



Designated Substance Survey Report

Toronto Fire Services Station 243
4560 Sheppard Avenue East,
Toronto, Ontario

Prepared for:

City of Toronto

55 John Street, 2nd Floor
Toronto, Ontario, M5V 3C6

December 21, 2020

Pinchin File: 274992.003



Designated Substance Survey Report
4560 Sheppard Avenue East, Toronto, Ontario
City of Toronto

December 21, 2020
Pinchin File: 274992.003

Issued to:	City of Toronto
Issued on:	December 21, 2020
Pinchin File:	274992.003
Issuing Office:	Toronto, ON

Author:	Abdullah Qasemzada
	Project Technologist
	365.822.1013
	aqasemzada@pinchin.com

Reviewer:	Andrew Quinn, B.Sc.
	Project Manager
	416.368.6555 ext. 1931
	aquinn@pinchin.com

Reviewer:	Scott Cryer, P.Geo.
	Operations Manager – Hazardous Materials/Radon
	905.363.1311
	scryer@pinchin.com



EXECUTIVE SUMMARY

The City of Toronto (Client) retained Pinchin Ltd. (Pinchin) to conduct a Designated Substances Survey of Toronto Fire Services Station 243, located in the building at 4560 Sheppard Avenue East, Toronto, Ontario. Pinchin performed the survey on October 26, 2020.

The objective of the survey was to document any changes in condition and quantity of specified Designated Substances, polychlorinated biphenyls (PCBs) and mould identified in the previous Designated Substances Survey (2014, Fisher Environmental Ltd., Project Number FE-P 14-6915) and develop corrective action plans as required. The results of this survey are not intended for construction, renovation, demolition or project tendering purposes.

SUMMARY OF FINDINGS

Asbestos: Asbestos-containing materials (ACM) were assumed to be present as follows:

- Roofing material
- Exterior caulking

Lead: Low levels of lead (<0.1%) were confirmed to be present in select paints. Lead may be present in emergency light batteries.

Silica: Crystalline silica is present in concrete, mortar, masonry, ceramics and plaster.

Mercury: Mercury vapour is present in light tubes.

Polychlorinated Biphenyls (PCBs): No PCB-containing materials or devices were confirmed to be present.

Mould: Visible mould growth was not observed.



SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. Perform a pre-construction survey and remove all ACM prior to alteration or maintenance work or if ACM may be disturbed by the work.
2. Recycle mercury-containing light tubes when removed from service.
3. Follow appropriate safe work procedures when handling or disturbing asbestos, lead, mercury and silica.

Please refer to Section 4.0 of this report for detailed recommendations regarding administrative actions.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.



TABLE OF CONTENTS

1.0	INTRODUCTION AND SCOPE	1
1.1	Scope of Assessment	1
2.0	BACKGROUND INFORMATION	2
2.1	Assessed Area Description	2
3.0	FINDINGS	2
3.1	Asbestos	2
3.2	Lead	5
3.3	Silica	5
3.4	Mercury	6
3.5	Polychlorinated Biphenyls	6
3.6	Mould	6
4.0	RECOMMENDATIONS	6
4.1	General	6
4.2	On-going Management and Maintenance	6
5.0	TERMS AND LIMITATIONS	7
6.0	REFERENCES	8

APPENDICES

APPENDIX I	Drawings
APPENDIX II-A	Asbestos Analytical Certificates (No Information to Report)
APPENDIX II-B	Lead Analytical Certificates (No Information to Report)
APPENDIX II-C	PCB Analytical Certificates (No Information to Report)
APPENDIX III	Methodology
APPENDIX IV	Survey Form



1.0 INTRODUCTION AND SCOPE

The City of Toronto (Client) retained Pinchin Ltd. (Pinchin) to conduct a Designated Substances Survey of Toronto Fire Services Station 243, located in the building at 4560 Sheppard Avenue East, Toronto, Ontario.

Pinchin performed the assessment on October 26, 2020. The surveyor was unaccompanied during the survey. The assessed area was occupied at the time of the assessment.

