastic	No	Client ID: S09A - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-42	03-Mar-23	Beige	Tile	No	Client ID: S09B - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-43.1	03-Mar-23	Black	Mastic	No	Client ID: S09B - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-43.2	03-Mar-23	Yellow	Mastic	No	Client ID: S09B - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-44	03-Mar-23	Beige	Tile	No	Client ID: S09C - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-45.1	03-Mar-23	Black	Mastic	No	Client ID: S09C - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-45.2	03-Mar-23	Yellow	Mastic	No	Client ID: S09C - VFT - Beige With White and Brown Streaks - Stairwell and Halls Non-Fibers	100
2310223-46	03-Mar-23	Grey	Tile	No	Client ID: S10A - VFT -Grey With White Streak - Room 309/305/303 Non-Fibers	100
2310223-47	03-Mar-23	Yellow	Mastic	No	Client ID: S10A - VFT -Grey With White Streak - Room 309/305/303 Non-Fibers	100
2310223-48	03-Mar-23	Grey	Tile	No	Client ID: S10B - VFT -Grey With White Streak - Room 309/305/303 Non-Fibers	100
2310223-49	03-Mar-23	Yellow	Mastic	No	Client ID: S10B - VFT -Grey With White Streak - Room 309/305/303 Non-Fibers	100

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-50	03-Mar-23	Grey	Tile	No	Client ID: S10C - VFT -Grey With White Streak - Room 309/305/303 Non-Fibers	100
2310223-51	03-Mar-23	Yellow	Mastic	No	Client ID: S10C - VFT -Grey With White Streak - Room 309/305/303 Non-Fibers	100
2310223-52	03-Mar-23	White	Tile	No	Client ID: S11A - VFT - White With Brown Streak - Room 302/405 Non-Fibers	100
2310223-53	03-Mar-23	Black	Mastic	No	Client ID: S11A - VFT - White With Brown Streak - Room 302/405 Non-Fibers	100
2310223-54	03-Mar-23	White	Tile	No	Client ID: S11B - VFT - White With Brown Streak - Room 302/405 Non-Fibers	100
2310223-55	03-Mar-23	Black	Mastic	No	Client ID: S11B - VFT - White With Brown Streak - Room 302/405 Non-Fibers	100
2310223-56	03-Mar-23	White	Tile	No	Client ID: S11C - VFT - White With Brown Streak - Room 302/405 Non-Fibers	100
2310223-57	03-Mar-23	Black	Mastic	No	Client ID: S11C - VFT - White With Brown Streak - Room 302/405 Non-Fibers	100
2310223-58	03-Mar-23	Off-white	Insulation	No	Client ID: S12A - Pipe Elbow Insulation - Room 311 Cellulose MMVF Non-Fibers	10 5 85
2310223-59	03-Mar-23	Off-white	Insulation	No	Client ID: S12B - Pipe Elbow Insulation - Room 311 Cellulose MMVF Non-Fibers	10 5 85

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content	
2310223-60	03-Mar-23	Off-white	Insulation	No	Client ID: S12C - Pipe Elbow Insulation - Room 311		
					Cellulose	10	
					MMVF	5	
						Non-Fibers	85
2310223-61	03-Mar-23	Beige	Tile	No	Client ID: S13A - VFT - Beige W/Red Stripe - Room 408		
					Non-Fibers	100	
2310223-62	03-Mar-23	Black	Mastic	No	Client ID: S13A - VFT - Beige W/Red Stripe - Room 408		
					Non-Fibers	100	
2310223-63	03-Mar-23	Beige	Tile	No	Client ID: S13B - VFT - Beige W/Red Stripe - Room 408		
					Non-Fibers	100	
2310223-64	03-Mar-23	Black	Mastic	No	Client ID: S13B - VFT - Beige W/Red Stripe - Room 408		
					Non-Fibers	100	
2310223-65	03-Mar-23	Beige	Tile	No	Client ID: S13C - VFT - Beige W/Red Stripe - Room 408		
					Non-Fibers	100	
2310223-66	03-Mar-23	Black	Mastic	No	Client ID: S13C - VFT - Beige W/Red Stripe - Room 408		
					Non-Fibers	100	
2310223-67	03-Mar-23	Grey	Ceiling Tile	No	Client ID: S14A - CT - Large Fissure Random Pinhole - Stairwell		
					Cellulose	40	
					MMVF	30	
						Non-Fibers	30
2310223-68	03-Mar-23	Grey	Ceiling Tile	No	Client ID: S14B - CT - Large Fissure Random Pinhole - Stairwell		
					Cellulose	40	
					MMVF	30	
						Non-Fibers	30

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-69	03-Mar-23	Grey	Ceiling Tile	No	Client ID: S14C - CT - Large Fissure Random Pinhole - Stairwell	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2310223-70	03-Mar-23	White	Tile	No	Client ID: S15A - VFT - White With Black Stripe - Room 403	
					Non-Fibers	100
2310223-71	03-Mar-23	Black	Mastic	No	Client ID: S15A - VFT - White With Black Stripe - Room 403	
					Non-Fibers	100
2310223-72	03-Mar-23	White	Tile	No	Client ID: S15B - VFT - White With Black Stripe - Room 403	
					Non-Fibers	100
2310223-73	03-Mar-23	Black	Mastic	No	Client ID: S15B - VFT - White With Black Stripe - Room 403	
					Non-Fibers	100
2310223-74	03-Mar-23	White	Tile	No	Client ID: S15C - VFT - White With Black Stripe - Room 403	
					Non-Fibers	100
2310223-75	03-Mar-23	Black	Mastic	No	Client ID: S15C - VFT - White With Black Stripe - Room 403	
					Non-Fibers	100
2310223-77	03-Mar-23	Pink	Tile	No	Client ID: S17A - VFT - Pink With Fleck	
					Non-Fibers	100
2310223-78	03-Mar-23	Black	Mastic	No	Client ID: S17A - VFT - Pink With Fleck	
					Non-Fibers	100
2310223-79	03-Mar-23	Pink	Tile	No	Client ID: S17B - VFT - Pink With Fleck	
					Non-Fibers	100
2310223-80	03-Mar-23	Black	Mastic	No	Client ID: S17B - VFT - Pink With Fleck	
					Non-Fibers	100

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-81	03-Mar-23	Pink	Tile	No	Client ID: S17C - VFT - Pink With Fleck Non-Fibers	100
2310223-82	03-Mar-23	Black	Mastic	No	Client ID: S17C - VFT - Pink With Fleck Non-Fibers	100
2310223-83	03-Mar-23	Green	Tile	No	Client ID: S18A - VFT - Green With Fleck Non-Fibers	100
2310223-84	03-Mar-23	Black	Mastic	No	Client ID: S18A - VFT - Green With Fleck Non-Fibers	100
2310223-85	03-Mar-23	Green	Tile	No	Client ID: S18B - VFT - Green With Fleck Non-Fibers	100
2310223-86	03-Mar-23	Black	Mastic	No	Client ID: S18B - VFT - Green With Fleck Non-Fibers	100
2310223-87	03-Mar-23	Green	Tile	No	Client ID: S18C - VFT - Green With Fleck Non-Fibers	100
2310223-88	03-Mar-23	Black	Mastic	No	Client ID: S18C - VFT - Green With Fleck Non-Fibers	100
2310223-89	03-Mar-23	Grey	Mortar	No	Client ID: S19A - Brick Mortar Non-Fibers	100
2310223-90	03-Mar-23	Grey	Mortar	No	Client ID: S19B - Brick Mortar Non-Fibers	100
2310223-91.1	03-Mar-23	Grey	Mortar	No	Client ID: S19C - Brick Mortar Non-Fibers	100
2310223-91.2	03-Mar-23	Red	Brick	No	Client ID: S19C - Brick Mortar Non-Fibers	100

