



HAZARDOUS MATERIALS ASSESSMENT

Shaw Building

95 Rochford Street, Charlottetown, PE

Prepared For:

PEI Department of Transportation & Infrastructure
P.O. Box 2000
Charlottetown, PE

May 24, 2023

ALL-TECH Project No.: PE22400

ALL-TECH Environmental Services Limited, 70 Nicholas, Unit 4, Charlottetown, PE, C1E 3J5
Phone: (902) 569-0172 Web: <http://www.toalltech.com>

Bedford, NS Sydney, NS St. John, NB Moncton, NB Charlottetown, PE St John's, NL Cornerbrook, NL Gander, NL

EXECUTIVE SUMMARY

ALL-TECH Environmental Services Limited was contracted by the PEI Department of Transportation & Infrastructure (DTI) to conduct a hazardous material assessment for Shaw Building located at 95 Rochford Street, Charlottetown, Prince Edward Island.

The purpose of the assessment was to identify hazardous materials within the building which may require safe handling procedures and disposal requirements in accordance with their applicable regulations prior to any planned work, renovations, or demolition and to assist in the Asbestos Management Plan (AMP) of any in place asbestos containing materials (ACM).

This report has been prepared to document the identities, usages and locations of any designated substances and hazardous materials identified within the building.

The on-site assessment was conducted in January 2023. During the assessment hazardous materials including asbestos and lead (paint) were sampled. In addition, lamp ballasts and electrical transformers were visually assessed for Polychlorinated Biphenyls (PCBs) and reported if identified.

Based on the findings from the Hazardous Materials Assessment, the following conclusions and recommendations are presented.

A summary of the Hazardous Materials identified within the building is provided below in Table A based on our assessment as well as safe handling requirements. Areas identified with visually same ACM materials are outlined in Appendix III Site drawing with ACM locations.

Asbestos containing parging cement on fittings was noted in accessible areas throughout the building as have been identified in the Summary of ACM conditions and action report in Appendix IV. Floor plans have been added to Appendix III to assist in locating these areas.

Several areas were identified with solid fixed ceiling with no access above ceilings. There were some locations where wall or ceiling hatches are present, and it was confirmed that ACM pipes are present above fixed ceiling areas.

Some newer insulated pipes were also noted and were tested as non-asbestos containing. Due to the volume of pipes and various insulations used, it is not practical to assess each individual pipe fitting within the building. Therefore, all pipe fittings shall be treated as ACM's unless proven otherwise. It is imperative to implement a labelling program for pie systems within the building when new insulations are installed to avoid duplicate sampling and possible health and safety issues.

Assessment Summary of ACM conditions and action report is outlined in Appendix IV and shall be used in conjunction with PEI Department of Transportation & Infrastructure's Asbestos Management Plan (2023) and shall be subject to annual review.

Other hazardous materials identified through sampling or visual assessment are noted in section 4 and are summarized in Appendix V.

Upon review of this report and based on any planned work, renovations or demolition, a full scope of work should be developed. This scope of work will be dependent upon which materials need to be

disturbed or removed prior to the renovations. Should ACM not require disturbance or removal, then those identified shall remain in place and be part of the Management Plan.

TABLE A
Summary of Hazardous Materials for Management Plan
Shaw Building

Hazardous Materials	Description / Comments	Safe Handling Requirements	Disposal Requirements
ASBESTOS	Parging cement on mechanical pipe fittings	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Regulatory approval from PEIELJ Disposal at approved facility such as EPWMF in Wellington, PEI
	Parging cement on mechanical duct insulation		
	Black mastic under floor tiles		
LEAD PAINT	Grey paint on concrete floor / (Basement garage)	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.
	Yellow paint on concrete / (Basement garage)		
	Cream colour paint on concrete / (Basement Boiler room)		
	Red paint on concrete floor / (Basement Boiler room)		
	Brown paint on ceiling above ceiling tiles / 1 st floor N		
White paint on wall surface / 2 nd floor S corridor			
PCB's	- GS Sola 570-302T Lamp Ballasts - GE Gold Label 17A240T Lamp Ballasts - Valmont Gold Label 17A240EW Lamp Ballasts	TDG – manifest Trained personnel in the safe handling of PCB's and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Pursuant to Chlorobiphenyls Regulations of the Canadian Environmental Protection Act (CEPA)
SILICA	Presumed in the following building components: • Concrete base and structure (exterior) • Poured or pre-cast concrete (main and penthouse floors)	Trained personnel in the safe handling of silica dust and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I	Regulatory approval from PEIELJ

	<ul style="list-style-type: none"> • Interior concrete block walls / mortar • Plasters 		
MERCURY	fluorescent lamp tubes thermostats	Do not break lamps or separate liquid mercury from components	Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable Regulations.

This summary should not be used alone. The report must be read in its entirety.



Larry Koughan, CET, CRSP
Project Principal
ALL-TECH Environmental Services Limited

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Appendix V	Summary of other Hazardous Materials report

SITE / CLIENT INFORMATION

Project No:	PE22400
Assessment Date:	January 2023
Client Name:	PEI Department of Transportation & Infrastructure
Address:	Shaw Building 95 Rochford Street Charlottetown, PE

1 INTRODUCTION

ALL-TECH Environmental Services Limited was contracted by the PEI Department of Transportation & Infrastructure (DTI) to conduct a hazardous material assessment for Shaw Building located at 95 Rochford Street, Charlottetown, Prince Edward Island.

The purpose of the assessment was to identify hazardous materials within the building which may require safe handling procedures and disposal requirements in accordance with their applicable regulations prior to any planned work, renovations, or demolition and to assist in the Asbestos Management Plan (AMP) of any in place asbestos containing materials (ACM).

This report has been prepared to document the identities, usages and locations of any designated substances and hazardous materials identified within the building.

The on-site assessment was conducted in January 2023. During the assessment hazardous materials including asbestos and lead (paint) were sampled. In addition, lamp ballasts and electrical transformers were visually assessed for Polychlorinated Biphenyls (PCBs) and reported if identified.

1.1 SURVEY OBJECTIVES

The scope of the survey was to conduct a non-destructive assessment to identify asbestos, lead, and PCBs within the subject building as well as any other suspect hazardous materials if encountered. ALL-TECH inspected both interior and exterior spaces of the subject building to determine whether designated substances and hazardous materials were present. Representative sampling for suspect asbestos and lead paint materials was conducted as required based on industry standards and the consultant's experience.

1.2 BACKGROUND BUILDING INFORMATION

TABLE 1 BUILDING FRAMEWORK	
Building Use	Government offices
Number of Floors	5 floors
Total Area	Approximately 11,020 m ²
Year of Construction	1964
Structure	Steel; concrete
Exterior Cladding	Concrete
HVAC	ACM parging with fiberglass insulation
Roof	Not assessed
Flooring	Terazzo; vinyl sheet flooring, vinyl floor tiles , carpet
Interior Walls	Plaster; drywall
Ceilings	Suspended ceiling tiles; drywall; plaster

2 REGULATIONS & GUIDELINES

A summary table (Table 2) is provided for the applicable regulations, policies, codes, and / or guidelines of hazardous materials assessed for the purpose of this report. This information was used as reference to assess suspect hazardous materials and make recommendations based on the findings.

TABLE 2 SUMMARY OF REGULATORY FRAMEWORK	
ASBESTOS	<ul style="list-style-type: none"> ▪ <i>Occupational Health and Safety Act</i> R.S.P.E.I. 1988, Cap. O-1.01 General Regulations – Part 49 (Including any amendments to May 2021). ▪ Guide to Asbestos Management, Workers Compensation Board of PEI. ▪ <i>Environmental Protection Act Chapter E-9 Waste Management Regulations</i>, Prince Edward Island ▪ Transportation of Dangerous Goods Act (TDGA)
LEAD	<ul style="list-style-type: none"> ▪ Hazardous Products Act ▪ Prince Edward Island Department of Environment, Labour and Justice (PEIELJ) ▪ Transportation of Dangerous Goods Act (TDGA) ▪ The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair. ▪ Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
PCB's	<ul style="list-style-type: none"> ▪ Environmental Contaminants Act, Chlorophenyl Regulations ▪ Environment Canada – "Identification of Lamp Ballasts Containing PCB's," report EPS 2/CC/2 (revised) August 1991 ▪ PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.

2.1 ASBESTOS

Asbestos materials can be found in one of two forms: friable asbestos or a non-friable type. Friable asbestos material refers to material that when dry, can be crumbled, pulverized, or reduced to a powder by hand pressure. This type of asbestos material is hazardous due to its potential to become airborne, if damaged or disturbed.

Friable asbestos building products used that have been used in the past are sprayed acoustic and fire protection insulation which were installed on mechanical room ceilings, building structures, ceiling finishes, etc., and mechanical insulation on piping, tanks, boilers, vessels, etc. Some non-friable building products are vinyl acoustic floor tiles, gaskets, transite panels, piping, and shingles.

Non-friable materials if handled improperly during removal or renovations, such as cutting transite panels with an electrical tool, can cause high fiber releases.

Asbestos is classified as a hazardous material under the TDGA and must adhere to specific requirements for transfer including but not limited to waste transfer manifests and proper placards. All asbestos waste must be disposed of at an approved municipal solid waste disposal site. Recent changes from the Prince Edward Island's Department of Environment's Environmental Protection Act, Waste Resource Management Regulations have defined asbestos as "special waste" as asbestos containing materials containing 1% or greater by weight for the purpose of disposal.

All work should be carried out by personnel trained and licensed with the provincial department of the Workers Compensation Board / Occupational Health and Safety Division for asbestos abatement.

2.2 LEAD

Lead in paints is regulated under the Canadian Environmental Protection Act (CEPA) as published in Canada Gazette Part II. The lead content limit has been set to 600 mg/kg (0.06 percent by weight) for surface coating materials.

Any disturbance or removal of lead-based materials which may generate lead dust shall have to conform to the federal and provincial Occupational Health and Safety Act and Regulations. All work should be carried out by personnel trained in the safe handling of lead-based paint coatings and shall be trained in the use of respirators and be properly fit tested.

PEIELJ has established guidelines that restrict hazardous materials from municipal landfills and Construction and Demolition (C&D) waste disposal sites which potentially may migrate / leach into groundwater and cause adverse environmental impacts. Lead coated surfaces may leach from their base materials into soil and subsequent groundwater. PEIELJ has established guidelines that materials containing 1000 mg/kg or 0.1% lead by weight shall be classified as lead-based paints. If materials are

found to be above this guideline and require removal and disposal, then the materials must undergo leachate testing to assess total concentrations which could potentially leach into the ground soil and groundwater. Presently provincial requirements for lead leachate testing shall not exceed 5 mg/L. Disposal criteria for lead containing paints are based on total and leachable concentrations are as follows:

- Materials with total lead concentrations below the applicable Total guidelines can be disposed of at any C&D disposal site.
- Materials with *total lead concentrations above* the applicable Total guidelines and *leachable lead concentrations below* the applicable Leachate guidelines must be disposed of at an approved municipal solid waste landfill that has a composite liner and leachate collection system (i.e., East Prince Waste Management Facility in Wellington, PEI). A waste generator permit must first be approved and obtained by PEIELJ.
- Materials with total and leachable lead concentrations above provincial guidelines must be transported to an approved hazardous waste disposal site.

Materials with leachable lead concentrations above provincial guidelines must be manifested as dangerous goods during transport under the federal TDGA. Hazardous materials that are being disposed of out of province must comply with Interprovincial Movement of Hazardous Waste Regulations under the Canadian Environmental Protection Act (CEPA).

2.3 POLYCHLORINATED BIPHENYLS (PCB's)

In 1976, the Canadian Environment Contaminants Act passed regulations which prohibited the use of PCBs in transformer equipment. Under the same Act, the Chlorophenyl Regulations No. 1, states that PCBs cannot be used as a constituent of electrical capacitors, electrical transformers and associated electrical equipment manufactured in or imported into Canada after July 1, 1980.

There is currently no regulatory requirement to remove in-use PCBs from service. However, should suspect PCB containing light ballasts be removed from service, they should be treated as PCB waste or if confirmed to contain PCB oil in excess of 0.5 kg.

3 METHODOLOGY

The scope of work for the survey was to visually identify controlled hazardous materials for the safe handling and disposal of hazardous materials prior to renovations within the building. Where visual identification of asbestos containing materials and lead based paints were suspected but unable to be determined, samples were collected and sent to an approved laboratory for analysis.

There was limited destructive testing of structural members (i.e., walls, flooring) during the assessment. Where accessible, areas above ceiling cavities and behind walls were visually assessed to identify potentially concealed hazardous materials.

3.1 ASBESTOS

Using standard bulk sampling methodologies, representative suspect asbestos containing materials were sampled from ceiling & wall finishes, floor coverings, located throughout the building. Samples were placed in sealed plastic bags, labelled and a chain of custody form completed to be forwarded to IATL Laboratory via courier for analysis.

The asbestos assessment involved a visual investigation of suspect materials for the presence of asbestos containing materials. If these materials were suspected to contain asbestos, a bulk sample was collected of the representative material to be analysed with Polarized Light Microscopy.

It should be noted that asbestos containing materials may be present behind unrevealed areas. During demolition of these materials, precautions should be taken such as the use of personal protective equipment in the event of exposing concealed asbestos materials. If suspect materials are revealed, have them tested immediately.

3.2 LEAD

During the assessment, suspect lead-based paints were sampled from surfaces as determined by the consultant. Where practical, all layers of paint were removed and placed in sealed plastic bags, labelled and a chain of custody form completed to be forwarded to IATL Laboratory via courier for analysis.

3.3 POLYCHLORINATED BIPHENYLS

During the assessment, suspect PCB containing light ballasts were examined for PCB identification or by recording serial numbers for reference. Ballasts were inspected and manufacturers name, date and serial numbers were recorded when visible. The manufacturers identification numbers were then compared to Environment Canada's "Identification of Lamp Ballasts Containing PCB's," Report EPS 2/CC/2 9(revised), August 1991.

It should be noted that the assessment did not include the sampling / testing or analysis of the suspect PCB containing materials.

4 ASSESSMENT FINDINGS

4.1 ASBESTOS

During the survey, the consultant collected individual bulk material samples of suspect ACMs within the structure. Laboratory analysis certificates are presented in Appendix I.

A total of hundred and fourteen (114) bulk material samples were collected within the building during the survey. Some of these samples such as tile floor coverings, plasters and joint compounds were separated and a total of one hundred and seventy-four (174) samples were analyzed. Of the 174 samples analyzed, fifteen (15) were found to be asbestos containing.