The objective of the survey was to document any changes in condition and quantity of specified Designated Substances, polychlorinated biphenyls (PCBs) and mould identified in the previous Designated Substances Survey (2014, Fisher Environmental Ltd., Project Number FE-P 14-6915) and develop corrective action plans as required. This survey is only to be used for the purposes of long-term management and routine maintenance. The results of this survey are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

For the purpose of the survey and this report, hazardous building materials include the following Designated Substances:

- Asbestos
- Lead
- Silica
- Mercury

The survey also included:

- Polychlorinated Biphenyls (PCBs)
- Mould

The following Ontario Designated Substances are not typically found in building materials in a composition/state that is hazardous and were not included in this survey:

- Arsenic
- Acrylonitrile
- Benzene
- Coke oven emissions
- Ethylene oxide
- Isocyanates
- Vinyl chloride monomer

2.0 BACKGROUND INFORMATION

2.1 Assessed Area Description

Description Item	Details
Use	Toronto Fire Station
Number of Floors	The building is one storey.
Total Area	The assessed area is approximately 5,000 square feet.
Year of Construction	The building was constructed in 1972.
Structure	Structural steel
Exterior Cladding	Brick, concrete
HVAC	Furnace and hot water heating
Roof	Not assessed
Flooring	Ceramic tile, concrete, vinyl sheet flooring
Interior Walls	Brick, drywall, concrete block
Ceilings	Plaster, texture finish, Drywall, acoustic ceiling tile

3.0 FINDINGS

3.1 Asbestos

3.1.1 Texture Finishes

Texture finish present on plaster ceilings in the Mechanical Room (Location 1-04) was previously sampled and does not contain asbestos (samples 11850-B-71-05a-e).

3.1.2 Pipe Insulation

Previously sampled paring cement is present on pipe fittings and does not contain asbestos (samples 11850-B-71-07a-c, 14-8368-05 to 07).

Pipes are either uninsulated or insulated with fibreglass and jacketed with either canvas or PVC.



Photo 1: Non-asbestos paring cement – Fire Apparatus Bay (Location 1-01).



Photo 2: Non-asbestos paring cement – Mechanical Room (Location 1-04).



Photo 3: Uninsulated pipe – Fire Apparatus Bay (Location 1-01).



Photo 4: Pipe insulated with fiberglass – Equipment Storage (Location 1-05).

3.1.3 Duct Insulation

Ducts are either uninsulated or insulated with fiberglass and jacketed with foil or canvas.



Photo 5: Uninsulated duct – Fire Apparatus Bay (Location 1-01).



Photo 6: Duct insulated with fiberglass – Supply Room (Location 1-03).

3.1.4 Mechanical Equipment Insulation

Mechanical equipment observed were uninsulated.



Photo 7: Hot water tank – Mechanical Room (Location 1-04).



Photo 8: Furnace – Mechanical Room (Location 1-04).

3.1.5 Acoustic Ceiling Tiles

Acoustic ceiling tiles are present in the assessed area, as follows:

Size, Type, Pattern	Locations	Sample Number	Asbestos Type
ACT01 – 2' x 4', Pinhole, Long Fissure	*See Survey Form in Appendix IV for locations	11850-B-71-01a-c	None detected
ACT02 – 2' x 4', Pinhole, Short Fissure	*See Survey Form in Appendix IV for locations	11850-B-71-02a-c	None detected



Photo 9: Non-asbestos ACT01.



Photo 10: Non-asbestos ACT02.

3.1.6 Plaster

Plaster present on ceilings in the Mechanical Room (Location 1-04) was previously sampled and does not contain asbestos (samples 14-8368-02 to 04).

3.1.7 Drywall Joint Compound

Previously sampled drywall joint compound present on wall and ceiling finishes in the assessed area does not contain asbestos (samples 12180-B-71-03a-g, 14-9612-04 to 06).

3.1.8 Presumed Asbestos Materials

The following is a list of materials which may contain asbestos, which were not observed and/or not sampled during the assessment; these materials are presumed to contain asbestos until otherwise proven by sampling and analysis:

- Roofing felts and tar, mastics
- Floor levelling compound
- Ceramic tile setting compound
- Vermiculite
- Adhesives and duct mastics
- Caulking and putties
- Fire resistant doors

3.2 Lead

3.2.1 Paints

The following table summarizes the analytical results for paints previously sampled and locations.

Sample Number	Colour, Substrate Description	Sampled Location	Lead (%)
Pinchin File No. 248346.001, FS243-L0001	Beige, steel deck	Office (Location 1-10)	0.026
Pinchin File No. 248346.001, FS243-L0002	Off-white, concrete block wall	Supply Room (Location 1-03)	<0.0063
Pinchin File No. 248346.001, FS243-L0003	Green, concrete block wall	Corridor (Location 1-07)	0.015

Results above 0.1% are considered elevated (i.e., greater than the EACO guideline of 0.1% for lead-containing paints). All paints were determined to be below the City of Toronto action limit of 0.1%.