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-94	03-Mar-23	Grey	Plaster	No	Client ID: S20A - Plaster - Room 214	
					Non-Fibers	100
2310223-95	03-Mar-23	Grey	Plaster	No	Client ID: S20B - Plaster - Room 214	
					Non-Fibers	100
2310223-96	03-Mar-23	Grey	Plaster	No	Client ID: S20C - Plaster - Room 214	
					Non-Fibers	100
2310223-97	03-Mar-23	White	DJC	No	Client ID: S21A - Drywall - Gymnasium Ceiling	
					Non-Fibers	100
2310223-98	03-Mar-23	White	DJC	No	Client ID: S21B - Drywall - Gymnasium Ceiling	
					Non-Fibers	100
2310223-99	03-Mar-23	White	DJC	No	Client ID: S21C - Drywall - Gymnasium Ceiling	
					Non-Fibers	100
2310223-AA	03-Mar-23	White	Tile	No	Client ID: S22A - VFT - White With Grey and Brown Fleck	
					Non-Fibers	100
2310223-AB	03-Mar-23	Yellow	Mastic	No	Client ID: S22A - VFT - White With Grey and Brown Fleck	
					[AS-LW] Cellulose	5
					Non-Fibers	95
2310223-AC	03-Mar-23	White	Tile	No	Client ID: S22B - VFT - White With Grey and Brown Fleck	
					Non-Fibers	100
2310223-AD	03-Mar-23	Yellow	Mastic	No	Client ID: S22B - VFT - White With Grey and Brown Fleck	
					[AS-LW] Cellulose	5
					Non-Fibers	95
2310223-AE	03-Mar-23	White	Tile	No	Client ID: S22C - VFT - White With Grey and Brown Fleck	
					Non-Fibers	100

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-AF	03-Mar-23	Yellow	Mastic	No	Client ID: S22C - VFT - White With Grey and Brown Fleck	[AS-LW]
					Cellulose	5
					Non-Fibers	95
2310223-AG	03-Mar-23	Grey	Plaster	No	Client ID: S23A - Plaster	
					Non-Fibers	100
2310223-AH	03-Mar-23	Grey	Plaster	No	Client ID: S23B - Plaster	
					Non-Fibers	100
2310223-AI	03-Mar-23	Grey	Plaster	No	Client ID: S23C - Plaster	
					Non-Fibers	100
2310223-AJ	03-Mar-23	Grey	Plaster	No	Client ID: S23D - Plaster	
					Non-Fibers	100
2310223-AK	03-Mar-23	Grey	Plaster	No	Client ID: S23E - Plaster	
					Non-Fibers	100
2310223-AL	03-Mar-23	Grey	Plaster	No	Client ID: S23F - Plaster	
					Non-Fibers	100
2310223-AM.1	03-Mar-23	Grey	Plaster	No	Client ID: S23G - Plaster	
					Non-Fibers	100
2310223-AM.2	03-Mar-23	White	Plaster	No	Client ID: S23G - Plaster	
					Non-Fibers	100
2310223-AN	03-Mar-23	Black	Vapour barrier	No	Client ID: S24A - Vapour Barrier - Roof 1	[AS-PRE]
					Cellulose	40
					MMVF	<MDL
					Non-Fibers	60

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-AO	03-Mar-23	Black	Vapour barrier	No	Client ID: S24B - Vapour Barrier - Roof 1	
						[AS-PRE]
					Cellulose	40
					MMVF	<MDL
					Non-Fibers	60
2310223-AP	03-Mar-23	Black	Vapour barrier	No	Client ID: S24C - Vapour Barrier - Roof 1	
						[AS-PRE]
					Cellulose	40
					MMVF	<MDL
					Non-Fibers	60
2310223-AQ	03-Mar-23	Black	Membrane	No	Client ID: S25A - Membrane - Roof 1	
						[AS-PRE]
					MMVF	11
					Non-Fibers	89
2310223-AR	03-Mar-23	Black	Membrane	No	Client ID: S25B - Membrane - Roof 1	
						[AS-PRE]
					MMVF	11
					Non-Fibers	89
2310223-AS	03-Mar-23	Black	Membrane	No	Client ID: S25C - Membrane - Roof 1	
						[AS-PRE]
					MMVF	7
					Non-Fibers	93
2310223-AT	03-Mar-23	Black	Membrane	No	Client ID: S26A - Membrane - Roof 2	
						[AS-PRE]
					MMVF	10
					Non-Fibers	90
2310223-AU	03-Mar-23	Black	Membrane	No	Client ID: S26B - Membrane - Roof 2	
						[AS-PRE]
					MMVF	6.5
					Non-Fibers	93.5
2310223-AV	03-Mar-23	Black	Membrane	No	Client ID: S26C - Membrane - Roof 2	
						[AS-PRE]
					MMVF	8
					Non-Fibers	92

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Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-AW	03-Mar-23	Black/Brown	Vapour barrier	No	Client ID: S27A - Vapour Barrier - Roof 3	[AS-PRE]
					Cellulose	20
					MMVF	3
					Non-Fibers	77
2310223-AX	03-Mar-23	Black/Brown	Vapour barrier	No	Client ID: S27B - Vapour Barrier - Roof 3	[AS-PRE]
					Cellulose	20
					MMVF	8
					Non-Fibers	72
2310223-AY	03-Mar-23	Black/Brown	Vapour barrier	No	Client ID: S27C - Vapour Barrier - Roof 3	[AS-PRE]
					Cellulose	20
					MMVF	8
					Non-Fibers	72
2310223-AZ	03-Mar-23	Black	Membrane	No	Client ID: S28A - Membrane - Roof 3	[AS-PRE]
					Cellulose	3
					MMVF	5
					Non-Fibers	92
2310223-BA	03-Mar-23	Black	Membrane	No	Client ID: S28B - Membrane - Roof 3	[AS-PRE]
					Cellulose	3
					MMVF	9
					Non-Fibers	88
2310223-BB	03-Mar-23	Black	Membrane	Yes	Client ID: S28C - Membrane - Roof 3	[AS-PRE, AS-PT]
					[ASTrc]Chrysotile	<MDL
					Cellulose	3
					MMVF	5
					Non-Fibers	92
2310223-BC	03-Mar-23	Brown/black	Vapour barrier	No	Client ID: S29A - Vapour Barrier - Roof 4	[AS-PRE]
					Cellulose	90
					Non-Fibers	10

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 14-Mar-2023
 Order Date: 8-Mar-2023

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content						
2310223-BD	03-Mar-23	Brown/black	Vapour barrier	No	Client ID: S29B - Vapour Barrier - Roof 4	[AS-PRE]						
					Cellulose	90						
					Non-Fibers	10						
2310223-BE	03-Mar-23	Brown/black	Vapour barrier	No	Client ID: S29C - Vapour Barrier - Roof 4	[AS-PRE]						
					Cellulose	90						
					Non-Fibers	10						
2310223-BF	03-Mar-23	Black/Brown	Membrane	No	Client ID: S30A - Membrane - Roof 4	[AS-PRE]						
					Cellulose	5						
					MMVF	3						
2310223-BF	03-Mar-23	Black/Brown	Membrane	No		Non-Fibers	92					
						2310223-BG	03-Mar-23	Black/Brown	Membrane	No	Client ID: S30B - Membrane - Roof 4	[AS-PRE]
											Cellulose	5
MMVF	4											
2310223-BG	03-Mar-23	Black/Brown	Membrane	No		Non-Fibers	91					
						2310223-BH	03-Mar-23	Black/Brown	Membrane	No	Client ID: S30C - Membrane - Roof 4	[AS-PRE]
											Cellulose	5
MMVF	3											
2310223-BH	03-Mar-23	Black/Brown	Membrane	No		Non-Fibers	92					
						2310223-BI	03-Mar-23	Grey	Sealant	No	Client ID: S31A - Grey Sealant - Roof 2	[AS-PRE]
											Non-Fibers	100
2310223-BJ	03-Mar-23	Grey	Sealant	No	Client ID: S31B - Grey Sealant - Roof 2						[AS-PRE]	
					Non-Fibers	100						
					2310223-BK	03-Mar-23	Grey	Sealant	No	Client ID: S31C - Grey Sealant - Roof 2	[AS-PRE]	
Non-Fibers	100											
2310223-BL	03-Mar-23	Grey/Black	Sealant	No						Client ID: S32A - Grey/Black Sealant - Roof 1	[AS-PRE]	
					Non-Fibers	100						

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 14-Mar-2023
 Order Date: 8-Mar-2023

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

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

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2310223-BM	03-Mar-23	Grey/Black	Sealant	No	Client ID: S32B - Grey/Black Sealant - Roof 1 [AS-PRE] Non-Fibers	100
2310223-BN	03-Mar-23	Grey/Black	Sealant	No	Client ID: S32C - Grey/Black Sealant - Roof 1 [AS-PRE] Non-Fibers	100
2310223-BO	03-Mar-23	Light Grey	Sealant	No	Client ID: S33A - Light Grey Sealant - Exterior Non-Fibers	100
2310223-BP	03-Mar-23	Light Grey	Sealant	No	Client ID: S33B - Light Grey Sealant - Exterior Non-Fibers	100
2310223-BQ	03-Mar-23	Light Grey	Sealant	No	Client ID: S33C - Light Grey Sealant - Exterior Non-Fibers	100

* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool
 ** Analytes in bold indicate asbestos mineral content.