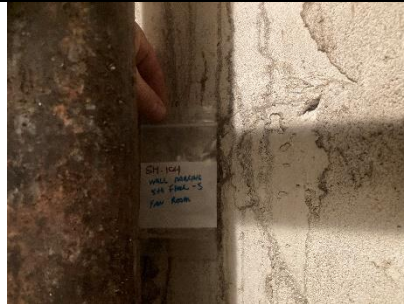
Other materials such as pipe and duct insulations visually identified as fiberglass insulation were noted and not sampled.

For details on approximate quantities, condition, friability, accessibility and locations of hazardous materials; refer to the **Summary of ACM conditions report** in Appendix IV.

Individual items sampled and ACM materials identified are itemized in each sub-section below.

4.1.1 *Texture Coat Finishes*

Texture coat finishes were observed in the mechanical fan rooms. Representative sampling was completed in various areas and the material was found to be non-asbestos containing.



4.1.2 Pipe Insulation

ACM parging cement is present on pipe fittings as identified through various samples within the building. A total of fourteen (14) parging cement samples were collected and 11 of them were found to contain **15% - 65% Chrysotile Asbestos**. One sample in the basement corridor and one sample in the parking garage were found to be non-asbestos containing.

Straight sections of pipe are insulated with fiberglass insulation as identified through visual observations (see Photo 2) or brown cellulose insulation (see photo 3).

Some pipes were observed and sampled of the black tar paper and woven wraps on them. Various samples during the assessment. None of the samples were found to contain asbestos (see photo 3).

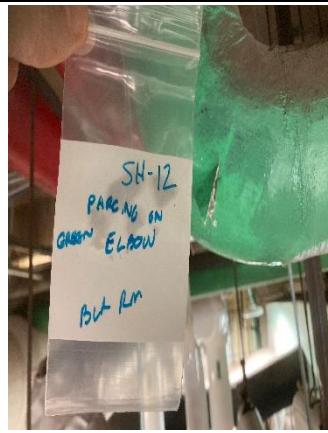


Photo 1



Photo 2

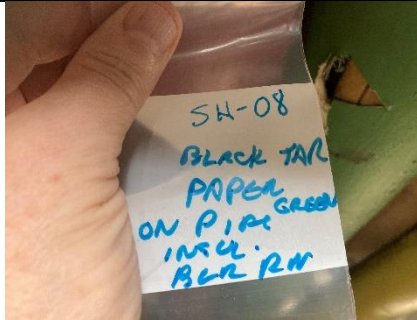


Photo 3

Sample SH-03 taken in the boiler room of brown pipe insulation was also found to have a skim coat of ACM parging under the canvas wrap (see photo 5). The pipe insulation is non asbestos containing. **The parging contains 15% Chrysotile asbestos.**



Photo 4



Photo 5



Photo 6



Photo 7

Photo 1 Wall pipe chase by Room 247 with ACM pipe fittings in fair condition.

Photo 2 Wall pipe chase by Room 350 with ACM debris and pipe fittings in poor condition.

Photo 3 Overhead pipe chase by Room 494 with ACM pipe fittings in fair condition.



Photo 1



Photo 2



Photo 3

4.1.3 Duct Insulation

ACM parging cement is present on mechanical duct insulations as identified through various samples within the building. A total of four (4) parging cement samples were collected and 3 of them were found to **contain 20% - 55% Chrysotile Asbestos (see photos 1 & 3)**. Sample SH-13 was found to be non-asbestos containing (see photo 2).



Photo 1



Photo 2

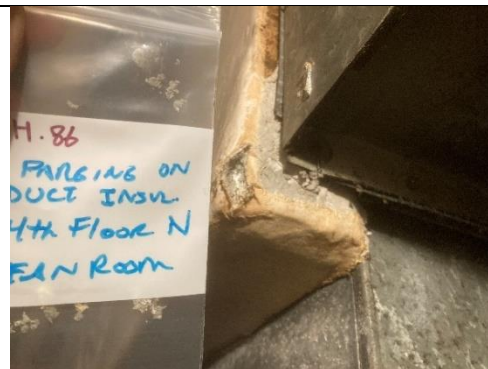


Photo 3

4.1.4 Mechanical Equipment Insulation

Mechanical system boilers were observed with steel liner with no suspect ACM present. Boiler gasketing was sampled and found to be non-asbestos containing. Some newer mechanical pipe systems are in place with PVC wrap over fiberglass insulation.



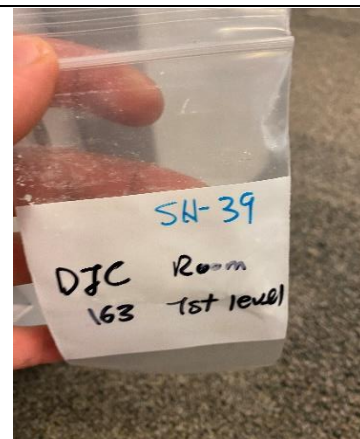
4.1.5 Plaster

Plaster walls and ceilings were noted and sampled in various random locations throughout the building. Representative sampling was completed on each floor and each block of the building. A total of forty-four (44) plaster samples were collected during the assessment. None of the samples were found to be asbestos containing.

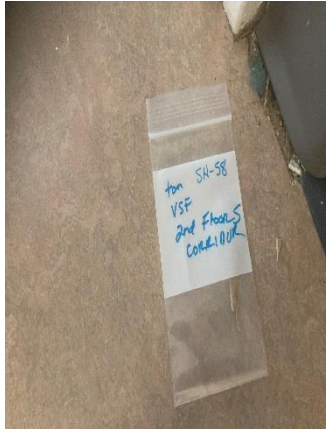



4.1.6 Drywall Joint Compound

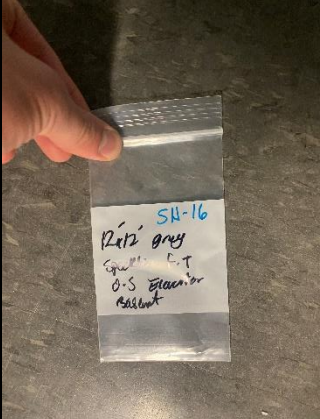
Drywall joint compound walls and ceilings were noted and sampled in various random locations throughout the building. Representative sampling was completed on each floor and block of the building if present. A total of sixteen (16) joint compound samples were collected during the assessment. None of the samples were found to be asbestos containing.

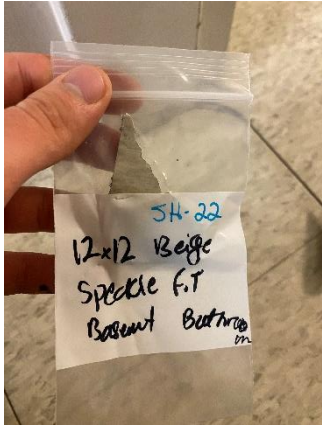
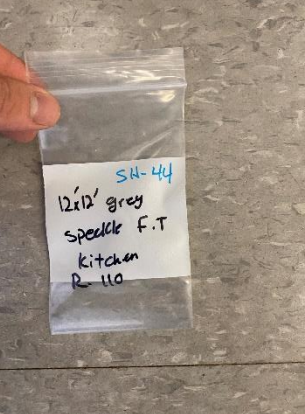
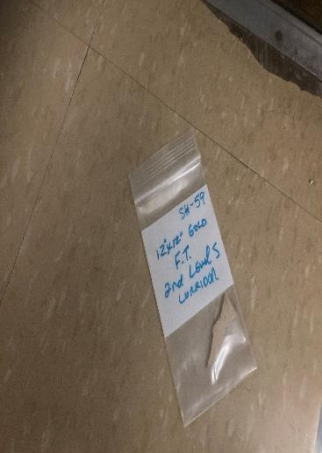



4.1.7 Vinyl Sheet Flooring

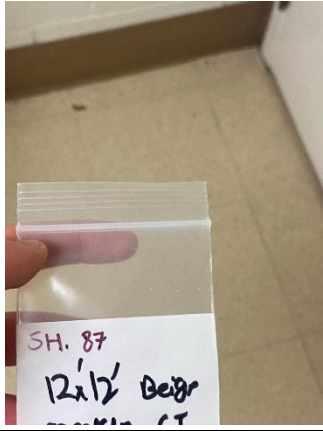
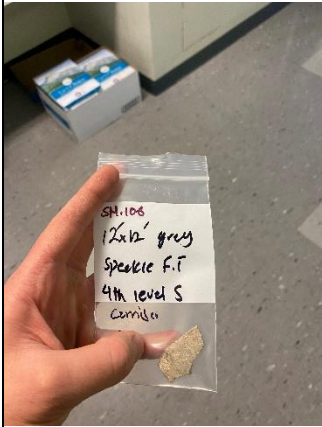
Sample No.:	Flooring Description	Location	Asbestos Type / Content (%)	Photo
SH-58	Tan vinyl sheet flooring with tan mastic	2 nd level corridor - south	None Detected in flooring or mastic	
SH-105	Green vinyl sheet flooring with yellow/tan backing material	5 th floor – room 522- south	None Detected in flooring or mastic	

4.1.8 Vinyl Floor Tiles

Sample No.:	Flooring Description	Location	Asbestos Type / Content (%)	Photo
SH-16	12" x 12" Grey floor tile with black mastic	Basement corridor	None Detected in floor tile. 1.3% Chrysotile in black mastic	

SH-22	12"x12" white/grey floor tile with black/grey mastic	Basement bathroom	None Detected in floor tile or mastic	
SH-44	12" x 12" grey floor tile with black mastic and grey leveling compound	Kitchen – room 110 – North	None Detected in floor tile or mastic or the leveling compound	
SH-59	12" x 12" Gold floor tile with yellow mastic	2 nd level – south-corridor	None Detected in floor tile or mastic	
SH-61	12" x 12" Green floor tile with yellow mastic	3 rd level- south-corridor	None Detected in floor tile or mastic	

SH-65	12" x 12" light blue floor tile with yellow mastic	3 rd level -center-corridor	None Detected in floor tile or mastic	 <p>A clear plastic sample bag with a white label. The label is handwritten in blue ink and reads: "SH-65", "12x12 light blue FT", "3rd Floor", "Center Corridor". The bag is placed on a light-colored floor.</p>
SH-66	18" beige/grey floor tile with yellow mastic	3 rd level corridor-room 336	None Detected in floor tile or mastic	 <p>A clear plastic sample bag with a white label. The label is handwritten in blue ink and reads: "SH-66", "18x18 beige/grey FT", "3rd Floor", "Room 336". The bag is placed on a beige/grey floor.</p>
SH-68	12"x12" grey floor tile	3 rd level- center-room 334	None Detected in floor tile	 <p>A clear plastic sample bag with a white label. The label is handwritten in blue ink and reads: "SH-68", "12x12 grey FT", "3rd Fl. C.", "Rm 334". The bag is placed on a grey floor.</p>
SH-76	12" x 12" white/blue floor tile with black mastic	3 rd level- kitchen-north	None Detected in floor tile or mastic	 <p>A clear plastic sample bag with a white label. The label is handwritten in blue ink and reads: "SH-76", "12x12 white speckle FT", "kitchen 3rd level N". A hand is holding the bag against a white/blue speckled floor.</p>

SH-87	12" x 12" Beige floor tile with yellow mastic	4 th level -north	None Detected in floor tile or mastic	
SH-96	12" x 12" white floor tile with yellow mastic	5 th floor – janitor room- north	None Detected in floor tile or mastic	NA
SH-106	12" x 12" grey floor tile with brown leveling compound	4 th level corridor - south	None Detected in floor tile or compound	

4.1.9 Ceiling Tiles

In-lay acoustic ceiling tiles were observed and sampled in various random locations throughout the building.

The ceiling tiles were observed as fissure design (Photo 1) and pinhole design (Photo 2) throughout. A total of fifteen (15) ceiling tile samples were collected during the assessment. None of the samples were found to be asbestos containing.

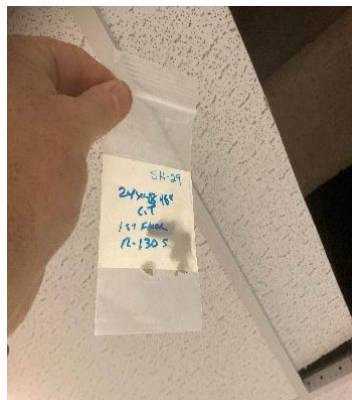


Photo 1

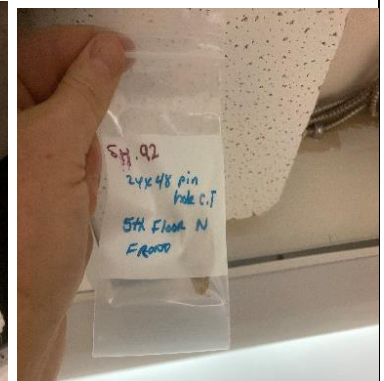


Photo 2

4.1.10 Other Building Materials

A suspect brown acoustic wall board was observed and sampled on the first floor above the ceiling tiles in the south block. The material was found to be non-asbestos containing.

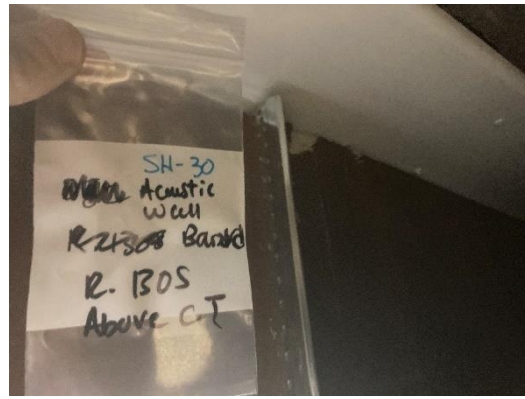


Photo 1

4.1.11 Excluded Asbestos Materials

The following is a list of materials which may contain asbestos and were excluded from the assessment. These materials are presumed to contain asbestos until otherwise proven by sampling and analysis:

- Roofing felts and tar

4.2 LEAD-BASED PAINTS

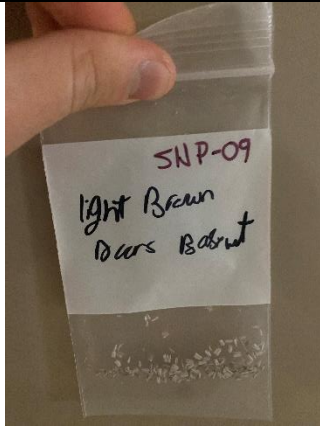
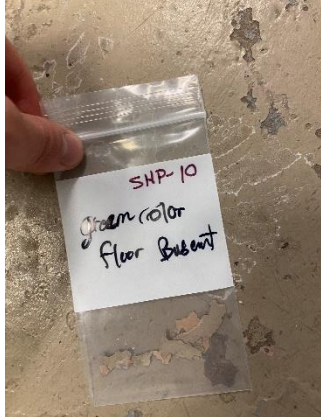

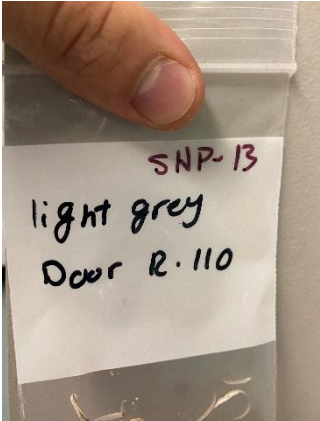
Based on the age of the buildings, lead based paints were sampled. A total of twenty-eight (28) painted surface coatings were sampled within the building and sent to the laboratory for analysis for lead in paint.