3.2.2 Lead Products and Applications

Lead-containing batteries may be present in emergency lighting.



Photo 11: Emergency lighting – Fire Apparatus Bay (Location 1-01).



Photo 12: Emergency lighting – Dormitory (Location 1-09).

3.3 Silica

Crystalline silica is a presumed component of the following materials:

- Poured or pre-cast concrete
- Masonry and mortar
- Ceramic tiles and grout
- Plaster



3.4 Mercury

3.4.1 Lamps

Mercury vapour is present in fluorescent lamps.

3.4.2 Mercury-Containing Devices

Mercury-containing devices were not found during the assessment.

3.5 Polychlorinated Biphenyls

3.5.1 Lighting Ballasts

Based on visual observations (evidence of T-8 fixtures) the building has been comprehensively re-lamped and will not contain PCB ballasts.

3.5.2 Transformers

Transformers were not found during the assessment.

3.6 Mould

Visible mould growth was not observed during the assessment.

4.0 RECOMMENDATIONS

4.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (i.e. coring and/or removal of building finishes and components), and sampling of materials not previously tested (i.e. roofing materials, caulking, mastics). This report does not provide sufficient detail for most renovation or demolition.

4.2 On-going Management and Maintenance

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

4.2.1 Asbestos

Perform a pre-construction survey and remove asbestos-containing materials (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 report upon completion of any abatement and removal of asbestos-containing materials.

4.2.2 Lead

Disturbance of lead in paint and coatings (or other materials) during maintenance activities may result in over-exposure to lead dust or fumes. The need for work procedures, engineering controls and personal protective equipment will need to be assessed on a project-by-project basis and must comply with provincial standards or guidelines. Performing an exposure assessment during work that disturbs lead in paints and coatings may be able to alleviate the use of some of the precautions specified by these standards or guidelines.

Lead-containing items should be recycled when taken out of service.

4.2.3 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 provincial standards or guidelines.

4.2.4 Mercury

Do not break lamps. 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 local regulations.

4.2.5 Mould

No visible mould growth was observed; if mould is uncovered inside wall cavities during hand demolition, use appropriate precautions and protect workers using methods that comply with provincial guidelines.

5.0 TERMS AND LIMITATIONS

The work performed by Pinchin was conducted in accordance with the City of Toronto, Blanket Contract #47020968.



6.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:



1. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.
3. Lead on Construction Projects, Ministry of Labour Guidance Document.
4. The Environmental Abatement Council of Ontario (EACO) Lead Guideline for Construction, Renovation, Maintenance or Repair.
5. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 347 as amended.
6. Silica on Construction Projects, Ministry of Labour Guidance Document.
7. Alert – Mould in Workplace Buildings, Ontario Ministry of Labour.

\\pinchin.com\miss\Job\274000s\0274992.000 CITYOFTORONTO,2020AnnualProgram,HAZ,DSS\0274992.003 CITYOFTORONTO,2020Annual-Fire,HAZ,DSS\Deliverables\Locations\4560 Sheppard Ave E\Deliverables\4560 – Sheppard Ave E – 243 – 2020 Annual DSS Report.docx

Template: Master Report for Hazardous Materials Assessment (Pre-Construction), HAZ, February 26, 2020