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	Analysis Date
Asbestos, PLM Visual Estimation	AppE to SubE of 40CFR Part763 and EPA/600/R-93/116	1 - Mississauga	CALA 3762	13-Mar-23

Mississauga Lab: 15 - 6800 Kitimat Rd Mississauga, Ontario, L5N 5M1

Qualifier Notes

- Sample Qualifiers :
- AS-LW: Low sample volume
 - 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.

Certificate of Analysis

Report Date: 14-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100 Mary Hopkins HVAC & Ceiling Replacement

Work Order Revisions | Comments

None



Client Name: MTE Consultants	Project Reference: 53042-100 - Mary Hopkins HVAC & Ceiling Replacement
Contact Name: Gavin Oakes; Aaron Rows	Quote #: MTE Standing Offer
Address: 1016 Sutton Drive, Unit A Burlington, ON L7L 6B8	PO #:
	Email Address: goakes@mte85.com arows@mte85.com
Telephone: 905-639-2552	

Turnaround Time:

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

Date Required: March 14/23

ASBESTOS & MOLD ANALYSIS

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

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

Parcel Order Number:

2310223

Sample ID		Sampling Date	Air Volume (L)	Analysis Required	Asbestos - Bulk	
					Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	S01 A-C - Aircell Pipe Insulation	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
2	S02 A-C - Pipe Elbow Insulation	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
3	S03 A-C - RSF - Grenn with black/white Marble streaks - Room 223	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
4	S04 A-C - RSF - Peach	Mar 3/23	-	PLM	Flooring and paper backing	<input checked="" type="checkbox"/>
5	S05 A-C - VFT - Beige with White streak - Room 221 A/B	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
6	S06 A-C - VFT - Beige with Orange streak - Room 218	Mar 3/23	-	PLM	Tile and mastic	<input checked="" type="checkbox"/>
7	S07 A-C - VFT - Grey with Peach Fleck - Room 205/206	Mar 3/23	-	PLM	Tile and mastic	<input checked="" type="checkbox"/>
8	S08 A-C - RSF - Brown - Room 213	Mar 3/23	-	PLM	Flooring and paper backing	<input checked="" type="checkbox"/>
9	S09 A-C - VFT - Beige with white and brown streaks - Stairwell and Halls	Mar 3/23	-	PLM	Tile and mastic	<input checked="" type="checkbox"/>
10	S10 A-C - VFT - Grey with white streak - Room 309/305/303	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
11	S11 A-C - VFT - White with Brown streak - Room 302/405	Mar 3/23	-	PLM	Tile and mastic	<input checked="" type="checkbox"/>
12	S12 A-C - Pipe Elbow Insulation - Room 311	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>

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

Comments:

Method of Delivery:

Paracel

Relinquished By (Sign):	Received at Depot:	Received at Lab: <u>GR</u>	Verified By: <u>GR</u>
Relinquished By (Print):	Date/Time:	Date/Time: <u>Mar 8/23</u>	Date/Time: <u>Mar 8/23</u>

930

11-19



Client Name: MTE Consultants	Project Reference: 53042-100 - Mary Hopkins HVAC & Ceiling Replacement
Contact Name: Gavin Oakes; Aaron Rows	Quote #: MTE Standing Offer
Address: 1016 Sutton Drive, Unit A Burlington, ON L7L 6B8	PO #:
Telephone: 905-639-2552	Email Address: goakes@mte85.com arows@mte85.com

Turnaround Time:

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

Date Required: March 14/2023

ASBESTOS & MOLD ANALYSIS

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

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

Parcel Order Number:

2310223

Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Asbestos - Bulk	
				Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1 S13 A-C - VFT - Beige w/ Red Stripe - Room 408	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
2 S14 A-C - CT - Large Fissure Random Pinhole - Stairwell	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
3 S15 A-C - VFT - White with Black Stripe - Room 403	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
4 S16 - Sample Not Submitted	Mar 3/23	-	PLM	Sample Not Submitted	<input checked="" type="checkbox"/>
5 S17 A-C - VFT - Pink with Fleck	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
6 S18 A-C - VFT - Green with Fleck	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
7 S19 A-E - Brick mortar	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
8 S20 A-C - Plaster- Room 214	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
9 S21 A-C - Drywall - Gymnasium Ceiling	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
10 S22 A-C - VFT - White with Grey and Brown Fleck	Mar 3/23	-	PLM	Tile and Mastic	<input checked="" type="checkbox"/>
11 S23 A-G - Plaster	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>
12 S24 A-C - Vapour Barrier - Roof 1	Mar 3/23	-	PLM		<input checked="" type="checkbox"/>

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

Comments:

Method of Delivery: Hand Delivered

Relinquished By (Sign):	Received at Depot:	Received at Lab: <u>[Signature]</u>	Verified By: <u>[Signature]</u>
Relinquished By (Print):	Date/Time:	Date/Time: <u>Mar 8/23</u>	Date/Time: <u>Mar 8/23</u>

9:30

11:19



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

Chain of Custody
(Lab Use Only)

Page 3 of 3

Client Name: MTE Consultants	Project Reference: 53042-100 - Mary Hopkins HVAC & Ceiling Replacement
Contact Name: Gavin Oakes; Aaron Rows	Quote #: MTE Standing Offer
Address: 1016 Sutton Drive, Unit A Burlington, ON L7L 6B8	PO #:
	Email Address: goakes@mte85.com
Telephone: 905-639-2552	arows@mte85.com

Turnaround Time:

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

Date Required: March 14 / 2023

ASBESTOS & MOLD ANALYSIS

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

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

Parcel Order Number:

2310223

Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Asbestos - Bulk	
				Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1	S25 A-C - Membrane - Roof 1	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
2	S26 A-C - Membrane - Roof 2	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
3	S27 A-C - Vapour Barrier - Roof 3	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
4	S28 A-C - Membrane - Roof 3	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
5	S29 A-C - Vapour Barrier - Roof 4	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
6	S30 A-C - Membrane - Roof 4	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
7	S31 A-C - Grey Sealant - Roof 2	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
8	S32 A-C - Grey/Black Sealant - Roof 1	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
9	S33 A-C - Light Grey Sealant - Exterior	Mar 3/23	-	PLM	<input checked="" type="checkbox"/>
10					<input type="checkbox"/>
11					<input type="checkbox"/>
12					<input type="checkbox"/>

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

Comments:

Method of Delivery:

Insulation

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
		<u>[Signature]</u>	<u>[Signature]</u>
Relinquished By (Print):	Date/Time:	Date/Time: <u>Mar 8/23</u>	Date/Time: <u>Mar 8/23</u>

9-30

11.19

Certificate of Analysis

MTE Consultants Inc. (Burlington)

1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8
Attn: Gavin Oakes

Client PO:
Project: 53042-100 - Mary Hopkins HVAC Upgrades
Custody:

Report Date: 13-Mar-2023
Order Date: 8-Mar-2023

Order #: 2310204

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

Parcel ID	Client ID
2310204-01	LP01-Green-Boiler Room
2310204-02	LP02-White-Boiler Room
2310204-03	LP03-Beige-Throughout
2310204-04	LP04-Grey-Throughout
2310204-05	LP05-White-Learning Commons
2310204-06	LP06-Dark Grey-Basement Walls
2310204-07	LP07 - Grey-Basement Floor/Stairs
2310204-08	LP08-White-Basement Bath/StafRM
2310204-09	LP09-White-Exterior Base
2310204-10	LP10-Grey-Classrooms/Main office
2310204-11	LP11-White-Classrooms
2310204-12	LP12-Brown-Exterior

Approved By:



Mark Foto, M.Sc.
Lab Supervisor

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100 - Mary Hopkins HVAC Upgrades

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	10-Mar-23	13-Mar-23

Qualifier Notes:

Sample Qualifiers :

- 1 : Complete separation of paint from substrate not possible for this sample and a small amount of substrate has been included in the paint digestion.