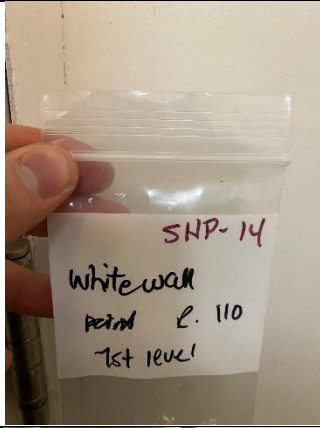
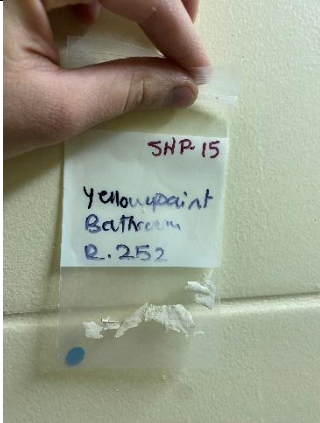
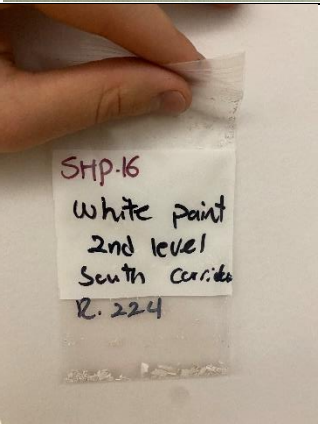

Based on the assessment findings, six (6) of the paint layers sampled exceeded CEPA guidelines of 0.06 percent by weight for surface coating materials. Exceedances are noted in bold red in table below.

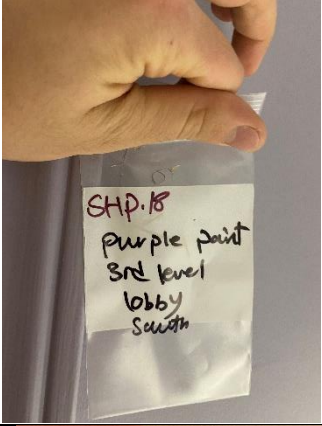

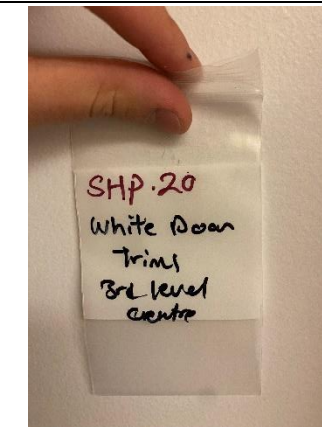
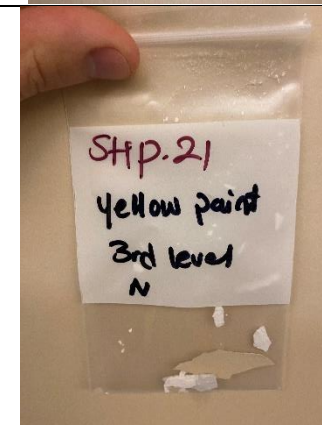
Laboratory analysis certificate is presented in Appendix II.

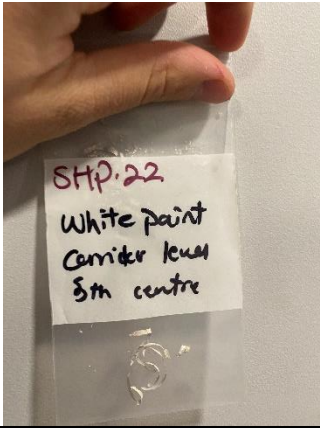
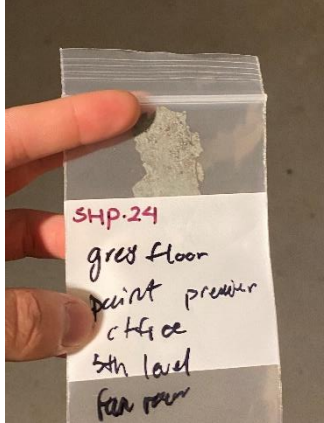
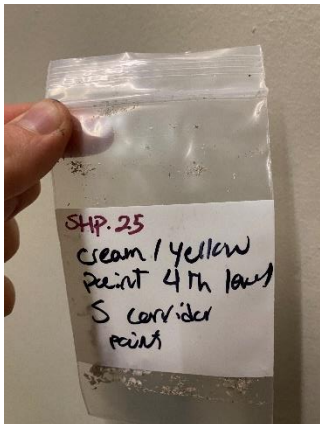
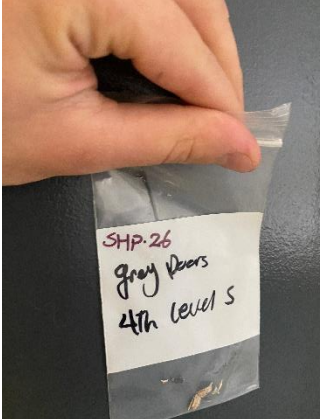
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
SHP-01	White paint / Concrete wall	Garage	0.031	
SHP-02	Brown paint / Concrete wall	Garage	0.0075	
SHP-03	Grey paint / Concrete floor	Garage	0.15	
SHP-04	Yellow paint / Concrete	Garage	1.9	

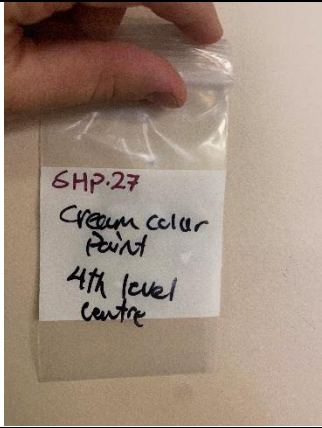
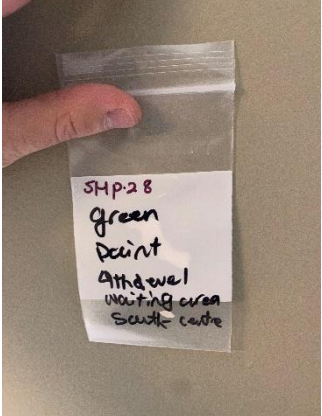
SHP-05	Cream color paint / Concrete wall	Boiler room	0.22	
SHP-06	Red paint / Concrete floor	Boiler room	0.20	
SHP-07	White paint / Door trims	Basement	0.0059	
SHP-08	White paint / Concrete wall	Basement	<0.0085	

SHP-09	Light brown paint / Doors	Basement	< 0.0084	
SHP-10	Cream color paint / Concrete floor	Basement	< 0.0073	
SHP-11	Blue paint / Wall surface	Room 110 – North	< 0.0075	
SHP-12	Brown paint / Ceiling above ceiling tile	Room 110 – North	0.85	
SHP-13	Light grey paint / Door	Room 110 – North	< 0.015	

SHP-14	White paint / Wall surface	Room 110 – North	void	
SHP-15	Yellow paint / Concrete wall	Room 252 - Washroom	< 0.0099	
SHP-16	White paint / Wall surface	2 nd level – south corridor 224	0.23	
SHP-17	Dark blue paint / Door	2 nd level – south Room 221	< 0.014	

SHP-18	Purple paint / Wall surface	3 rd level – south Lobby	< 0.0081	
SHP-19	Yellow paint / Wall surface	3 rd level- center	0.012	
SHP-20	White paint / Door trim	3 rd level- center	< 0.017	
SHP-21	Yellow paint / Wall surface	3 rd level- north	0.041	

SHP-22	White paint / Wall surface	5 th level- center	< 0.097	
SHP-23	Grey paint / Door	5 th level- center	void	
SHP-24	Grey paint / Floor	5 th level- fan room	0.037	
SHP--25	Cream colour paint / Wall surface	4 th level- south Corridor	0.014	
SHP-26	Grey paint / Door	4 th level- south	0.058	

SHP-27	Cream colour paint / Wall surface	4 th level- center	0.031	
SHP-28	Green / Wall surface	4 th level- center Waiting area	0.019	

4.3 POLYCHLORINATED BIPHENYLS (PCB's)

Some older model light fixtures and lamp ballasts were observed within the building. A variety of newer and older ballasts were observed and documented below in this section.

Confirmed PCB containing ballasts are noted below through referencing through Environment Canada's "Identification of Lamp Ballasts Containing PCB's."

Some ballasts have been replaced with various updated non-PCB containing ballasts as noted in tables below. These ballasts are labelled as No PCB's on manufacturers labels.

If lamp ballasts with different serial numbers than those identified above are encountered during removal, it should be determined whether they are PCB-containing and disposed of accordingly. Unidentified ballasts with presence of leaking oils should be treated as PCB containing ballasts. The following is the assessed records for inspected ballasts within various random locations throughout the building.

4.3.1 Lighting Lamp Ballasts

Basement

Photo 1 – GE Proline T8 Lamp Ballasts observed in Room 6A – Ballasts marked as No PCB's.



Photo 1



Photo 2

Photo 2 – Advance REL-2P32-SC Lamp Ballasts observed in maintenance storage – Ballasts marked as No PCB's.

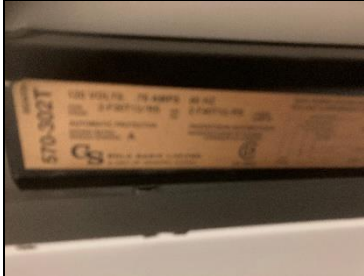


Photo 3

Photo 3 – GS Sola 570-302T Lamp Ballasts observed in maintenance storage – Ballasts confirmed as PCB ballasts through referencing.

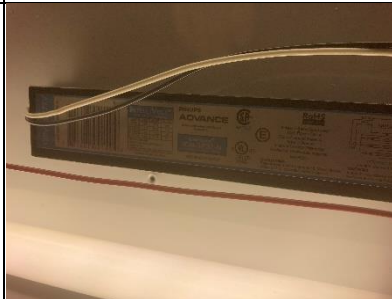


Photo 1



Photo 2

1st floor

Photo 1 – Phillips Advance Centium Lamp Ballasts observed in 1st floor south – Ballasts marked as No PCB's.

Photo 2 – Typical recessed light fixtures for these ballasts.

Photo 3 – Valmont Gold Label 17A240EW Lamp Ballasts observed in Room 110 – Ballasts confirmed as PCB ballasts through referencing.

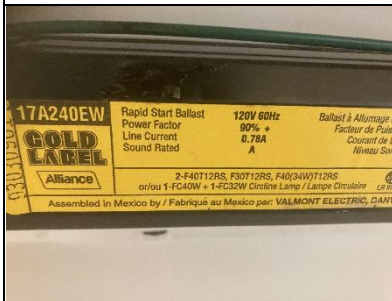


Photo 3



Photo 4

Photo 4 – light fixture with oil residue present observed in room 116.

2nd floor

Photo 1 – GE Gold Label 17A240T Lamp Ballasts observed in Room 234 – Ballasts confirmed as PCB ballasts through referencing.



Photo 1



Photo 2

Photo 2 – Typical recessed light fixtures for these ballasts.

3rd floor

Photo 1 – GE Gold Label 17A240T Lamp Ballasts observed in Room 325 – Ballasts confirmed as PCB ballasts through referencing.

Photo 2 – Typical recessed light fixtures for these ballasts.



Photo 1



Photo 2

4th floor

Photo 1 – GS Sola 570-302T Lamp Ballasts observed in Room 446 – Ballasts confirmed as PCB ballasts through referencing.

Photo 2 – Typical recessed light fixtures for these ballasts.



Photo 1



Photo 2

5th floor

Photo 1 – Advance REL-2P32-SC Lamp Ballasts observed in Room 557 & 589 – Ballasts marked as No PCB's.

Photo 2 – GS Sola 570-302T Lamp Ballasts observed in Room 446 – Ballasts confirmed as PCB ballasts through referencing.

Photo 3 – non-legible lamp ballast observed in Room 510. To be treated as PCB containing ballasts.

Photo 2 – Typical recessed light fixtures for these ballasts.



Photo 1

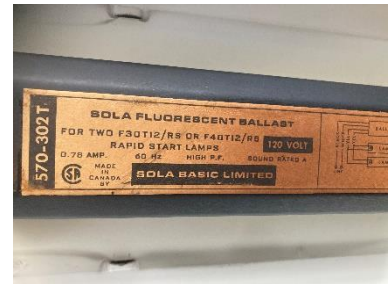


Photo 2



Photo 3

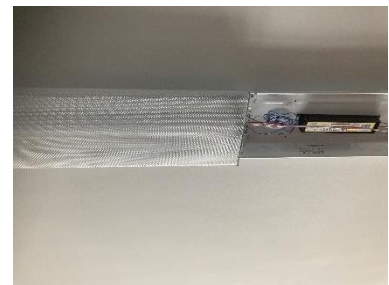


Photo 4



Photo 1



Photo 2

4.3.2 Transformers

Electrical transformer rooms on each level by elevators identified as dry transformers.



Photo 1



Photo 2

4.4 SILICA

Crystalline silica is a presumed component of the following materials:

- Concrete base and structure (exterior)
- Poured or pre-cast concrete (main and penthouse floors)
- Interior concrete block walls / mortar
- Plasters

4.5 MERCURY

4.5.1 Lighting

Mercury vapour is present in fluorescent lamp tubes.

4.5.2 Mercury Containing Devices

No mercury containing thermostats ampules were reported.

Thermostats identified as both pneumatic (photo 1) and mercury filled (photo 2).



Photo 1

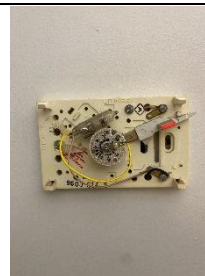


Photo 2

5 SUMMARY OF HAZARDOUS MATERIALS

A summary of the Hazardous Materials identified within the building is provided below in Table 3 based on our assessment as well as safe handling requirements. Areas identified with visually same ACM materials are outlined in Appendix III Site drawing with ACM locations.

Asbestos containing parging cement on fittings was noted in accessible areas throughout the building as have been identified in the Summary of ACM conditions and action report in Appendix IV. Floor plans have been added to Appendix III to assist in locating these areas.