APPENDIX I
Drawings

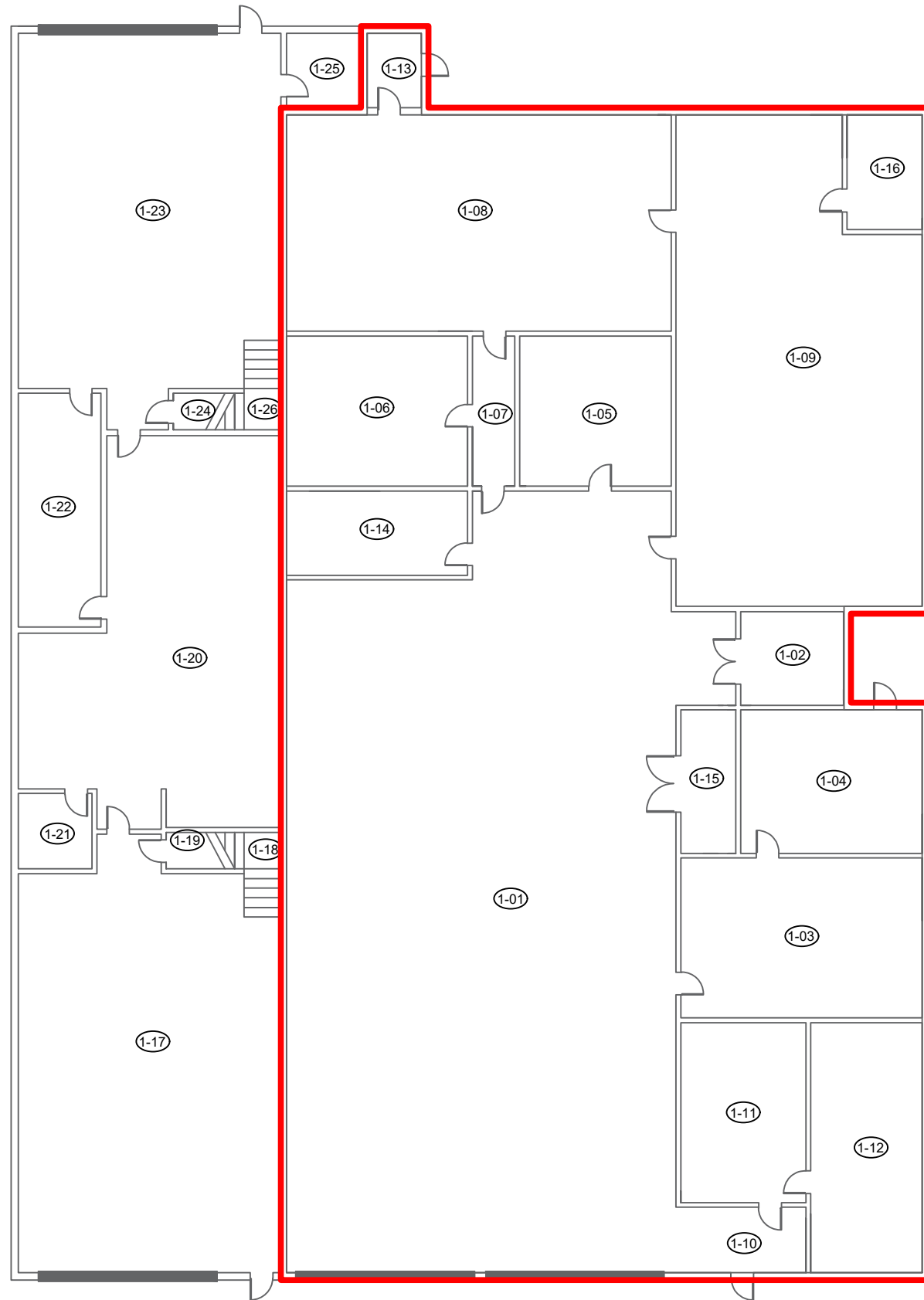


- LEGEND:
-  PINCHIN LOCATION NUMBER
 -  SURVEY BOUNDARY/ASSESSED AREA

NOT ALL KNOWN OR ASSUMED DESIGNATED SUBSTANCES ARE IDENTIFIED IN THE DRAWING. REFER TO THE DESIGNATED SUBSTANCES SURVEY REPORT FOR A COMPLETE LIST OF THE KNOWN AND ASSUMED DESIGNATED SUBSTANCES.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:		CITY OF TORONTO
LOCATION:		TORONTO FIRE STATION 243 4560 SHEPPARD AVENUE EAST TORONTO, ONTARIO
TITLE:		DESIGNATED SUBSTANCE SURVEY GROUND FLOOR
DATE:	OCTOBER 2020	PROJECT # : 274992.003
DRAWN BY:	AQ	1 OF 1
CHECKED BY:	AQ	
SCALE:	NTS	



APPENDIX II-A
Asbestos Analytical Certificates
(No Information to Report)

APPENDIX II-B
Lead Analytical Certificates
(No Information to Report)

APPENDIX II-C
PCB Analytical Certificates
(No Information to Report)

APPENDIX III
Methodology



1.0 GENERAL

The following survey methodology is based on the requirements of the *Standard Operation Procedure for Designated Substance Surveys*, dated April, 2014, provided by the City of Toronto (the "SOP").

Pinchin conducted a room-by-room survey (rooms, corridors, service areas, exterior, etc.) to identify the hazardous building materials as defined in Section 1.1. Information regarding the approximate quantity, location, and condition of hazardous building materials encountered and visually estimated quantities were recorded on the *Survey Form*, provided by the City of Toronto, found in Appendix IV. The locations of any samples collected were recorded on small-scale plans, found in Appendix I.