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

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

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100 - Mary Hopkins HVAC Upgrades

Sample Results

Lead					Matrix: Paint	
Parcel ID	Client ID	Sample Date	Units	MDL	Result	
2310204-01	LP01-Green-Boiler Room	3-Mar-23	ug/g	5	<5	
2310204-02	LP02-White-Boiler Room	3-Mar-23	ug/g	5	31	
2310204-03	LP03-Beige-Throughout	3-Mar-23	ug/g	5	1050	
2310204-04	LP04-Grey-Throughout	3-Mar-23	ug/g	5	1100	
2310204-05	LP05-White-Learning Commons	3-Mar-23	ug/g	5	1570 [1]	
2310204-06	LP06-Dark Grey-Basement Walls	3-Mar-23	ug/g	5	7	
2310204-07	LP07 - Grey-Basement Floor/Stairs	3-Mar-23	ug/g	5	2720	
2310204-08	LP08-White-Basement Bath/StafRM	3-Mar-23	ug/g	5	1400	
2310204-09	LP09-White-Exterior Base	3-Mar-23	ug/g	5	14800 [1]	
2310204-10	LP10-Grey-Classrooms/Main office	3-Mar-23	ug/g	5	320	
2310204-11	LP11-White-Classrooms	3-Mar-23	ug/g	5	17	
2310204-12	LP12-Brown-Exterior	3-Mar-23	ug/g	5	13800	

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	5	ug/g						
Matrix Duplicate									
Lead	1060	5	ug/g	1050			0.89	50	
Matrix Spike									
Lead	97.7	5.00	ug/g	42.1	111	70-130			



Client Name: MTE Consultants	Project Ref: 53042-100 - Mary Hopkins HVAC Upgrades	Page <u>1</u> of <u>2</u>
Contact Name: Gavin Oakes; Aaron Rows	Quote #: MTE Standing Offer	Turnaround Time <input type="checkbox"/> 1 day <input type="checkbox"/> 3 day <input type="checkbox"/> 2 day <input checked="" type="checkbox"/> Regular Date Required: <u>March 11/2023</u>
Address: 1016 Sutton Drive, Unit A Burlington, ON L7L 6B8	PO #: E-mail: goakes@mte85.com	
Telephone: 905-639-2552	arows@mte85.com	

<input type="checkbox"/> REG 153/04 <input type="checkbox"/> REG 406/19 Other Regulation <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Med/Fine <input type="checkbox"/> REG 558 <input type="checkbox"/> PWQO <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> CCME <input type="checkbox"/> MISA <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> SU - Sani <input type="checkbox"/> SU - Storm <input type="checkbox"/> Table _____ For RSC: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other: _____ Mun: _____		Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)		Required Analysis																	
Sample ID/Location Name		Matrix	Air Volume	# of Containers	Sample Taken		Lead														
					Date	Time															
1	LP01 - Green - Boiler Room	P	-	1	Mar 3/23	10:00	X														
2	LP02 - White - Boiler Room	P	-	1		10:30	X														
3	LP03 - Beige - Throughout	P	-	1		10:35	X														
4	LP04 - Grey - Throughout	P	-	1		10:40	X														
5	LP05 - White - Learning Commons	P	-	1		10:45	X														
6	LP06 - Dark Grey - Basement Walls	P	-	1		10:50	X														
7	LP07 - Grey - Basement Floor/Stairs	P	-	1		10:55	X														
8	LP08 - White - Basement Bath/Staff Rm	P	-	1		11:00	X														
9	LP09 - White - Exterior Base	P	-	1		11:05	X														
10	LP10 - Grey - Classroom/Man office	P	-	1		11:10	X														

Comments:			Method of Delivery: <u>Kedex Purdick</u>		
Relinquished By (Sign):	Received By Driver/Depot:	Received at Lab: <u>Snicker Demain</u>	Verified By: <u>[Signature]</u>		
Relinquished By (Print):	Date/Time:	Date/Time: <u>Mar 8, 2023 9:25</u>	Date/Time: <u>Mar 8/23 9:58</u>		
Date/Time:	Temperature: _____ °C	Temperature: _____ °C	pH Verified: <input type="checkbox"/> By: _____		



Parcel ID: 2310204



Parcel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
---------------------------------------	------------------------------------

Client Name: MTE Consultants	Project Ref: 53042-100 - Mary Hopkins HVAC Upgrades	Page 2 of 2
Contact Name: Gavin Oakes; Aaron Rows	Quote #: MTE Standing Offer	Turnaround Time <input type="checkbox"/> 1 day <input type="checkbox"/> 3 day <input type="checkbox"/> 2 day <input checked="" type="checkbox"/> Regular Date Required: <u>March 14/2023</u>
Address: 1016 Sutton Drive, Unit A Burlington, ON L7L 6B8	PO #:	
Telephone: 905-639-2552	E-mail: goakes@mte85.com arows@mte85.com	

<input type="checkbox"/> REG 153/04 <input type="checkbox"/> REG 406/19 <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Med/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> Table _____ For RSC: <input type="checkbox"/> Yes <input type="checkbox"/> No	Other Regulation <input type="checkbox"/> REG 558 <input type="checkbox"/> PWQO <input type="checkbox"/> CCME <input type="checkbox"/> MISA <input type="checkbox"/> SU - Sanit <input type="checkbox"/> SU - Storm Mun: _____ <input type="checkbox"/> Other: _____	Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)	Required Analysis																	
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Leed														
1 LP11 - White - Classrooms	P	-	1	Mar 3/23	11:15		X													
2 LP12 - Brown - Exterior	P	-	1	↓	11:20		X													
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Comments:			Method of Delivery: <i>Edge Products</i>		
Relinquished By (Sign):	Received By Driver/Depot:	Received at Lab:	Verified By: <i>Mayu</i>		
Relinquished By (Print):	Date/Time:	Date/Time: <i>March 9:25</i>	Date/Time: <i>March 8/23 9:58</i>		
Date/Time:	Temperature: °C	Temperature:	pH Verified: <input type="checkbox"/> By: _____		

Certificate of Analysis

MTE Consultants Inc. (Burlington)

1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8
Attn: Gavin Oakes

Client PO:
Project: 53042-100-Mary Hopkins HVAC Upgrades
Custody:

Report Date: 13-Mar-2023
Order Date: 8-Mar-2023

Order #: 2310208

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

Paracel ID	Client ID
2310208-01	PCB1-Roof 1- grey/Black Sealant
2310208-02	PCB2 - Light grey - Exterior Sealant
2310208-03	PCB3 - Roof 2-grey sealant

Approved By:



Mark Foto, M.Sc.
Lab Supervisor

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100-Mary Hopkins HVAC Upgrades

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PCBs, total	SW846 8082A - GC-ECD	7-Mar-23	10-Mar-23

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100-Mary Hopkins HVAC Upgrades

Client ID:	PCB1-Roof 1- grey/Black Sealant	PCB2 - Light grey - Exterior Sealant	PCB3 - Roof 2-grey sealant	-
Sample Date:	03-Mar-23 12:00	03-Mar-23 12:05	03-Mar-23 12:05	-
Sample ID:	2310208-01	2310208-02	2310208-03	-
MDL/Units	Other	Other	Other	-

PCBs

PCBs, total	5 ug/g	<5	<5	<5	-
Decachlorobiphenyl	Surrogate	128%	136%	132%	-

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100-Mary Hopkins HVAC Upgrades

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	5	ug/g						
Surrogate: Decachlorobiphenyl	6.22		ug/g		124	60-140			

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100-Mary Hopkins HVAC Upgrades

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	5	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	6.14		ug/g		123	60-140			

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100-Mary Hopkins HVAC Upgrades

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	26	5	ug/g	ND	130	60-140			
Surrogate: Decachlorobiphenyl	6.55		ug/g		131	60-140			

Certificate of Analysis

Report Date: 13-Mar-2023

Client: MTE Consultants Inc. (Burlington)

Order Date: 8-Mar-2023

Client PO:

Project Description: 53042-100-Mary Hopkins HVAC Upgrades

Qualifier Notes:

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

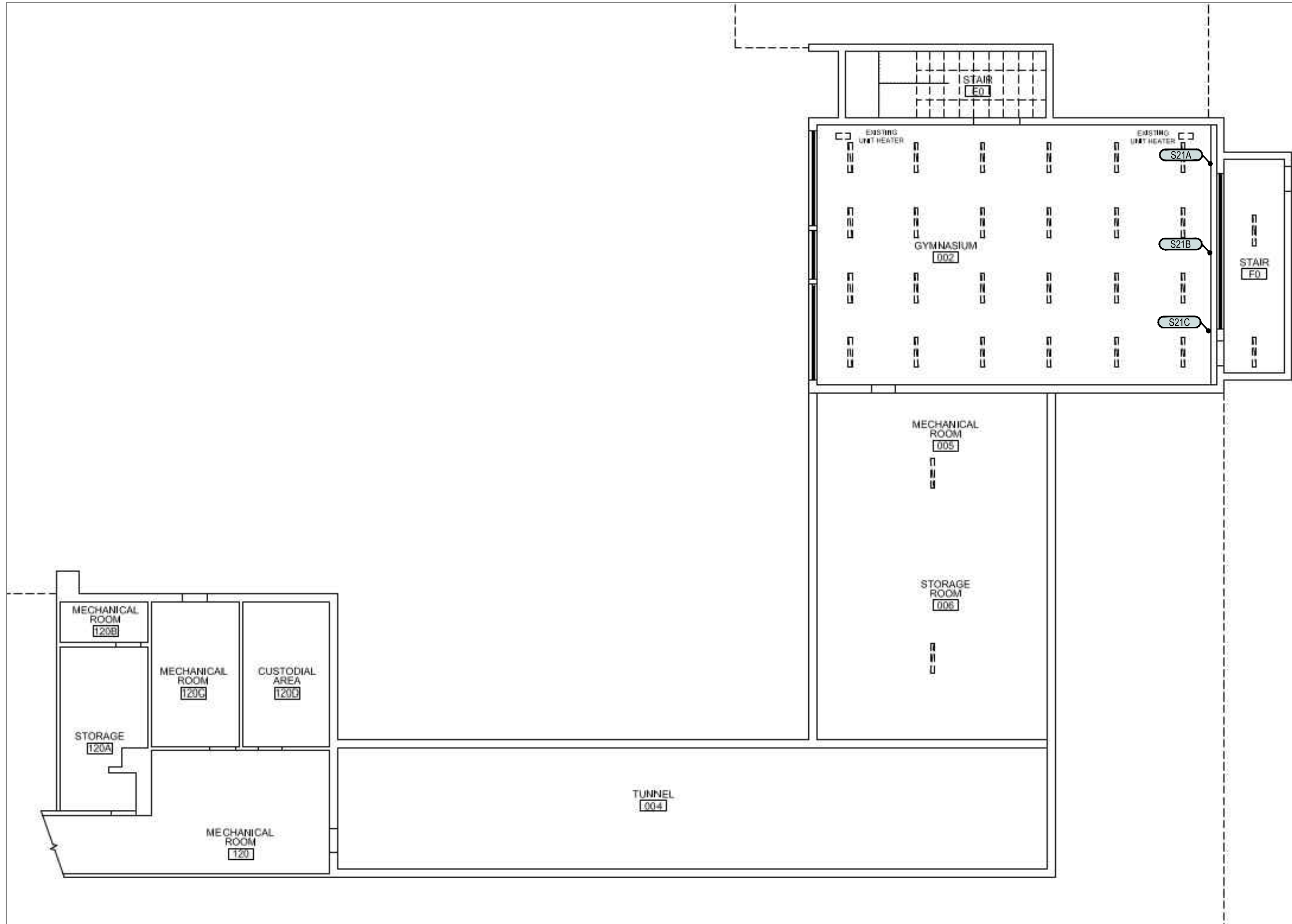
%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Appendix C

Figures



Notes:
 ALL DRAWINGS TO BE REFERENCED WITH THE DSA REPORT. LOCATIONS AND QUANTITIES ARE APPROXIMATE.
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 THIS FIGURE IS COLOUR DEPENDENT. PHOTOCOPIES MAY ALTER INTERPRETATION OF FIGURE. ALWAYS REFER TO ORIGINAL DRAWINGS AND DSA REPORT.

Designated Substances and Hazardous Materials Legend

- Sample Identification
- ACM Pipe Insulation Straights
- ACM Pipe Insulation Elbows/Fittings
- Post 1990 Construction
- ACM Vinyl Floor Tile
- Fire Door



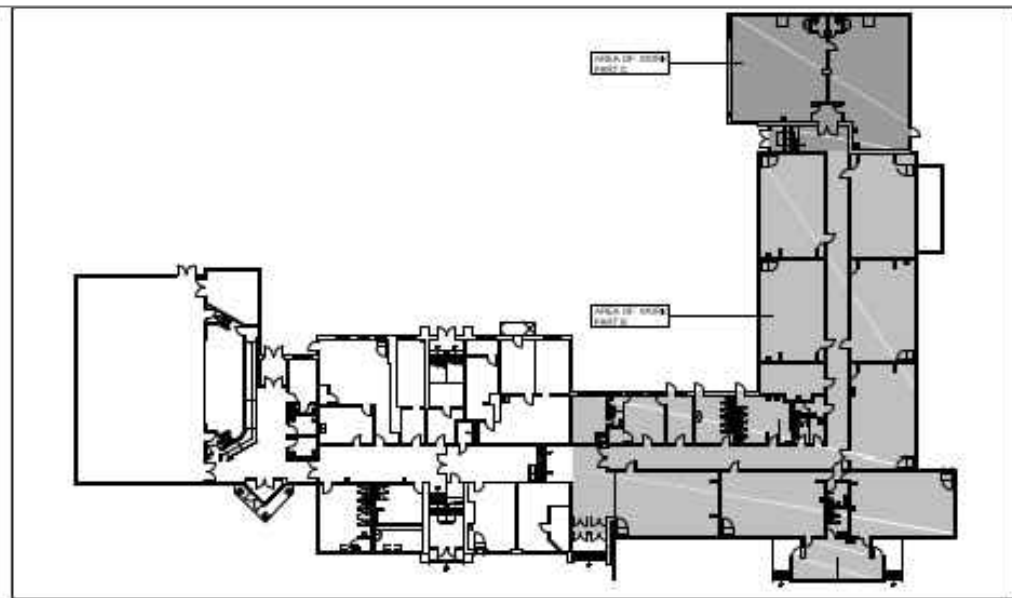
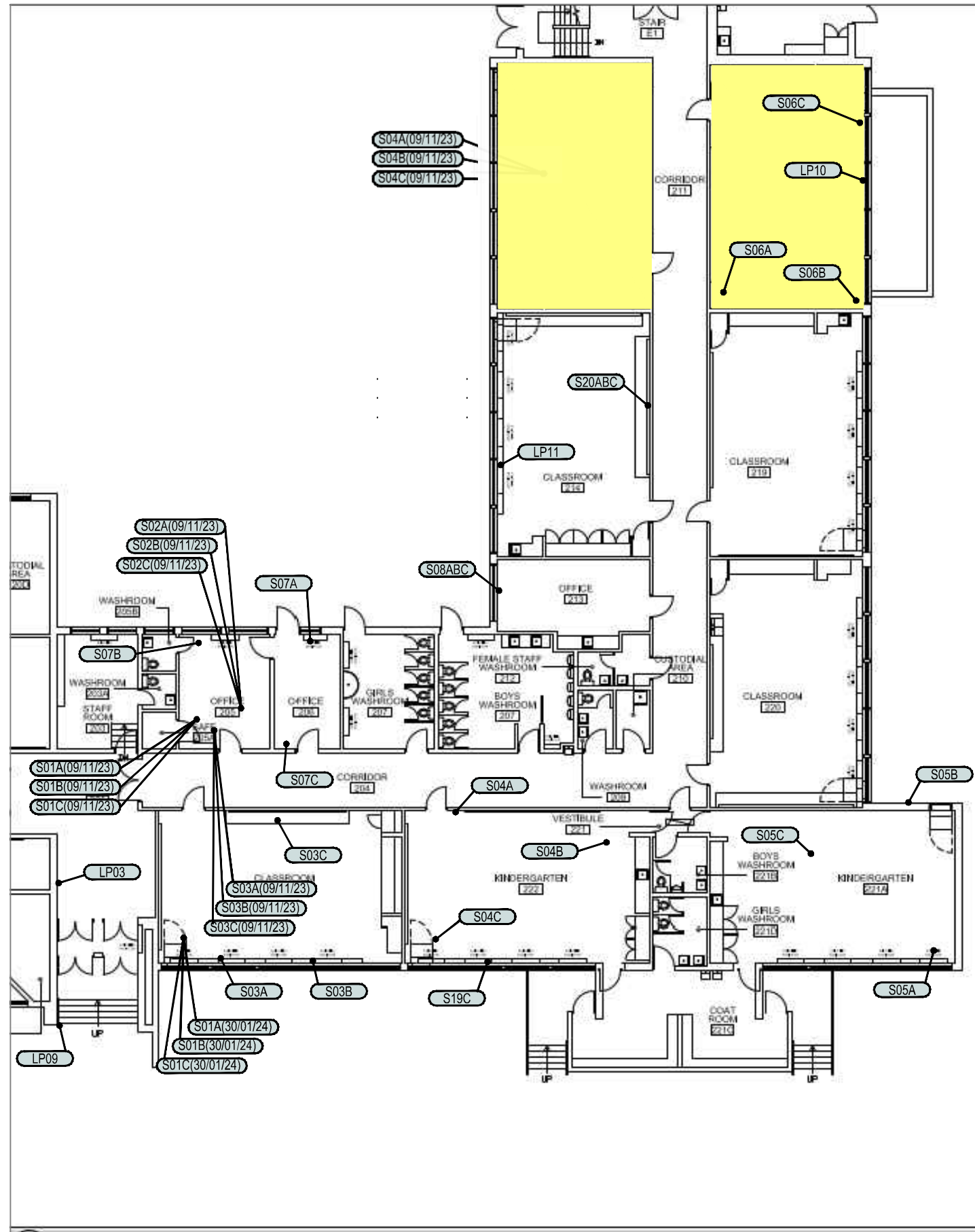
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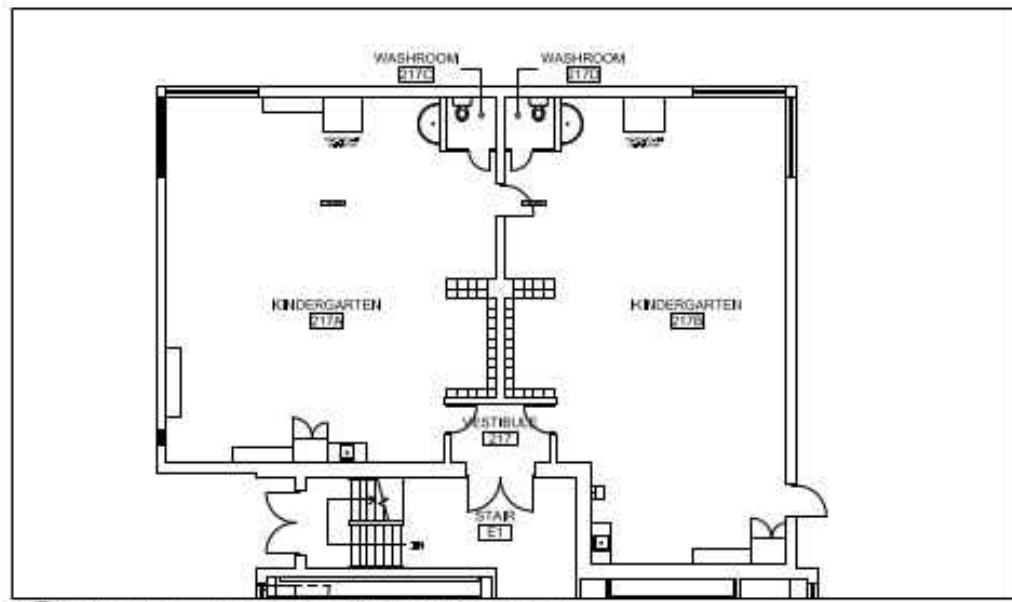
PROJECT
 DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
 MARY HOPKINS ELEMENTARY SCHOOL
 BASEMENT LEVEL