Several areas were identified with solid fixed ceiling with no access above ceilings. There were some locations where wall or ceiling hatches are present, and it was confirmed that ACM pipes are present above fixed ceiling areas.

Some newer insulated pipes were also noted and were tested as non-asbestos containing. Due to the volume of pipes and various insulations used, it is not practical to assess each individual pipe fitting within the building. Therefore, all pipe fittings shall be treated as ACM's unless proven otherwise. It is imperative to implement a labelling program for pie systems within the building when new insulations are installed to avoid duplicate sampling and possible health and safety issues.

Assessment Summary of ACM conditions and action report is outlined in Appendix IV and shall be used in conjunction with PEI Department of Transportation & Infrastructure's Asbestos Management Plan (2023) and shall be subject to annual review.

Other hazardous materials identified through sampling or visual assessment are noted in section 4 and are summarized in Appendix V.

Upon review of this report and based on any planned work, renovations or demolition, a full scope of work should be developed. This scope of work will be dependent upon which materials need to be disturbed or removed prior to the renovations. Should ACM not require disturbance or removal, then those identified shall remain in place and be part of the Management Plan.

TABLE 3
Summary of Hazardous Materials for Management Plan
Shaw Building

<i>Hazardous Materials</i>	<i>Description / Comments</i>	<i>Safe Handling Requirements</i>	<i>Disposal Requirements</i>
ASBESTOS	Parging cement on mechanical pipe fittings	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other	Regulatory approval from PEIELJ
	Parging cement on mechanical duct insulation		Disposal at approved facility such as EPWMF in Wellington, PEI

	Black mastic under floor tiles	pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	
LEAD PAINT	Grey paint on concrete floor / (Basement garage)	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.
	Yellow paint on concrete / (Basement garage)		
	Cream colour paint on concrete / (Basement Boiler room)		
	Red paint on concrete floor / (Basement Boiler room)		
	Brown paint on ceiling above ceiling tiles / 1 st floor N		
	White paint on wall surface / 2 nd floor S corridor		
PCB's	- GS Sola 570-302T Lamp Ballasts - GE Gold Label 17A240T Lamp Ballasts - Valmont Gold Label 17A240EW Lamp Ballasts	TDG – manifest Trained personnel in the safe handling of PCB's and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I.	Pursuant to Chlorobiphenyls Regulations of the Canadian Environmental Protection Act (CEPA)
SILICA	Presumed in the following building components: • Concrete base and structure (exterior) • Poured or pre-cast concrete (main and penthouse floors) • Interior concrete block walls / mortar • Plasters	Trained personnel in the safe handling of silica dust and all other pertinent sections of the <i>Occupational Health and Safety Act</i> R.S.P.E.I	Regulatory approval from PEIELJ
MERCURY	fluorescent lamp tubes thermostats	Do not break lamps or separate liquid mercury from components	Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable Regulations.

6 ON-GOING MANAGEMENT & MAINTENANCE

The following recommendations are made regarding on-going management and maintenance work involving the hazardous materials identified.

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g., coring and/or removal of building finishes and components), and other materials not previously tested (e.g., roofing materials).

6.1 Asbestos

Ensure policies and procedures outlined in the buildings Asbestos Management Plan (AMP) are followed when conducting asbestos-related work at this facility.

Perform a re-assessment of asbestos-containing materials (ACM) on an annual basis. The next reassessment of ACM should be performed prior to April 2024 to remain in compliance.

Remove ACM prior to alteration or maintenance work if ACM may be disturbed by the work. Follow appropriate asbestos precautions for the classification of work being performed.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

Update the asbestos inventory upon completion of the abatement and removal of asbestos-containing materials and any other relevant findings. Upon completion, update mechanical and pipe insulation that have been re-insulated with Asbestos Free labelling (figure 1).



Figure 1

6.2 Lead

For lead-containing or lead-based paints (i.e., greater than the CEPA guidelines of 600 mg/kg (0.06 percent by weight) for surface coating materials, work procedures, engineering controls and personal protective equipment should be assessed on a site-specific basis to comply with Occupational Health and Safety regulations and Lead guidelines.

Dispose of painted materials exceeding the criteria for leachable lead as hazardous waste.

6.3 Silica

Disturbance of silica-containing products during maintenance activities may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with applicable regulations and guidelines.

6.4 Mercury

Do not break lamps or separate liquid mercury from components. Recycle and reclaim mercury from fluorescent lamps and thermostats when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

7 DISCLAIMER

The recommendations detailed in this report were carried out in a manner consistent with the level of care and skill normally exercised by reasonable members of the environmental and industrial hygiene consulting profession currently practicing under similar conditions in the area.

In preparing this report, ALL-TECH Environmental Services Limited relied on information supplied by others, including independent laboratories, and testing services. Except as expressly set out in this report, we have not made any independent verification of such information.

The recommendations in this report have been made in the context of existing industry accepted guidelines which were in place at the date of this report.

We trust this information is beneficial for assisting you in better understanding the process that has been carried out as well as the benefits and limitations of air sample results.

Should you have any questions or concerns pertaining to this report, please contact the undersigned directly.



*Larry G. Koughan, CET, CRSP
Senior Project Consultant*



APPENDIX I

Laboratory Certificate of Analysis – Asbestos PLM Samples

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551066
Client No.: SH-01

Analyst Observation: Grey Insulation
Client Description: Duct Insulation Green Wrap

Location: Boiler Rm
Facility:

Percent Asbestos:
55 Chrysotile

Percent Non-Asbestos Fibrous Material:
4 Cellulose
1 Fibrous Glass

Percent Non-Fibrous Material:
40

Sample received wet

Lab No.: 7551067
Client No.: SH-02

Analyst Observation: Grey Insulation
Client Description: Parging On Green Pipe Elbow

Location: Boiler Rm
Facility:

Percent Asbestos:
15 Chrysotile

Percent Non-Asbestos Fibrous Material:
7 Cellulose
1 Fibrous Glass

Percent Non-Fibrous Material:
77

Sample received wet

Lab No.: 7551068
Client No.: SH-03

Analyst Observation: Tan/Black Insulation
Client Description: Brown Pipe Insulation With White Parging

Location: Boiler Rm
Facility:

Percent Asbestos:
15 Chrysotile

Percent Non-Asbestos Fibrous Material:
80 Cellulose

Percent Non-Fibrous Material:
5

Lab No.: 7551069
Client No.: SH-04

Analyst Observation: Tan Gasket
Client Description: Boiler Gasket

Location: Boiler Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
100 Fibrous Glass

Percent Non-Fibrous Material:
None Detected

Lab No.: 7551070
Client No.: SH-05

Analyst Observation: Grey Insulation
Client Description: Elbow Insulation

Location: Garage
Facility:

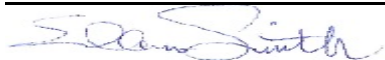
Percent Asbestos:
55 Chrysotile


Percent Non-Asbestos Fibrous Material:
7 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
36

Sample received wet

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551071 **Analyst Observation:** Lt Grey Insulation **Location:** Boiler Rm
Client No.: SH-06 **Client Description:** Parging On Elbow-Green Pipe **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
55 Chrysotile 3 Cellulose 42

Lab No.: 7551072 **Analyst Observation:** Lt Grey Insulation **Location:** Boiler Rm
Client No.: SH-07 **Client Description:** Parging On Yellow Pipe **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
45 Chrysotile 3 Cellulose 52


Lab No.: 7551073 **Analyst Observation:** Black Tar Paper **Location:** Boiler Rm
Client No.: SH-08 **Client Description:** Black Tar Paper On Green Pipe Insulation **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 80 Cellulose 20

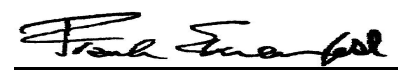
Lab No.: 7551074 **Analyst Observation:** Black Tar Paper **Location:** Garage
Client No.: SH-09 **Client Description:** Brown Mastic On Straight Run Insulation **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 80 Cellulose 20

Lab No.: 7551074(L2) **Analyst Observation:** Off-White Woven Material **Location:** Garage
Client No.: SH-09 **Client Description:** Brown Mastic On Straight Run Insulation **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 96 Cellulose 4

Lab No.: 7551075 **Analyst Observation:** Black Tar Paper **Location:** Garage
Client No.: SH-10 **Client Description:** Straight Run Insulation **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 80 Cellulose 20

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551075(L2)
Client No.: SH-10

Analyst Observation: Off-White Woven Material
Client Description: Straight Run Insulation


Location: Garage
Facility:

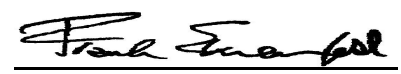
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
87 Cellulose
4 Fibrous Glass

Percent Non-Fibrous Material:
9

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551076 **Analyst Observation:** Brown Paper **Location:** Boiler Rm
Client No.: SH-11 **Client Description:** Brown Paper On Pipe Wrap **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 100 Cellulose None Detected

Lab No.: 7551077 **Analyst Observation:** Off-White Insulation **Location:** Boiler Rm
Client No.: SH-12 **Client Description:** Parging On Green Elbow **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
30 Chrysotile None Detected 70

Lab No.: 7551078 **Analyst Observation:** Grey Insulation **Location:** Boiler Rm
Client No.: SH-13 **Client Description:** Insulation On Green Duct **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 20 Fibrous Glass 80


Lab No.: 7551079 **Analyst Observation:** Grey Insulation **Location:** Garage
Client No.: SH-14 **Client Description:** Elbow Parging **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 20 Fibrous Glass 80

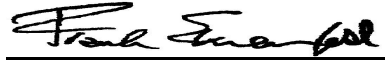
Sample received wet

Lab No.: 7551080 **Analyst Observation:** White Joint Compound **Location:** Electrical Rm-Garage
Client No.: SH-15 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Lab No.: 7551080(L2) **Analyst Observation:** Grey Joint Compound **Location:** Electrical Rm-Garage
Client No.: SH-15 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Aidan Becker

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551081
Client No.: SH-16

Analyst Observation: Grey Floor Tile
Client Description: 12x12 Grey Speckle Floor Tile Outside Elevator

Location: Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551081(L2)
Client No.: SH-16

Analyst Observation: Black Mastic
Client Description: 12x12 Grey Speckle Floor Tile Outside Elevator

Location: Basement
Facility:

Percent Asbestos:
PC 1.3 Chrysotile

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

Lab No.: 7551082
Client No.: SH-17

Analyst Observation: Grey Plaster
Client Description: Wall Plaster

Location: Basement Corridor Outside Rm B36
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551082(L2)
Client No.: SH-17

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: Basement Corridor Outside Rm B36
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551083
Client No.: SH-18

Analyst Observation: White Ceiling Tile
Client Description: 24x48 Fissure Ceiling Tile


Location: Basement Corridor Outside Rm B30
Facility:

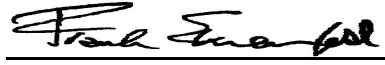
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Aidan Becker

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551084
Client No.: SH-19

Analyst Observation: White Ceiling Tile
Client Description: 24x48 Ceiling Tile

Location: Basement Corridor Outside Elevator
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7551085
Client No.: SH-20

Analyst Observation: Grey Plaster
Client Description: Plaster Wall

Location: Outside Elevator-Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551085(L2)
Client No.: SH-20

Analyst Observation: White Plaster
Client Description: Plaster Wall

Location: Outside Elevator-Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551086	Analyst Observation: White Joint Compound	Location: Corridor Outside Rm B12
Client No.: SH-21	Client Description: Drywall Joint Compound	Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7551087	Analyst Observation: White/Grey Floor Tile	Location: Basement Bathroom
Client No.: SH-22	Client Description: 12x12 Beige Speckle Floor Tile	Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7551087(L2)	Analyst Observation: Black/Grey Mastic/Leveling Compound	Location: Basement Bathroom
Client No.: SH-22	Client Description: 12x12 Beige Speckle Floor Tile	Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100


Layers not separable.

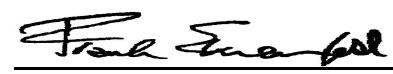
Lab No.: 7551088	Analyst Observation: White Joint Compound	Location: Women's Bathroom-Basement
Client No.: SH-23	Client Description: Drywall Joint Compound	Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7551089	Analyst Observation: White Plaster	Location: Corridor Outside Rm 6A-Basement
Client No.: SH-24	Client Description: Plaster Wall	Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7551089(L2)	Analyst Observation: Pink Plaster	Location: Corridor Outside Rm 6A-Basement
Client No.: SH-24	Client Description: Plaster Wall	Facility:
<u>Percent Asbestos:</u> PC Trace Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose Trace Hair	<u>Percent Non-Fibrous Material:</u> 98

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Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: David Hayes

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5


Client: ALL131

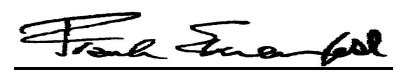
Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551090 Client No.: SH-25	Analyst Observation: White/Tan Ceiling Tile Client Description: 24x48 Fissure Ceiling Tile	Location: Basement Corridor-North Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 75 Cellulose	<u>Percent Non-Fibrous Material:</u> 25
Lab No.: 7551091 Client No.: SH-26	Analyst Observation: Lt Grey Insulation Client Description: Parging On White Pipe Elbow	Location: Basement Corridor-Outside Rm B29 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7551092 Client No.: SH-27	Analyst Observation: White Insulation Client Description: Parging On Elbow	Location: Basement-Mechanical Rm B1 Facility:
<u>Percent Asbestos:</u> <i>20 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 79
Lab No.: 7551093 Client No.: SH-28	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Basement-Corridor-West Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551093(L2) Client No.: SH-28	Analyst Observation: Pink Plaster Client Description: Wall Plaster	Location: Basement-Corridor-West Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551094 Client No.: SH-29	Analyst Observation: White/Tan Ceiling Tile Client Description: 24x48 Ceiling Tile	Location: 1st Floor-Rm 130-South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Cellulose 10 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 20

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Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: David Hayes

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551095 **Analyst Observation:** Tan/Brown Ceiling Tile
Client No.: SH-30 **Client Description:** Acoustic Wallboard **Location:** Above The Ceiling Tile-Rm 130-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 70 Cellulose 20
10 Fibrous Glass

Lab No.: 7551096 **Analyst Observation:** Off-White Joint Compound
Client No.: SH-31 **Client Description:** Drywall Joint Compound **Location:** 1st Floor-Rm 130-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7551097 **Analyst Observation:** Off-White Joint Compound
Client No.: SH-32 **Client Description:** Drywall Joint Compound **Location:** 1st Level-Rm 134-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

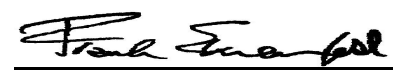
Lab No.: 7551098 **Analyst Observation:** White/Tan Ceiling Tile
Client No.: SH-33 **Client Description:** 24x48 Fissure Ceiling Tile **Location:** Rm 134-1st Floor-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 65 Cellulose 30
5 Fibrous Glass

Lab No.: 7551099 **Analyst Observation:** White Joint Compound
Client No.: SH-34 **Client Description:** Drywall Joint Compound **Location:** Rm 134 South-1st Floor
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551100 **Analyst Observation:** White/Tan Ceiling Tile
Client No.: SH-35 **Client Description:** 24x48 Fissure Ceiling Tile **Location:** Rm 134-1st Floor-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 65 Cellulose 30
5 Fibrous Glass

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Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: David Hayes

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5


Client: ALL131

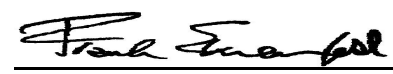
Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551101 Client No.: SH-36 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 1st Floor-South Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551101(L2) Client No.: SH-36 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Pink Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	Location: 1st Floor-South Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551102 Client No.: SH-37 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Restrooms-Stairway-1st Level Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551102(L2) Client No.: SH-37 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Pink Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose Trace Hair	Location: Restrooms-Stairway-1st Level Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551103 Client No.: SH-38 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White/Tan Ceiling Tile Client Description: 24x48 Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 70 Cellulose 5 Fibrous Glass	Location: Rm 163-South Facility: <u>Percent Non-Fibrous Material:</u> 25
Lab No.: 7551104 Client No.: SH-39 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Joint Compound Client Description: Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Rm 163-1st Floor-South Facility: <u>Percent Non-Fibrous Material:</u> 100

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Signature: 
Analyst: David Hayes

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Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551106
Client No.: SH-40

Analyst Observation: White/Tan Ceiling Tile
Client Description: 24x48 Fissure Ceiling Tile

Location: 1st Floor South-Room 163
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
70 Cellulose
5 Fibrous Glass

Percent Non-Fibrous Material:
25

Lab No.: 7551106
Client No.: SH-41

Analyst Observation: White/Tan Ceiling Tile
Client Description: 24x48 Fissure Ceiling Tile

Location: 1st Floor North-Rm 116
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
70 Cellulose
5 Fibrous Glass

Percent Non-Fibrous Material:
25

Lab No.: 7551107
Client No.: SH-42

Analyst Observation: White Plaster
Client Description: Plaster Wall

Location: Rm 110-Washroom Stairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551107(L2)
Client No.: SH-42

Analyst Observation: Pink Plaster
Client Description: Plaster Wall

Location: Rm 110-Washroom Stairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
Trace Cellulose
Trace Hair

Percent Non-Fibrous Material:
100

Lab No.: 7551108
Client No.: SH-43

Analyst Observation: Off-White Joint Compound
Client Description: Drywall Joint Compound


Location: 1st Floor-North-Rm 110
Facility:

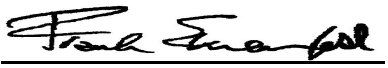
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: David Hayes

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/16/2023 Report No.: 675964 - PLM Project: Shaw Bldg Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551109 Client No.: SH-44 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Floor Tile Client Description: 12x12 Grey Speckle Floor Tile <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Kitchen-Rm 110-North Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551109(L2) Client No.: SH-44 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Mastic Client Description: 12x12 Grey Speckle Floor Tile <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Kitchen-Rm 110-North Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551109(L3) Client No.: SH-44 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Leveling Compound Client Description: 12x12 Grey Speckle Floor Tile <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Kitchen-Rm 110-North Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551110 Client No.: SH-45 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Rm 252-2nd Level-North Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551110(L2) Client No.: SH-45 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> 1 Hair	Location: Rm 252-2nd Level-North Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7551111 Client No.: SH-46 <u>Percent Asbestos:</u> <i>65 Chrysotile</i>	Analyst Observation: Off-White Insulation Client Description: Pipe Parging On Hanger <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Above Ceiling Tile-Rm 252-2nd Level-North Facility: <u>Percent Non-Fibrous Material:</u> 35

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551112 **Analyst Observation:** White/Tan Ceiling Tile **Location:** Rm 252-2nd Level-North
Client No.: SH-47 **Client Description:** 24x48 Fissure Ceiling Tile **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 65 Cellulose 10
25 Mineral Wool

Lab No.: 7551113 **Analyst Observation:** White Plaster **Location:** Rm 252-2nd Level-North
Client No.: SH-48 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100


Lab No.: 7551113(L2) **Analyst Observation:** Brown Plaster **Location:** Rm 252-2nd Level-North
Client No.: SH-48 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 1 Hair 99

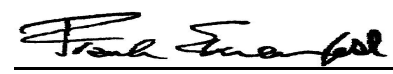
Lab No.: 7551114 **Analyst Observation:** White Plaster **Location:** Rm 252-2nd Level-North
Client No.: SH-49 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Lab No.: 7551114(L2) **Analyst Observation:** Brown Plaster **Location:** Rm 252-2nd Level-North
Client No.: SH-49 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 1 Hair 99

Lab No.: 7551115 **Analyst Observation:** Black/Silver Wrap **Location:** Rm 252-North
Client No.: SH-50 **Client Description:** Black Tar Paper On Pipe Insulation **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 45 Cellulose 55

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Laboratory Director

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Client: ALL-TECH Environmental Services Limited
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Bedford NS B4A 2Z5


Client: ALL131

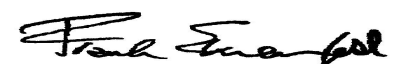
Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551116 Client No.: SH-51 <u>Percent Asbestos:</u> 55 Chrysotile	Analyst Observation: Off-White Insulation Client Description: Parging On Elbow Insulation Pipe Chase <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor-Corridor-Centre Facility: <u>Percent Non-Fibrous Material:</u> 45
Lab No.: 7551117 Client No.: SH-52 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor-Corridor-Centre Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551117(L2) Client No.: SH-52 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> 1 Hair	Location: 2nd Floor-Corridor-Centre Facility: <u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7551118 Client No.: SH-53 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor-Centre-Corridor Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551118(L2) Client No.: SH-53 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	Location: 2nd Floor-Centre-Corridor Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551119 Client No.: SH-54 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 2nd Floor-Centre Facility: <u>Percent Non-Fibrous Material:</u> 100

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Date Received: 1/9/2023
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Signature: 
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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5


Client: ALL131

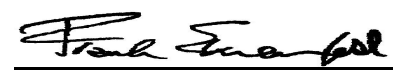
Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551119(L2) Client No.: SH-54	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: 2nd Floor-Centre Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551120 Client No.: SH-55	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Corridor Outside Rm 224-2nd Level-South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551120(L2) Client No.: SH-55	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: Corridor Outside Rm 224-2nd Level-South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551121 Client No.: SH-56	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Rm 221-2nd Level-South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551121(L2) Client No.: SH-56	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: Rm 221-2nd Level-South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551122 Client No.: SH-57	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: Corridor Outside Rm 205-2nd Level-South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551122(L2) **Analyst Observation:** Brown Plaster **Location:** Corridor Outside Rm 205-2nd
Client No.: SH-57 **Client Description:** Wall Plaster Level-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected Trace Hair 100

Lab No.: 7551123 **Analyst Observation:** Tan Vinyl Sheet Flooring **Location:** 2nd Level-Corridor-South
Client No.: SH-58 **Client Description:** Tan Vinyl Sheet Flooring **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 55 Cellulose 45


Lab No.: 7551123(L2) **Analyst Observation:** Tan Mastic **Location:** 2nd Level-Corridor-South
Client No.: SH-58 **Client Description:** Tan Vinyl Sheet Flooring **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

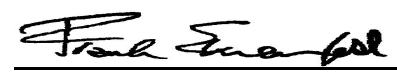
Lab No.: 7551124 **Analyst Observation:** Gold Floor Tile **Location:** 2nd Level-South-Corridor
Client No.: SH-59 **Client Description:** 12x12 Gold Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551124(L2) **Analyst Observation:** Yellow Mastic **Location:** 2nd Level-South-Corridor
Client No.: SH-59 **Client Description:** 12x12 Gold Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551125 **Analyst Observation:** White/Tan Ceiling Tile **Location:** 2nd Level-South-Reception
Client No.: SH-60 **Client Description:** 24x48 Fissure Ceiling Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 65 Cellulose 15
20 Mineral Wool

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20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551126 **Analyst Observation:** Green Floor Tile **Location:** 3rd Level-South-Corridor
Client No.: SH-61 **Client Description:** 12x12 Green Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551126(L2) **Analyst Observation:** Yellow Mastic **Location:** 3rd Level-South-Corridor
Client No.: SH-61 **Client Description:** 12x12 Green Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7551127 **Analyst Observation:** White Plaster **Location:** 3rd Level-South-Rm 323
Client No.: SH-62 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

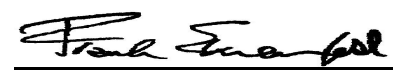
Lab No.: 7551127(L2) **Analyst Observation:** Brown Plaster **Location:** 3rd Level-South-Rm 323
Client No.: SH-62 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected Trace Hair 100

Lab No.: 7551128 **Analyst Observation:** White Plaster **Location:** 3rd Level-South-Corridor
Client No.: SH-63 **Client Description:** Wall Plaster Outside Rm 373
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551128(L2) **Analyst Observation:** Brown Plaster **Location:** 3rd Level-South-Corridor
Client No.: SH-63 **Client Description:** Wall Plaster Outside Rm 373
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected Trace Hair 100

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Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
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Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551129 **Analyst Observation:** White Plaster **Location:** Corridor Outside Rm 377-3rd
Client No.: SH-64 **Client Description:** Wall Plaster Level-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551129(L2) **Analyst Observation:** Brown Plaster **Location:** Corridor Outside Rm 377-3rd
Client No.: SH-64 **Client Description:** Wall Plaster Level-South
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected Trace Hair 100


Lab No.: 7551130 **Analyst Observation:** Blue Floor Tile **Location:** 3rd Level-Centre Corridor
Client No.: SH-65 **Client Description:** 12x12 Lt Blue Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

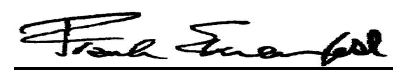
Lab No.: 7551130(L2) **Analyst Observation:** Yellow Mastic **Location:** 3rd Level-Centre Corridor
Client No.: SH-65 **Client Description:** 12x12 Lt Blue Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551131 **Analyst Observation:** Beige/Grey Floor Tile **Location:** 3rd Level Corridor-Rm 336
Client No.: SH-66 **Client Description:** Beige 18" Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551131(L2) **Analyst Observation:** Yellow Mastic **Location:** 3rd Level Corridor-Rm 336
Client No.: SH-66 **Client Description:** Beige 18" Floor Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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Client: ALL131

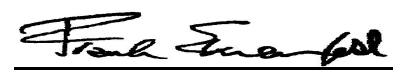
Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551132 Client No.: SH-67	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 3rd Level-Centre-Corridor Outside Rm 338 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551132(L2) Client No.: SH-67	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: 3rd Level-Centre-Corridor Outside Rm 338 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Hair	<u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7551133 Client No.: SH-68	Analyst Observation: Grey Floor Tile Client Description: 12x12 Grey Floor Tile	Location: 3rd Level-Centre-Rm 334 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<i>Insufficient mastic to analyze</i>		
Lab No.: 7551134 Client No.: SH-69	Analyst Observation: White Joint Compound Client Description: Drywall Joint Compound	Location: 3rd Level-Centre-Corridor Outside Rm 334 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551135 Client No.: SH-70	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 3rd Level-Centre-Corridor Outside Rm 342 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551135(L2) Client No.: SH-70	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: 3rd Level-Centre-Corridor Outside Rm 342 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100

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Laboratory Director

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20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
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Project No.: PE22400

Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551136
Client No.: SH-71

Analyst Observation: White/Tan Ceiling Tile
Client Description: 24x48 Fissure Ceiling Tile

Location: 3rd Level-Centre
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
65 Cellulose
20 Mineral Wool

Percent Non-Fibrous Material:
15

Lab No.: 7551137
Client No.: SH-72

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: 3rd Floor North Stairwell
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551137(L2)
Client No.: SH-72

Analyst Observation: Brown Plaster
Client Description: Wall Plaster

Location: 3rd Floor North Stairwell
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
Trace Hair

Percent Non-Fibrous Material:
100

Lab No.: 7551138
Client No.: SH-73

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: 3rd Floor North Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551138(L2)
Client No.: SH-73

Analyst Observation: Brown Plaster
Client Description: Wall Plaster

Location: 3rd Floor North Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
Trace Hair

Percent Non-Fibrous Material:
100

Lab No.: 7551139
Client No.: SH-74

Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound


Location: 3rd Level North Corridor
Facility:

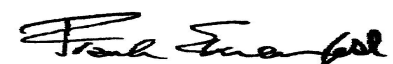
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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Date Received: 1/9/2023
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551140
Client No.: SH-75

Analyst Observation: White/Tan Ceiling Tile
Client Description: 24x48 Fissure Ceiling Tile

Location: 3rd Level North Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
55 Cellulose
25 Mineral Wool

Percent Non-Fibrous Material:
20

Lab No.: 7551141
Client No.: SH-76

Analyst Observation: White/Blue Floor Tile
Client Description: 12x12 White Speckle Floor Tile

Location: Kitchen 3rd Level North
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551141(L2)
Client No.: SH-76

Analyst Observation: Black Mastic
Client Description: 12x12 White Speckle Floor Tile

Location: Kitchen 3rd Level North
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551142
Client No.: SH-77

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: 3rd Level North Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551142(L2)
Client No.: SH-77

Analyst Observation: Brown Plaster
Client Description: Wall Plaster

Location: 3rd Level North Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Hair

Percent Non-Fibrous Material:
99

Lab No.: 7551143
Client No.: SH-78

Analyst Observation: White Plaster
Client Description: Ceiling Plaster


Location: 3rd Floor Lobby Between Center
And North

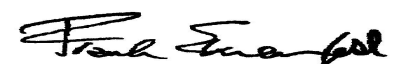
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551143(L2) **Analyst Observation:** Brown Plaster **Location:** 3rd Floor Lobby Between Center
Client No.: SH-78 **Client Description:** Ceiling Plaster **And North**
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 1 Hair 99

Lab No.: 7551144 **Analyst Observation:** White Plaster **Location:** 4th Level North Corridor
Client No.: SH-79 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7551144(L2) **Analyst Observation:** Brown Plaster **Location:** 4th Level North Corridor
Client No.: SH-79 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected Trace Hair 100

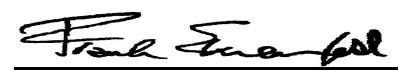
Lab No.: 7551145 **Analyst Observation:** White Plaster **Location:** 4th Level North Corridor
Client No.: SH-80 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7551145(L2) **Analyst Observation:** Brown Plaster **Location:** 4th Level North Corridor
Client No.: SH-80 **Client Description:** Wall Plaster **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 1 Hair 99