Project Manager	G. OAKES	Date	FEBRUARY 2024
Baseplan By	CLIENT	Project No.	53042-100
Figure By	MJV/ SXS	Drawing No.	1.0
Scale	N.T.S.		



KEY PLAN
SCALE: RFE



2 PARTIAL GROUND FLOOR DEMOLITION PLAN - PART C
SCALE: 1:100

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Designated Substances and Hazardous Materials Legend

- SM-1234 Sample Identification
- ACM Pipe Insulation Straights
- ACM Pipe Insulation Elbows/Fittings
- Post 1990 Construction
- ACM Vinyl Floor Tile
- ▲ Fire Door



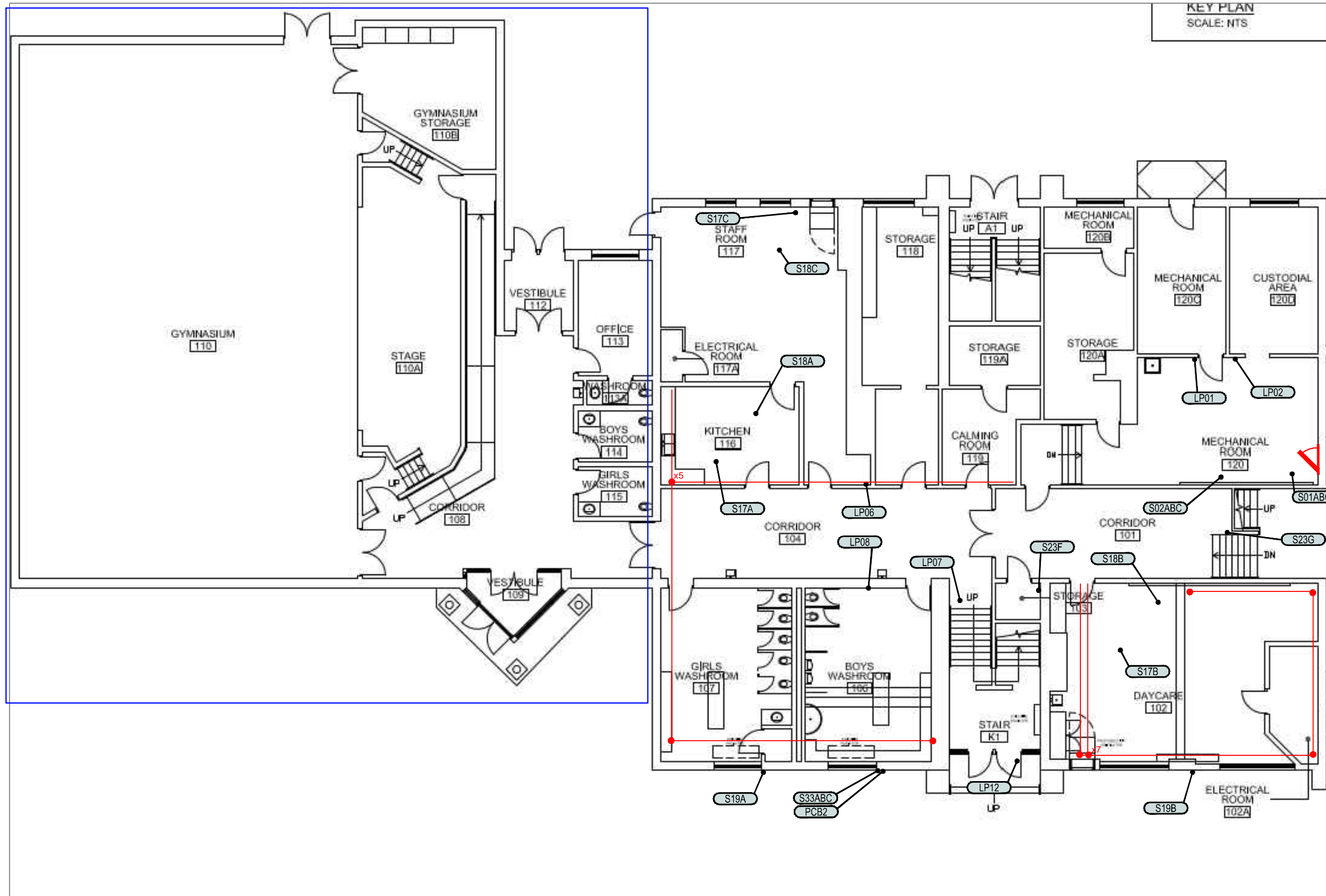
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PROJECT
DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
MARY HOPKINS ELEMENTARY SCHOOL
PARTIAL GROUND LEVEL

Project Manager	G. OAKES	Date	FEBRUARY 2024
Baseplan By	CLIENT	Project No.	53042-100
Figure By	MJV/ SXS	Drawing No.	1.1
Scale	N.T.S.		