Lab No.: 7551146 **Analyst Observation:** White Joint Compound **Location:** 4th Level North Corridor
Client No.: SH-81 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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Client: ALL131

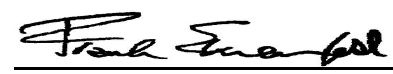
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Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551147 Client No.: SH-82	Analyst Observation: White Joint Compound Client Description: Drywall Joint Compound	Location: 4th Level North Corridor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551148 Client No.: SH-83	Analyst Observation: Black/Silver Wrap Client Description: Black Tar Paper/Pipe Wrap	Location: 4th Floor North Janitor Rm Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose	<u>Percent Non-Fibrous Material:</u> 50
Lab No.: 7551149 Client No.: SH-84	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: 4th Floor North Fan Rm Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551150 Client No.: SH-85	Analyst Observation: Off-White Insulation Client Description: Parging On Elbow	Location: 4th Floor North Fan Rm Facility:
<u>Percent Asbestos:</u> <i>50 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 50
Lab No.: 7551151 Client No.: SH-86	Analyst Observation: Off-White Insulation Client Description: Parging On Duct Insulation	Location: 4th Floor North Fan Rm Facility:
<u>Percent Asbestos:</u> <i>50 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<u>Percent Non-Fibrous Material:</u> 35
Lab No.: 7551152 Client No.: SH-87	Analyst Observation: Beige Floor Tile Client Description: 12x12 Beige Speckle Floor Tile	Location: 4th Level North Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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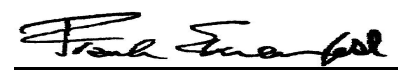
Client: ALL131

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551152(L2) Client No.: SH-87	Analyst Observation: Yellow Mastic Client Description: 12x12 Beige Speckle Floor Tile	Location: 4th Level North Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551153 Client No.: SH-88	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 5th Level North Corridor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551153(L2) Client No.: SH-88	Analyst Observation: Grey Plaster Client Description: Wall Plaster	Location: 5th Level North Corridor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551154 Client No.: SH-89	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 5th Level North Corridor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551154(L2) Client No.: SH-89	Analyst Observation: Brown Plaster Client Description: Wall Plaster	Location: 5th Level North Corridor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551155 Client No.: SH-90	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 5th Level North Corridor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Client: ALL131

Report Date: 1/16/2023
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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551155(L2)
Client No.: SH-90

Analyst Observation: Brown Plaster
Client Description: Wall Plaster

Location: 5th Level North Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
Trace Hair

Percent Non-Fibrous Material:
100

Lab No.: 7551156
Client No.: SH-91

Analyst Observation: White Plaster
Client Description: Ceiling Plaster

Location: 5th Level North Front
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551156(L2)
Client No.: SH-91

Analyst Observation: Brown Plaster
Client Description: Ceiling Plaster

Location: 5th Level North Front
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
Trace Hair

Percent Non-Fibrous Material:
100

Lab No.: 7551157
Client No.: SH-92

Analyst Observation: White/Tan Ceiling Tile
Client Description: 24x48 Pinhole Ceiling Tile

Location: 5th Floor North Front
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
55 Cellulose
25 Mineral Wool

Percent Non-Fibrous Material:
20

Lab No.: 7551158
Client No.: SH-93

Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound

Location: 5th Floor North Front
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551159
Client No.: SH-94

Analyst Observation: White Wrap
Client Description: Parging On Fitting

Location: 5th Floor Janitor Rm North
Facility:


Percent Asbestos:
None Detected

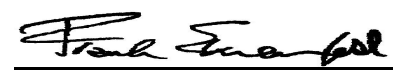
Percent Non-Asbestos Fibrous Material:
75 Cellulose

Percent Non-Fibrous Material:
25

Sample received wet

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551159(L2)	Analyst Observation: Grey Insulation	Location: 5th Floor Janitor Rm North
Client No.: SH-94	Client Description: Parging On Fitting	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
65 Chrysotile	None Detected	35

Sample received wet

Lab No.: 7551160	Analyst Observation: Tan Cementitious	Location: 5th Floor Janitor Rm North
Client No.: SH-95	Client Description: Parging On Wall	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100


Lab No.: 7551161	Analyst Observation: White Floor Tile	Location: 5th Floor North Corridor
Client No.: SH-96	Client Description: 12x12 Speckle Floor Tile	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100

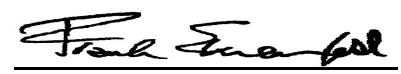
Lab No.: 7551161(L2)	Analyst Observation: Yellow Mastic	Location: 5th Floor North Corridor
Client No.: SH-96	Client Description: 12x12 Speckle Floor Tile	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100

Lab No.: 7551162	Analyst Observation: White Plaster	Location: 5th Floor Center Corridor
Client No.: SH-97	Client Description: Wall Plaster	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100

Lab No.: 7551162(L2)	Analyst Observation: Brown Plaster	Location: 5th Floor Center Corridor
Client No.: SH-97	Client Description: Wall Plaster	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	Trace Hair	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551163
Client No.: SH-98
Analyst Observation: White Plaster
Client Description: Wall Plaster
Location: 5th Floor Center Corridor
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100


Lab No.: 7551163(L2)
Client No.: SH-98
Analyst Observation: Brown Plaster
Client Description: Wall Plaster
Location: 5th Floor Center Corridor
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: Trace Hair
Percent Non-Fibrous Material: 100

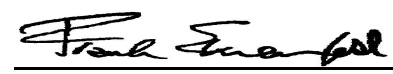
Lab No.: 7551164
Client No.: SH-99
Analyst Observation: White Plaster
Client Description: Wall Plaster
Location: 5th Floor Center Rm 557
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7551164(L2)
Client No.: SH-99
Analyst Observation: Brown Plaster
Client Description: Wall Plaster
Location: 5th Floor Center Rm 557
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Hair
Percent Non-Fibrous Material: 99

Lab No.: 7551165
Client No.: SH-100
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: 5th Floor Center Corridor
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551166
Client No.: SH-101

Analyst Observation: Tan Plaster
Client Description: Wall Plaster

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Location: Premier Office 5th Level
Facility:

Percent Non-Fibrous Material:
100

Lab No.: 7551166(L2)
Client No.: SH-101

Analyst Observation: White Plaster
Client Description: Wall Plaster

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Location: Premier Office 5th Level
Facility:

Percent Non-Fibrous Material:
100

Lab No.: 7551167
Client No.: SH-102

Analyst Observation: Tan Plaster
Client Description: Wall Plaster

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Location: Premier Office Corridor 5th Level
Facility:

Percent Non-Fibrous Material:
100

Lab No.: 7551167(L2)
Client No.: SH-102

Analyst Observation: White Plaster
Client Description: Wall Plaster

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Location: Premier Office Corridor 5th Level
Facility:

Percent Non-Fibrous Material:
100

Lab No.: 7551168
Client No.: SH-103

Analyst Observation: Tan Plaster
Client Description: Wall Plaster

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Location: Premier Office 5th Level
Facility:

Percent Non-Fibrous Material:
100

Lab No.: 7551168(L2)
Client No.: SH-103

Analyst Observation: White Plaster
Client Description: Wall Plaster


Percent Asbestos:
None Detected


Percent Non-Asbestos Fibrous Material:
None Detected

Location: Premier Office 5th Level
Facility:

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS


Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/16/2023 Report No.: 675964 - PLM Project: Shaw Bldg Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551169 Client No.: SH-104 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 5th Floor South Fan Rm Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551170 Client No.: SH-105 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Green Floor Tile Client Description: Green Vinyl Floor <u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	Location: 5th Floor Rm 522 South Facility: <u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7551170(L2) Client No.: SH-105 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Yellow/Tan Backing Material Client Description: Green Vinyl Floor <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	Location: 5th Floor Rm 522 South Facility: <u>Percent Non-Fibrous Material:</u> 90
Lab No.: 7551171 Client No.: SH-106 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Floor Tile Client Description: 12x12 Grey Floor Tile <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 4th Level South Corridor Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551171(L2) Client No.: SH-106 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Leveling Compound Client Description: 12x12 Grey Floor Tile <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 4th Level South Corridor Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551172 Client No.: SH-107 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Plaster Client Description: Wall Plaster <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: 4th Level South Corridor Facility: <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551172(L2)
Client No.: SH-107

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: 4th Level South Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551173
Client No.: SH-108

Analyst Observation: Tan Plaster
Client Description: Wall Plaster

Location: 4th Level South Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551173(L2)
Client No.: SH-108

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: 4th Level South Corridor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551174
Client No.: SH-109

Analyst Observation: Off-White Plaster
Client Description: Parging On Wall

Location: 4th Floor South Fan Rm 423
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7551175
Client No.: SH-110

Analyst Observation: Grey Pipe Material
Client Description: Parging On Duct

Location: 4th Floor South Fan Rm 423
Facility:

Percent Asbestos:
20 Chrysotile

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
80

Lab No.: 7551176
Client No.: SH-111

Analyst Observation: Off-White Joint Compound
Client Description: Drywall Joint Compound


Location: 4th Level South
Facility:


Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited 20 Duke St., Suite 109 Bedford NS B4A 2Z5	Report Date: 1/16/2023 Report No.: 675964 - PLM Project: Shaw Bldg Project No.: PE22400
Client: ALL131	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7551177 Client No.: SH-112	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: 4th Level Center Corridor Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551177(L2) Client No.: SH-112	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 4th Level Center Corridor Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551178 Client No.: SH-113	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: 4th Level Center Corridor Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551178(L2) Client No.: SH-113	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 4th Level Center Corridor Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551179 Client No.: SH-114	Analyst Observation: Tan Plaster Client Description: Wall Plaster	Location: 4th Level Center Corridor Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7551179(L2) Client No.: SH-114	Analyst Observation: White Plaster Client Description: Wall Plaster	Location: 4th Level Center Corridor Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

Appendix to Analytical Report

Customer Contact:

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675964 - PLM
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

APPENDIX II

Laboratory Certificate of Analysis – Lead Paint Samples

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675944 - Lead Paint
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7550576 **Description:** White Paint On Concrete Wall **Result (% by Weight):** 0.031
Client No.: SHP-01 **Location:** Garage **Result (ppm):** 310
Comments:

Lab No.: 7550577 **Description:** Brown Paint On Concrete Wall **Result (% by Weight):** 0.0075
Client No.: SHP-02 **Location:** Garage **Result (ppm):** 75
Comments:

Lab No.: 7550578 **Description:** Grey Floor Paint **Result (% by Weight):** 0.15
Client No.: SHP-03 **Location:** Garage **Result (ppm):** 1500
Comments:

Lab No.: 7550579 **Description:** Yellow Paint **Result (% by Weight):** 1.9
Client No.: SHP-04 **Location:** Garage **Result (ppm):** 19000
Comments: ***


Lab No.: 7550580 **Description:** Cream Color Wall Paint **Result (% by Weight):** 0.22
Client No.: SHP-05 **Location:** Boiler Room **Result (ppm):** 2200
Comments:


Lab No.: 7550581 **Description:** Red Paint **Result (% by Weight):** 0.20
Client No.: SHP-06 **Location:** Boiler Room **Result (ppm):** 2000
Comments:

Lab No.: 7550582 **Description:** White Door Trims **Result (% by Weight):** 0.0059
Client No.: SHP-07 **Location:** Basement **Result (ppm):** 59
Comments:

Lab No.: 7550583 **Description:** White Concrete Wall Paint **Result (% by Weight):** <0.0085
Client No.: SHP-08 **Location:** Basement **Result (ppm):** <85
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675944 - Lead Paint
Project: Shaw Bldg
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7550584 **Description:** Light Brown Doors **Result (% by Weight):** <0.0084
Client No.: SHP-09 **Location:** Basement **Result (ppm):** <84
Comments:

Lab No.: 7550585 **Description:** Cream Color Floor **Result (% by Weight):** <0.0073
Client No.: SHP-10 **Location:** Basement **Result (ppm):** <73
Comments:

Lab No.: 7550586 **Description:** Blue Wall Paint **Result (% by Weight):** <0.0075
Client No.: SHP-11 **Location:** Room 110 **Result (ppm):** <75
Comments: ***

Lab No.: 7550587 **Description:** Brown Paint On Ceiling Above The **Result (% by Weight):** 0.85
Client No.: SHP-12 Ceiling Tile **Result (ppm):** 8500
Location: 1st Floor North- Room 110 **Comments:**


Lab No.: 7550588 **Description:** Light Grey Door **Result (% by Weight):** <0.015
Client No.: SHP-13 **Location:** Room 110 **Result (ppm):** <150
Comments: *


Lab No.: 7550589 **Description:** White Wall Paint **Result (% by Weight):** <Void
Client No.: SHP-14 **Location:** Room 110- 1st Level **Result (ppm):** <Void
Comments: **

Lab No.: 7550590 **Description:** Yellow Paint **Result (% by Weight):** <0.0099
Client No.: SHP-15 **Location:** Bathroom- Room 252 **Result (ppm):** <99
Comments:

Lab No.: 7550591 **Description:** White Paint **Result (% by Weight):** 0.23
Client No.: SHP-16 **Location:** 2nd Level- South- Corridor- Room 224 **Result (ppm):** 2300
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 1/16/2023
Report No.: 675944 - Lead Paint
Project: Shaw Bldg
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7550592 Description: Dark Blue Door Result (% by Weight): <0.014
Client No.: SHP-17 Location: Room 221- 2nd Level- South Result (ppm): <140
Comments: * * * *

Lab No.: 7550593 Description: Purple Paint Result (% by Weight): <0.0081
Client No.: SHP-18 Location: 3rd Level- Lobby- South Result (ppm): <81
Comments: * * * *

Lab No.: 7550594 Description: Yellow Wall Paint Result (% by Weight): 0.012
Client No.: SHP-19 Location: 3rd Level- Center Result (ppm): 120
Comments:

Lab No.: 7550595 Description: White Door Trims Result (% by Weight): <0.017
Client No.: SHP-20 Location: 3rd Level- Center Result (ppm): <170
Comments: * * * *


Lab No.: 7550596 Description: Yellow Paint Result (% by Weight): 0.041
Client No.: SHP-21 Location: 3rd Level- North Result (ppm): 410
Comments: * * * *


Lab No.: 7550597 Description: White Paint Result (% by Weight): <0.0097
Client No.: SHP-22 Location: Corridor- 5th Level- Center Result (ppm): <97
Comments:

Lab No.: 7550598 Description: Grey Doors Result (% by Weight): <Void
Client No.: SHP-23 Location: 5th Level- Center Result (ppm): <Void
Comments: * *

Lab No.: 7550599 Description: Grey Floor Paint Result (% by Weight): 0.037
Client No.: SHP-24 Location: Premier Office- 5th Floor- Fan Room Result (ppm): 370
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675944 - Lead Paint
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

LEAD PAINT SAMPLE ANALYSIS SUMMARY


Lab No.: 7550600 **Description:** Cream/Yellow Paint **Result (% by Weight):** 0.014
Client No.: SHP-25 **Location:** 4th Level South- Corridor **Result (ppm):** 140
Comments:


Lab No.: 7550601 **Description:** Grey Doors **Result (% by Weight):** 0.058
Client No.: SHP-26 **Location:** 4th Level- South **Result (ppm):** 580
Comments: ***

Lab No.: 7550602 **Description:** Cream Color Paint **Result (% by Weight):** 0.031
Client No.: SHP-27 **Location:** 4th Level- Center **Result (ppm):** 310
Comments:

Lab No.: 7550603 **Description:** Green Paint **Result (% by Weight):** 0.019
Client No.: SHP-28 **Location:** 4th Level- Waiting Area- South Center **Result (ppm):** 190
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/9/2023
Date Analyzed: 01/16/2023
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675944 - Lead Paint
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

Appendix to Analytical Report:

Customer Contact:

Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Paint

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:

- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188

- NYSDOH-ELAP No. 11021

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B.

Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.006% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St., Suite 109
Bedford NS B4A 2Z5

Report Date: 1/16/2023
Report No.: 675944 - Lead Paint
Project: Shaw Bldg
Project No.: PE22400

Client: ALL131

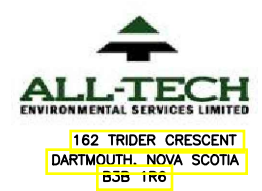
- * Insufficient sample provided to perform QC reanalysis (<200 mg)
- ** Not enough sample provided to analyze (<50 mg)
- *** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

APPENDIX III

Site Drawings with sample locations and ACM locations

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED

PE22400
SHAW BUILDING
95 ROCHFORD ST
CHARLOTTETOWN PEI

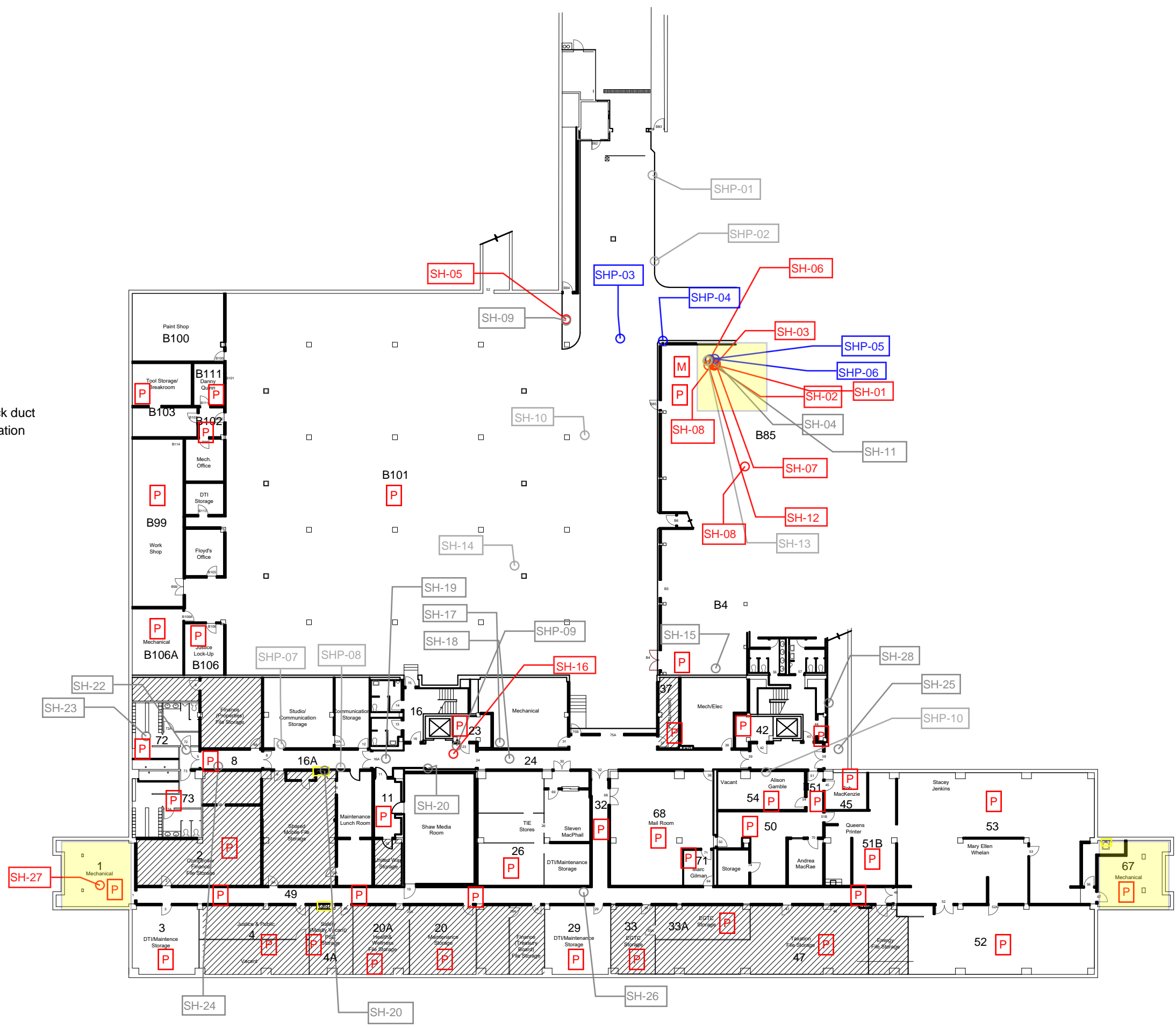
SHAW BUILDING BASEMENT FLOOR

Design: LK
Date: FEB_2023
Drawn: AJH
Date: MAR_2023

NOTE:
THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale	1 OF 6
Scale	NOT TO SCALE
Revisions	Date

Check duct insulation

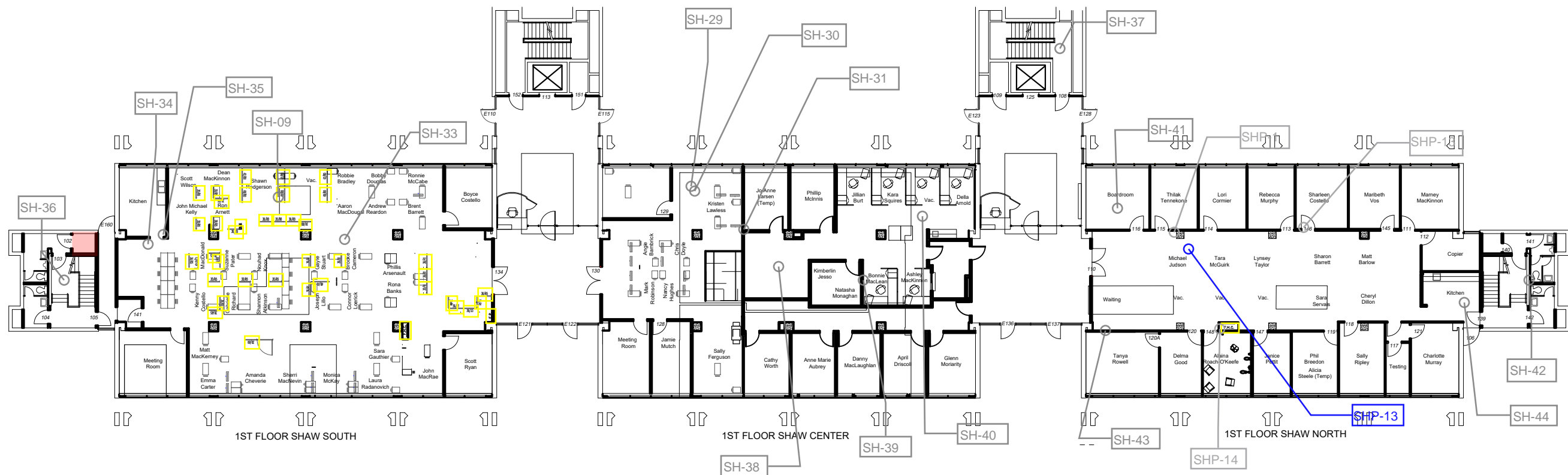


ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED



PE22400
SHAW BUILDING
95 ROCHFORD ST
CHARLOTTETOWN PEI

Drawing: SHAW BUILDING 2ND FLOOR

Design: LK
Date: FEB_2023
Drawn: AJH
Date: MAR_2023

NOTE:
THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale: 2 OF 6
Scale: NOT TO SCALE
Revisions: Date

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED

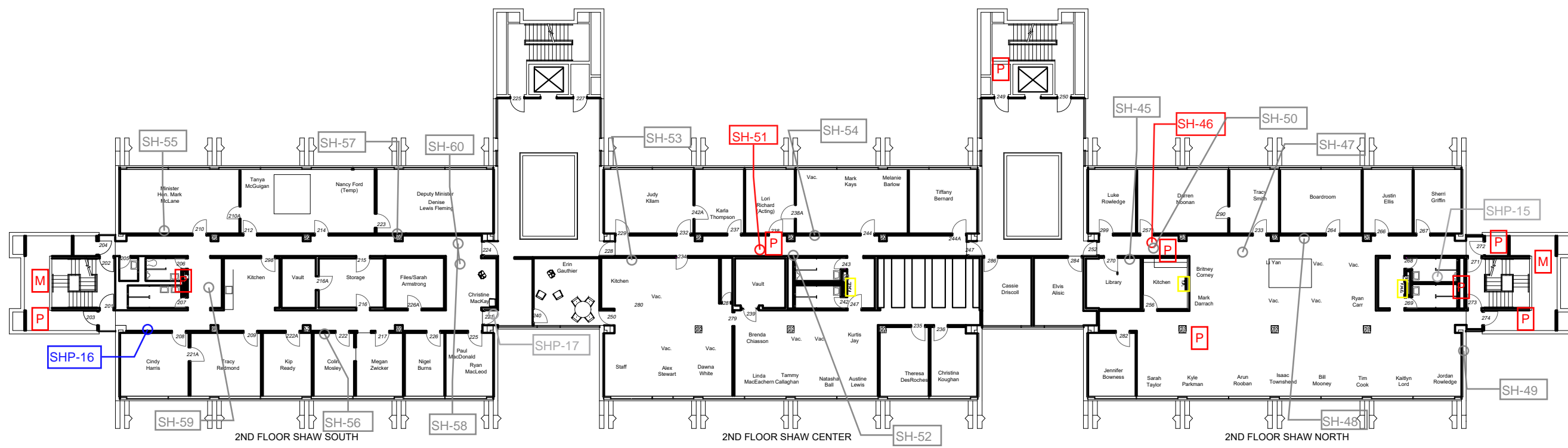
PE22400 SHAW BUILDING 95 ROCHFORD ST CHARLOTTETOWN PEI

Drawing SHAW BUILDING 2ND FLOOR

Design: LK Date: FEB_2023 Drawn: AJH Date: MAR_2023

NOTE: THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale 3 OF 6 NOT TO SCALE



fixed ceilings (no access above)

fixed ceilings (no access above)

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED

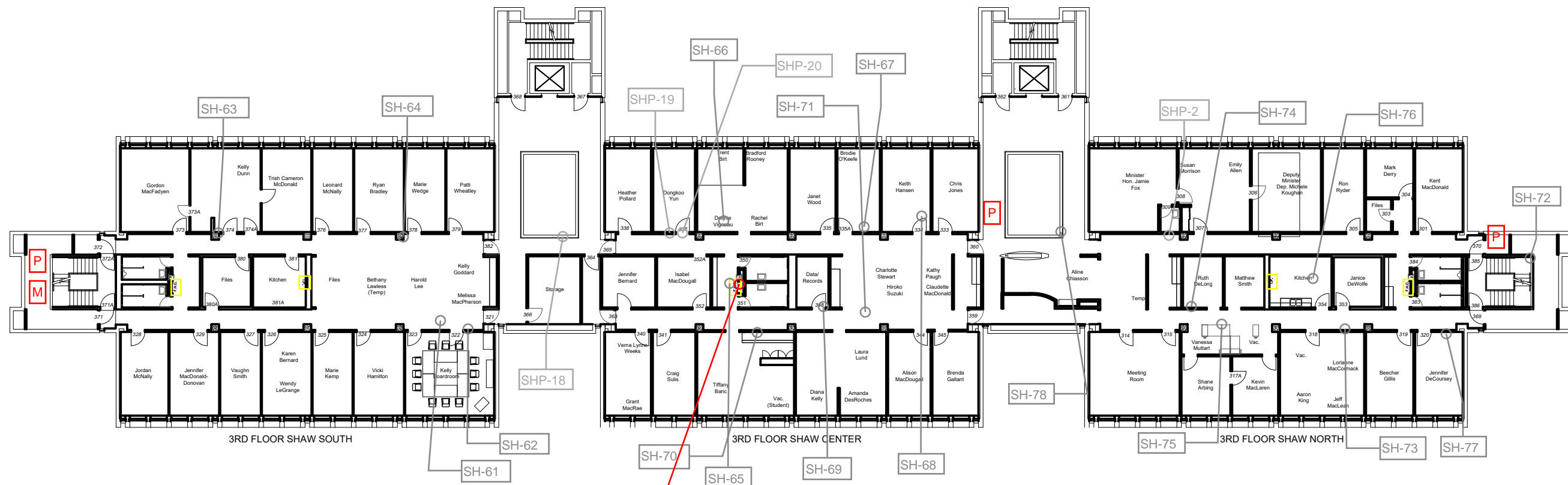
PE22400 SHAW BUILDING 95 ROCHFORD ST CHARLOTTETOWN PEI

Drawing SHAW BUILDING 3RD FLOOR

Design: LK Date: FEB_2023 Drawn: AJH Date: MAR_2023

NOTE: THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale 4 OF 6 NOT TO SCALE



P - pipe chase ACM fittings and debris on floor

fixed ceilings (no access above)

new construction area - new fibreglass pipe insulation

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED

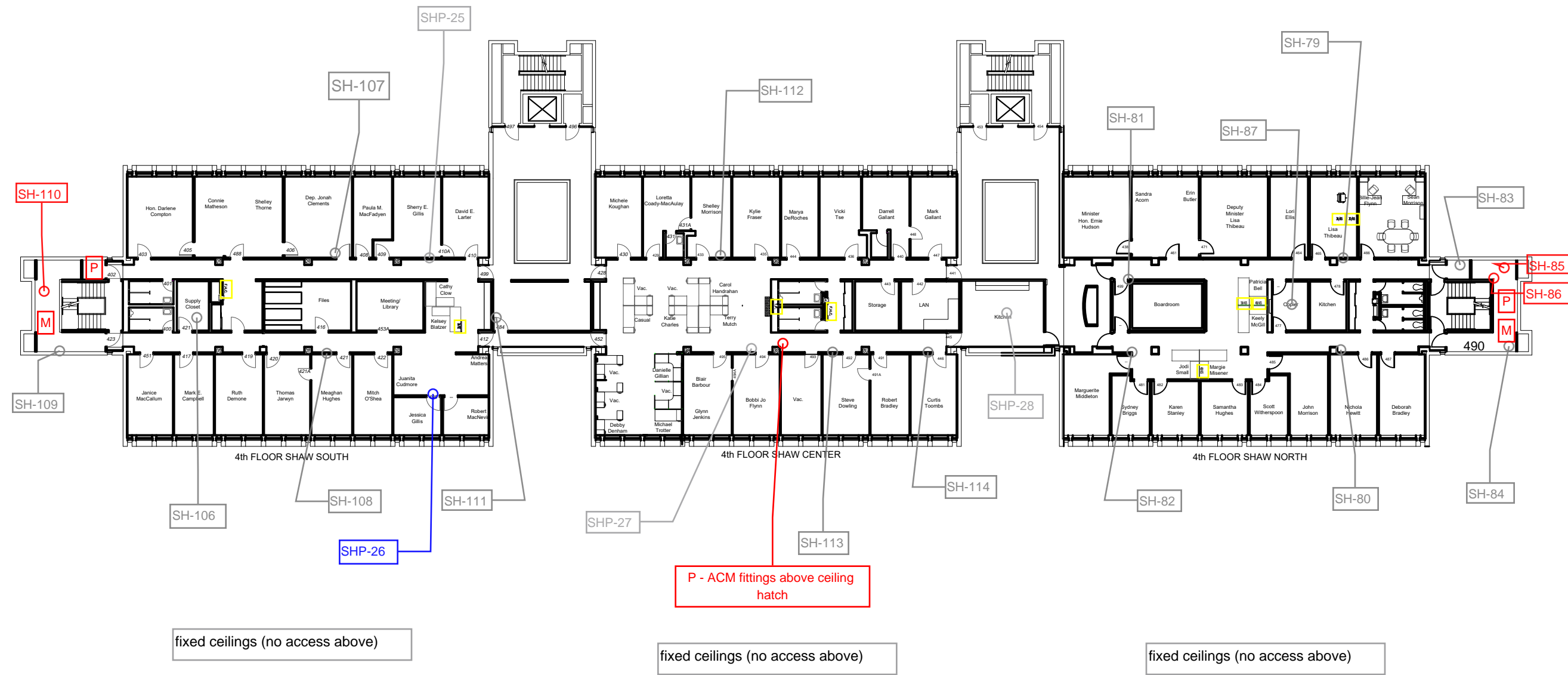
PE22400 SHAW BUILDING 95 ROCHFORD ST CHARLOTTETOWN PEI

Drawing SHAW BUILDING 4TH FLOOR

Design: LK Date: FEB_2023 Drawn: AJH Date: MAR_2023

NOTE: THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale 5 OF 6 Scale NOT TO SCALE



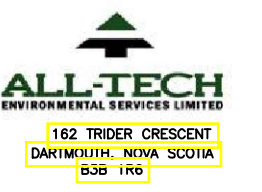
fixed ceilings (no access above)

fixed ceilings (no access above)

fixed ceilings (no access above)

P - ACM fittings above ceiling hatch

ASBESTOS SURVEY BY



ASBESTOS LEGEND

- = CEILING
- = FLOOR
- = CEILING AND FLOOR
- = UNSURVEYED AREA
- = APPLIANCE
- = MECHANICAL
- = PIPE MATERIAL
- = DUCT WORK
- = ELECTRICAL
- = ACM WALL
- = LEAD PAINT WALL
- = SAMPLE NUMBER ASBESTOS DETECTED
- = SAMPLE NUMBER NO ASBESTOS DETECTED
- = SAMPLE NUMBER LEAD DETECTED
- = SAMPLE NUMBER NO LEAD DETECTED



fixed ceilings (no access above)

fixed ceilings (no access above)

fixed ceilings (no access above)

PE22400
SHAW BUILDING
95 ROCHFORD ST
CHARLOTTETOWN PEI

Drawing SHAW BUILDING 5TH FLOOR

Design: LK Date: FEB_2023
Drawn: AJH Date: MAR_2023

NOTE:
THIS DRAWING SHOULD BE USED FOR REFERENCE PURPOSES ONLY REFER TO THE ASBESTOS AND LEAD SURVEYS FOR THE ROOM BY ROOM DATE FOR SPECIFIC DETAILS

Scale 6 OF 6
Scale NOT TO SCALE
Revisions Date


APPENDIX IV

Summary of ACM conditions report

Shaw Building (Basement) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
1	Mechanical room	SH-27	Parging cement on pipe fittings	Chrysotile 20%	12 units	F	C	Good	5	
2	File storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	24 units	F	C	12 Good 12 Poor	5 3	
3	Maintenance storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	36 units	F	C	24 Good 12 Poor	5 3	
4	Justice & public	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	15 units	F	C	9 Good 6 Poor	5 3	
4A	PSC storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	10 units	F	C	5 Good 5 Poor	5 3	
8	Corridor	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	4 units	F	C	Good	5	
11	Storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	1 units	F	C	Good	5	
20	Maintenance storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	42 units	F	C	Good	5	
20A	File storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	10 units	F	C	Poor	3	
23		VSH-05	Parging cement on pipe fittings	Chrysotile 55%	17 units	F	C	Good	5	
24	Corridor	SH-16	Black mastic under floor tile	Chrysotile 1.3%	61 m2	NF	D	Good	5	
26	Maintenance storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	5 units	F	C	Good	5	
29	Maintenance storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	10 units	F	C	Good	5	

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
32	Corridor	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	6 units	F	C	Good	5	
33	EGTC storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	12 units	F	C	Good	5	
33A	EGTC storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	20 units	F	C	10 Good 10 Poor	5 3	
37	Procurement	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	3 units	F	C	Good	5	
42	Storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	5 units	F	C	Good	5	
44	Cable room	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	15 units	F	C	Fair	5	
45	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	3 units	F	C	Good	5	
47	File storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	45 units	F	C	29 Good 16 Poor	5 3	
49	Corridor	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	42 units	F	C	27 Good 15 Poor	5 3	
50	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	3 units	F	C	Good	5	
51	Corridor	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	5 units	F	C	Good	5	
51B	Queens printer	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	4 units	F	C	Good	5	
52	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	75 units	F	C	50 Good 25 Poor	5 3	
53	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	8 units	F	C	Good	5	
54	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	3 units	F	C	Good	5	
67	Mechanical room	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	10 units	F	C	4 Good 6 Poor	5 3	

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
68	Mail room	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	8 units	F	C	Good	5	
71	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	4 units	F	C	Good	5	
72	Washroom	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	35 units	F	C	Good	5	
73	Washroom	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	18 units	F	C	Good	5	
B4	Mechanical room	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	15 units	F	C	7 Good 8 Poor	5	3
B85	Boiler room	SH-02; SH-03; SH-06; SH-07	Parging cement on pipe fittings	Chrysotile 15 - 55%	65 units	F	C	Good	5	
		SH-01	Mechanical duct insulation parging	Chrysotile 55%	6.3 m3	F	C	Good	5	
B99	Workshop	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	5 units	F	C	Good	5	
B101	Parking garage	SH-05	Parging cement on pipe fittings	Chrysotile 55%	120 units	F	C	Good	5	
B102	Vestibule	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	1 units	F	C	Good	5	
B103	Tool storage	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	3 units	F	C	Good	5	
B106	Justice lock-up	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	1 units	F	C	Good	5	
B106A	Mechanical Room	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	34 units	F	C	Good	5	

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
B111	Office	VSH-05	Parging cement on pipe fittings	Chrysotile 55%	1 units	F	C	Good	5	

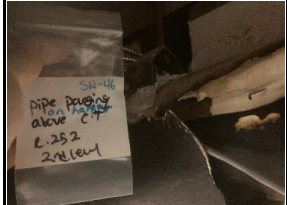
**** All black flooring mastic areas to be treated as asbestos containing material****

LEGEND			
Sample Number Identifiers		Units	
SH-##	actual sample number	EA	Each
VSH-##	visually identified same as this sample number	m	meters
		m2	square metres
		m3	cubic metres
		PACM	presumed asbestos containing material

ASSESSMENT CODES			
ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES			
1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

Shaw Building (2nd floor) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
203	South fan room	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	20 units	F	C	Good	5	
		VSH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	
206A	Pipe chase	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	1 unit	F	D	Fair	5	
228	Corridor	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	1 unit (limited access)	F	D	Poor	5	
249	Storage	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	2 units	F	C	Good	5	
252	Office area	SH-46	Parging cement on pipe fittings (hanger)	Chrysotile 65%	4 units	F	C	Poor	3	
269A	Pipe chase	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	6 units	F	D	Poor	3	
272	Janitor room	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	1 unit	F	C	Fair	5	
274	North fan room	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	22 units	F	C	Good	5	
		VSH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	

LEGEND**Sample Number Identifiers**

SH-##	actual sample number
VSH-##	visually identified same as this sample number

Units

EA	Each
m	meters
m2	square metres
m3	cubic metres


ASSESSMENT CODES

ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES

1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

Shaw Building (3rd floor) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
351A	Pipe chase	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	ACM debris	F	D	Poor	1	
370	Janitor room	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	1 unit	F	C	Good	5	
371	South fan room	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	21 units	F	C	Good	5	
		VSH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	
	Courtyard between centre and north	VSH-46	Parging cement on pipe fittings	Chrysotile 65%	2 units	F	C	Good	5	

LEGEND

Sample Number Identifiers		Units	
SH-##	actual sample number	EA	Each
VSH-##	visually identified same as this sample number	m	meters
		m2	square metres
		m3	cubic metres

ASSESSMENT CODES

ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES

1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

Shaw Building (4th floor) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
402	Janitor room	VSH-85	Parging cement on pipe fittings	Chrysotile 50%	21 Units	F	C	Good	5	
423	South fan room	VSH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	
	Center block corridor	VSH-85	Parging cement on pipe fittings	Chrysotile 50%	(limited access)	F	C	Good	5	
490	North fan room	SH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	
		SH-85	Parging cement on pipe fittings	Chrysotile 50%	14 units	F	C	Good	5	

LEGEND	
Sample Number Identifiers	
SH-##	actual sample number
VSH-##	visually identified same as this sample number
Units	
EA	Each
m	meters
m2	square metres
m3	cubic metres

ASSESSMENT CODES			
ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES			
1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

Shaw Building (5th floor) - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated Volume or Area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
502	South fan room	VSH-94	Parging cement on pipe fittings	Chrysotile 65%	8 units	F	C	Good	5	
		VSH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	
599	North fan room	SH-94	Parging cement on pipe fittings	Chrysotile 65%	2 units	F	C	Good	5	
		VSH-86	Mechanical duct insulation parging	Chrysotile 50%	2.3 m3	F	C	Good	5	

LEGEND

Sample Number Identifiers		Units	
SH-##	actual sample number	EA	Each
VSH-##	visually identified same as this sample number	m	meters
		m2	square metres
		m3	cubic metres

ASSESSMENT CODES

ACCESS		CONDITION	
A	Accessible to all building occupants	GOOD	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	FAIR	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	POOR	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES




1	Immediate Clean-up of Debris that is likely to be disturbed.	4	ACM repair
2	ACM Removal required for compliance.	5	Continued management and surveillance.
3	Proactive ACM Removal.		

APPENDIX V

Summary of other Hazardous Materials report

Shaw Building (Basement) - Summary of Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
B101	Basement parking garage	SHP-03	Grey paint / Concrete floor	0.15	All like concrete flooring to be treated as lead based paints	
B101	Basement parking garage	SHP-04	Yellow line paint / Concrete	1.9	All like painted surfaces to be treated as lead based paints	
B85	Basement boiler room	SHP-05	Cream colour paint / Concrete wall	0.22	All like painted surfaces to be treated as lead based paints	

B85	Basement boiler room	SHP-06	Red paint / Concrete floor	0.2	All like concrete flooring painted surfaces to be treated as lead based paints	
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Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Basement; exterior	NA	Concrete floor; walls; exterior concrete		

PCB's

	random ballasts throughout	NA	CGE Gold Label lamp ballasts Serial No. 17A240T and Sola Canada 570-302T confirmed PCB ballasts through Health Canada's "Identification of Lamp Ballasts containing PCB's".		
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Shaw Building (1st floor) - Summary of Hazardous Materials Report (2022)



Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
110 North	Office	SHP-12	Brown paint / Ceiling above ceiling tiles	0.085	All like painted surfaces to be treated as lead based paints	

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

PCB's

110	random ballasts throughout	NA	Valmont Electric Gold Label lamp ballasts Serial No. 17A240EW confirmed PCB ballasts through Health Canada's "Identification of Lamp Ballasts containing PCB's".	 <p style="text-align: center;">Affected light fixture</p>	
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Shaw Building (3rd floor) - Summary of Hazardous Materials Report (2022)

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

PCB's

325	random ballasts throughout	NA	CGE Gold Label lamp ballasts Serial No. 17A240T confirmed PCB ballasts through Health Canada's "Identification of Lamp Ballasts containing PCB's".	 <p style="text-align: center;">Typical lights</p>	
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Shaw Building (3rd floor) - Summary of Hazardous Materials Report (2022)

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

PCB's

325	random ballasts throughout	NA	CGE Gold Label lamp ballasts Serial No. 17A240T confirmed PCB ballasts through Health Canada's "Identification of Lamp Ballasts containing PCB's".	 <p style="text-align: center;">Typical lights</p>	
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Shaw Building (4th floor) - Summary of Hazardous Materials Report (2022)

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

PCB's

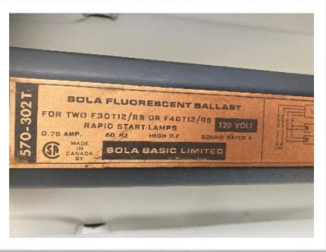
446	random ballasts throughout	NA	Sola Canada lamp ballasts Serial No. 570-302T confirmed PCB ballasts through Health Canada's "Identification of Lamp Ballasts containing PCB's".	 <p style="text-align: center;">Typical lights</p>	
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Shaw Building (5th floor) - Summary of Hazardous Materials Report (2022)

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	throughout	NA	Plasters		

PCB's

517	random ballasts throughout	NA	Sola Canada lamp ballasts Serial No. 570-302T confirmed PCB ballasts through Health Canada's "Identification of Lamp Ballasts containing PCB's".		
510		NA	Non-ledgible lamp ballasts to be treated as PCB ballasts as outlined in Health Canada's "Identification of Lamp Ballasts containing PCB's".		