KEY PLAN
SCALE: NTS

Notes:
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Designated Substances and Hazardous Materials Legend

- SM-1234 Sample Identification
- ACM Pipe Insulation Straights
- ACM Pipe Insulation Elbows/Fittings
- Post 1990 Construction
- ACM Vinyl Floor Tile
- ▲ Fire Door



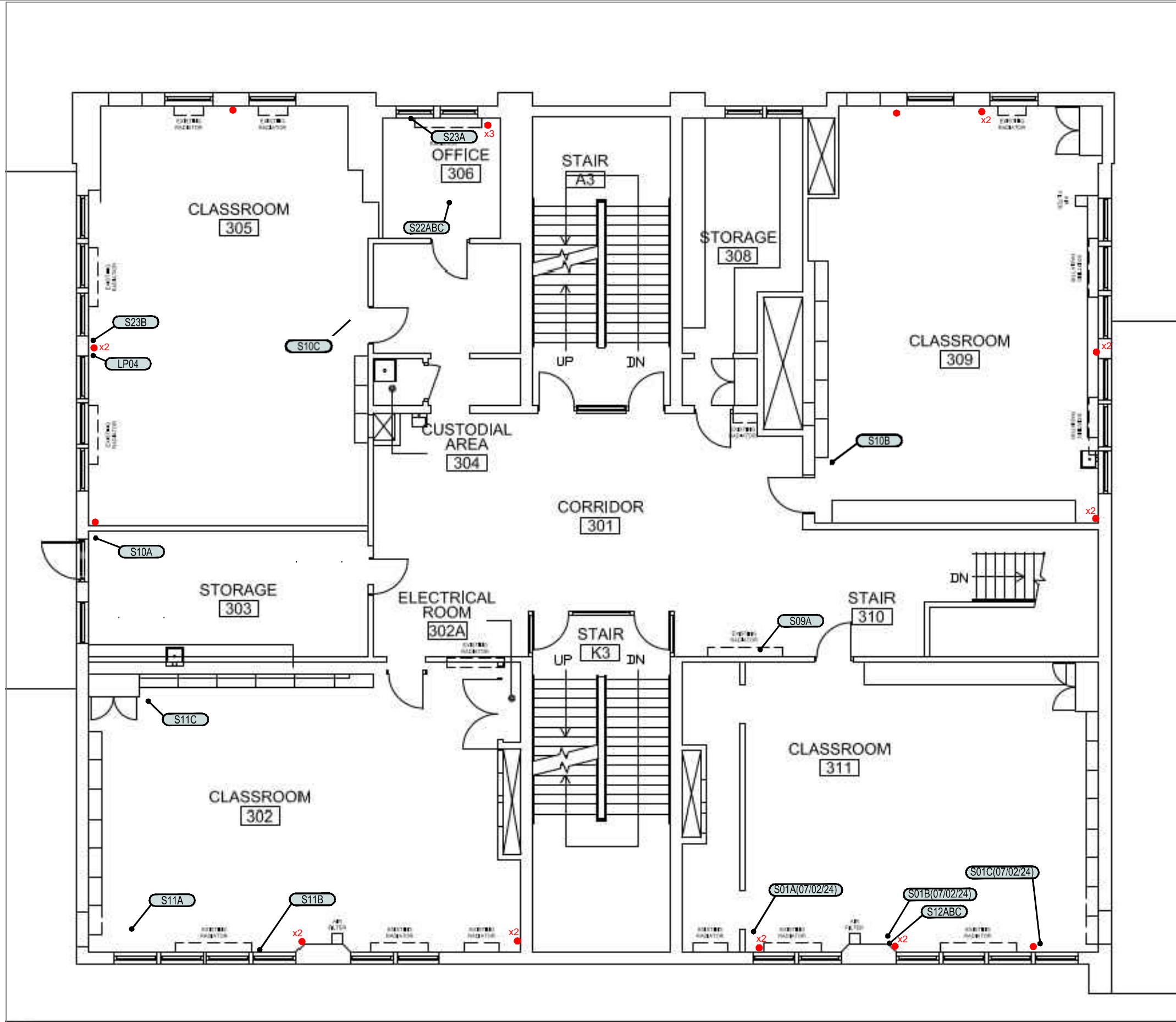
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HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

PROJECT
DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
MARY HOPKINS ELEMENTARY SCHOOL
PARTIAL GROUND LEVEL

Project Manager	G. OAKES	Date	MARCH 2023
Baseplan By	CLIENT	Project No.	53042-100
Figure By	MJV	Drawing No.	1.2
Scale	N.T.S.		



1 THIRD FLOOR DEMOLITION PLAN
 A1.11 SCALE: 1:100

Notes:
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- Designated Substances and Hazardous Materials Legend**
- SM-1234 Sample Identification
 - ACM Pipe Insulation Straights
 - ACM Pipe Insulation Elbows/Fittings
 - Post 1990 Construction
 - ACM Vinyl Floor Tile
 - ▲ Fire Door



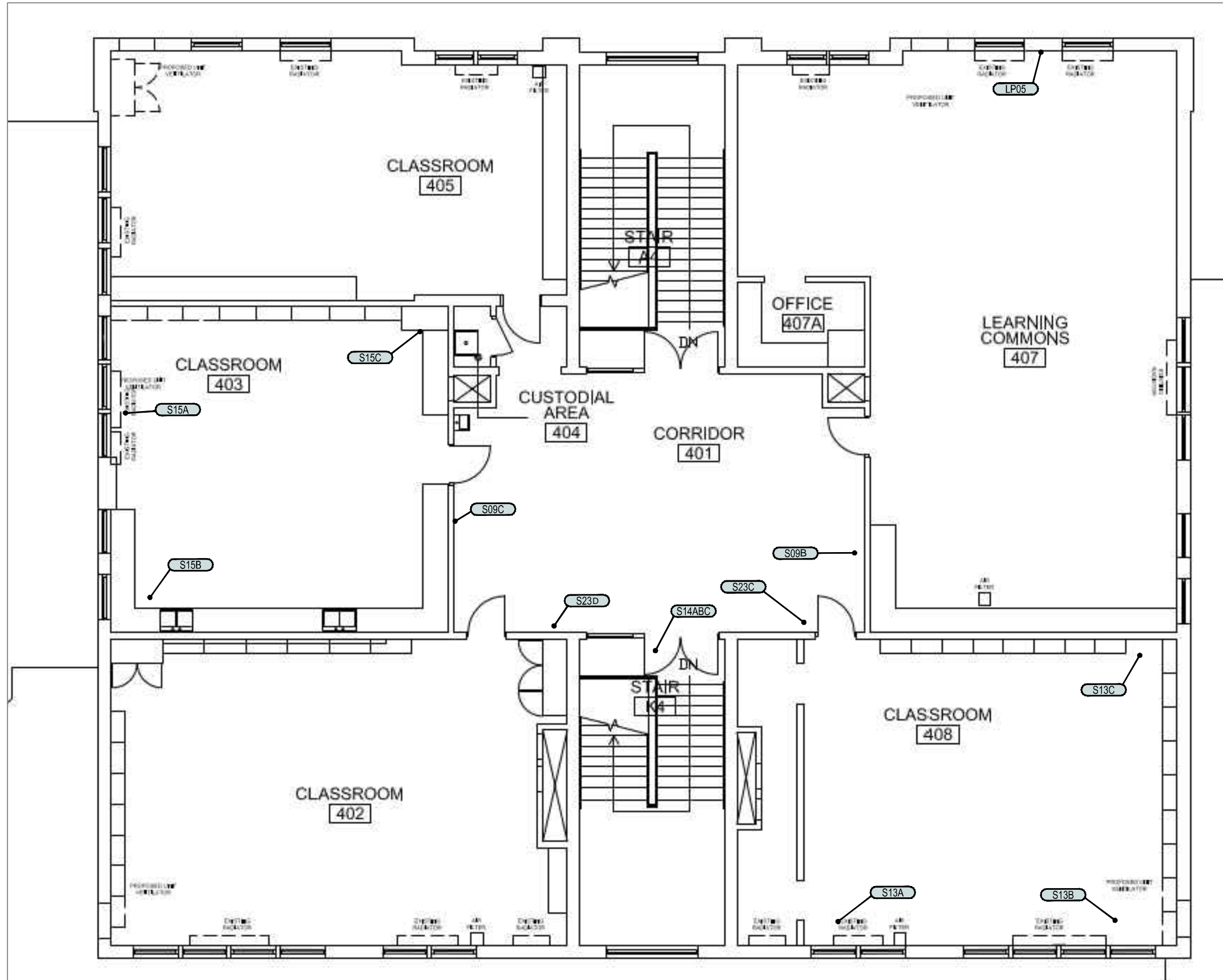
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CLIENT
 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

PROJECT
 DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
 MARY HOPKINS ELEMENTARY SCHOOL
 THIRD FLOOR

Project Manager	G. OAKES	Date	FEBRUARY 2024
Baseplan By	CLIENT	Project No.	53042-100
Figure By	MJV/SXS	Drawing No.	1.3
Scale	N.T.S.		



1 FOURTH FLOOR DEMOLITION PLAN
 A1.12 SCALE: 1:100

Notes:
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- Designated Substances and Hazardous Materials Legend**
- SM-1234 Sample Identification
 - ACM Pipe Insulation Straights
 - ACM Pipe Insulation Elbows/Fittings
 - Post 1990 Construction
 - ACM Vinyl Floor Tile
 - ▲ Fire Door



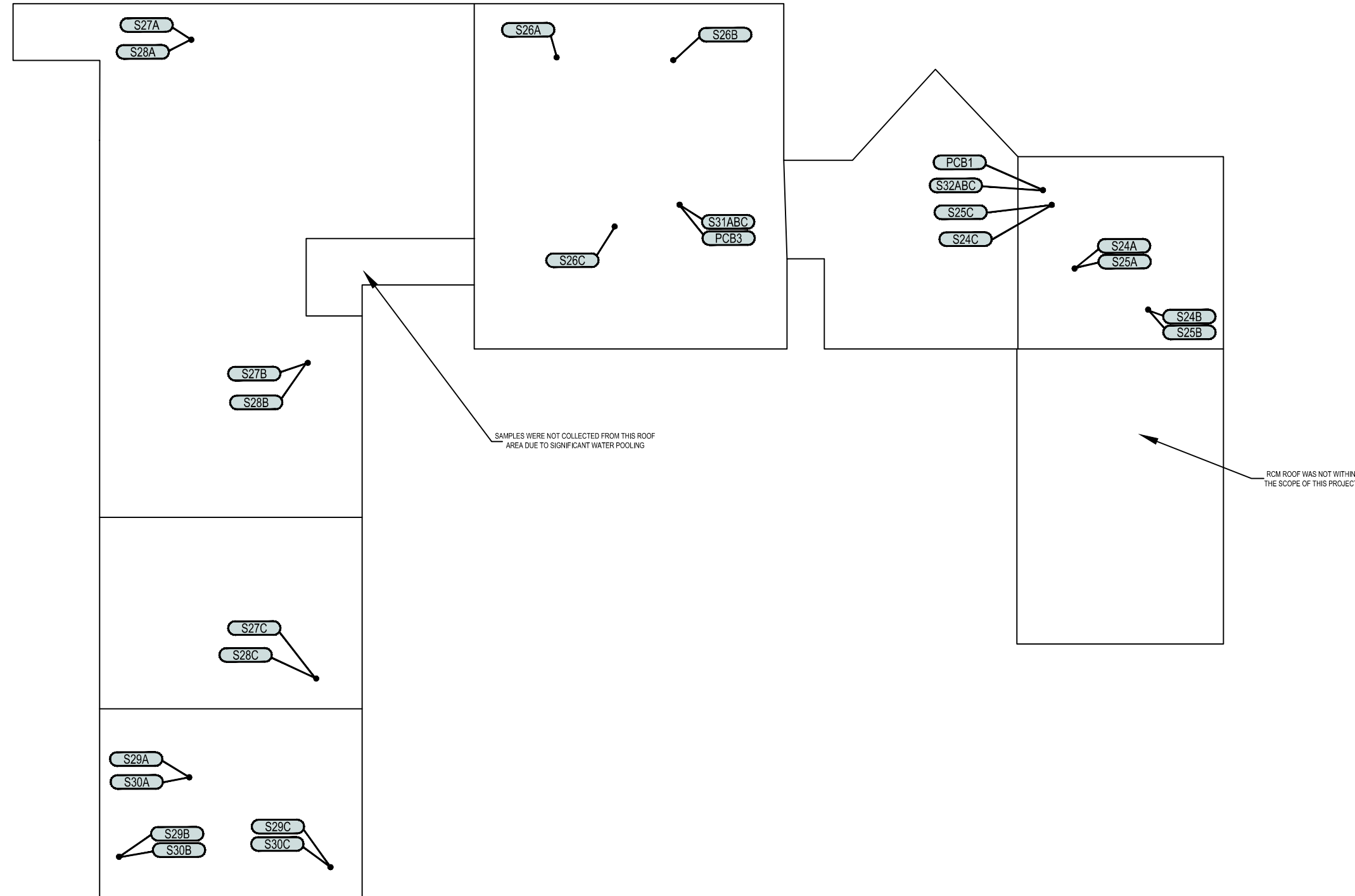
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CLIENT
 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

PROJECT
 DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
 MARY HOPKINS ELEMENTARY SCHOOL
 FOURTH FLOOR

Project Manager	G. OAKES	Date	MARCH 2023
Baseplan By	CLIENT	Project No.	53042-100
Figure By	MJV	Drawing No.	1.4
Scale	N.T.S.		



Notes:
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Designated Substances and Hazardous Materials Legend

Sample Identification



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PROJECT
 DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
 MARY HOPKINS ELEMENTARY SCHOOL
 ROOF LEVEL

Project Manager	G. OAKES	Date	MARCH 2023
Baseplan By	CLIENT	Project No.	53042-100
Figure By	MJV	Drawing No.	1.5
Scale	N.T.S.		

Appendix D

Photographic Log



Photograph No. 1 – The Vinyl Floor tile in classrooms 218 and 215 is asbestos-containing. The associated mastic is non-asbestos.



Photograph No. 2 – Aircell pipe insulation on pipe straights throughout the boiler room and adjacent mechanical rooms is asbestos-containing. The parging on pipe fittings is also asbestos-containing.



Photograph No. 3 – Fire doors were observed in the boiler room and are suspected to contain asbestos insulation.



Photograph No. 4 – Asbestos-containing aircell pipe insulation was observed on pipe straights in the basement above ceilings throughout. Associated parging on pipe fittings also contains asbestos.



Photograph No. 5 – The beige paint on interior walls is lead-containing.



Photograph No. 6 – The grey paint on walls in classrooms is lead-containing.



Photograph No. 7– The white paint on the foundation is lead-based. The brown paint on exterior doors and windows is Lead-based. The exterior brick mortar was sampled and does not contain asbestos.



Photograph No. 8 – Window mounted air conditioning units were found throughout the building in classrooms and are suspected to contain ozone depleting substances.



Photograph No. 9– The boiler is suspected to contain asbestos components such as gaskets.



Photograph No. 10– Suspect lead solder on copper piping was observed in the boiler room.



Photograph No. 10– The drywall ceiling in the Gymnasium does not contain asbestos.



Photograph No. 11– Roof mounted air handling units were observed and are suspected to contain ozone depleting substances.



Photograph No. 12– Mercury contain fluorescent light tubes were observed throughout the interior. Associated light ballasts could not be de-energized and accessed; therefore, they are suspected to contain PCBs.



Photograph No. 14– 1'x1' small pinhole and large pinole ceiling tiles above the drop ceiling in Room 205 were sampled and do not contain asbestos. These same tiles are present at various locations throughout the ground floor.



Photograph No. 13– 2'x4' medium fissure random pinhole ceiling tile was sampled in room 205 and does not contain asbestos.



Photograph No. 15– Mastic was sampled above the drop ceiling in room 215 and does not contain asbestos.



Photograph No. 16– The mastic behind the classroom chalkboards was sampled and is asbestos-containing.