Drawings (i.e., floor plans), previous reports, and Survey Forms, were referenced where provided.

1.1 Limitations on Scope

The survey excludes the following:

- Owner or occupant articles (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

The survey was limited to non-intrusive testing. Concealed spaces such as those above solid ceilings and within shafts and pipe chases were accessed via existing access panels only. Pinchin did not conduct demolition of walls, solid ceilings, structural items, interior finishes or exterior building finishes, to determine the presence of concealed materials.

1.2 Asbestos

Pinchin conducted an inspection for the presence of friable and non-friable asbestos-containing materials (ACM). A friable material is a material that when dry can be crumbled, pulverized or powdered by hand pressure.



Pinchin collected samples at a rate that is in compliance with Table 1 of O.Reg. 278/05. A separate set of samples was collected of each of homogenous material sampled. A homogenous material is defined by the US EPA¹ as material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material. The homogeneous materials are determined by visual examination, available information on the phases of the construction and prior renovations.

The following materials were sampled:

- All friable materials historically known to contain asbestos, regardless of year of installation, not identified in previous reports;
- Friable materials previously sampled in insufficient quantity to conclude the materials are non-asbestos, in accordance with the requirements of O.Reg. 278/05;
- Friable materials previously reported to contain less than 1% asbestos, if sampled prior to the Ministry of Labour defining an asbestos-containing material as a material containing contains 0.5 percent or more asbestos by weight;
- Non-friable acoustic ceiling tiles;
- Non-friable vinyl floor tiles and mastic.

The following materials were **not** sampled:

- Materials previously identified in previous reports provided as asbestos-containing;
- Materials previously confirmed to be non-asbestos in accordance with O.Reg. 278/05;
- Unless damaged the following materials were not sampled: plaster, drywall joint compound, mastic, window caulking, roofing materials, vinyl sheet flooring. Materials not sampled are assumed to contain asbestos.
- Materials where sampling poses an inherent, imminent danger to the Assessor such as high voltage wiring, materials present at heights greater than 12 feet, or those in confined spaces. These materials are assumed to be asbestos-containing.

In some cases, manufactured products such as asbestos cement pipe are visually identified without sample confirmation.

¹ Environmental Protection Agency



Pinchin submits the bulk samples to a NVLAP² accredited laboratory for analysis. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, July 1993.

The asbestos analysis is completed using a stop positive approach. Only one result of greater than the regulated criteria (0.5%) is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result. Where building materials are described in the report as non-asbestos, or described as containing no asbestos, this is subject to the limitations of the analytical method used, and should be understood to mean no asbestos was detected.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable).
- Condition (good, fair, poor, debris, based on definitions in the SOP).
- Accessibility (ranking from accessible to all building users to inaccessible).
- Visibility (whether the material is obscured by other building components).
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

This includes friability, condition and efficiency and practicality of the work.

1.3 Lead

Pinchin collected samples of damaged paint not identified in a previous report. Drawings included show sample locations.

Analysis for lead in paints or surface coatings is performed in accordance with EPA Method No. 3050B/Method No. 7420; flame atomic absorption at an accredited laboratory.

For this report, all paints containing lead at a concentration 0.1% or greater are discussed. Paint was evaluated for condition.

Lead building products (e.g. batteries, lead sheeting, flashing) are identified by visual observation only.

² National Voluntary Laboratory Accreditation Program

1.4 Silica

Pinchin identifies building materials suspected of containing crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) by knowledge of current and historic applications and visual inspection only.

Pinchin does not perform sampling of these materials for laboratory analysis of crystalline silica content.

1.5 Mercury

Building materials/products/equipment (e.g. thermostats, barometers, pressure gauges, light tubes), suspected to contain mercury were identified by visual inspection only. Dismantling of equipment suspected of containing mercury was not performed. Sampling of these materials for laboratory analysis of mercury content was not performed.

Mercury spills or damaged mercury-containing equipment was recorded where observed.

1.6 Polychlorinated Biphenyls

Pinchin determines the potential for light ballast and wet transformers to contain PCBs based on the age of the building, a review of maintenance records and examination of labels or nameplates on equipment, where present and accessible. The information is compared to known ban dates of PCBs and Environment Canada publications.

Dry type transformers are assumed to be free of dielectric fluids and hence non-PCB.

Pinchin records spills or leakage of suspect PCB-containing fluids where observed.

Fluids (mineral oil, hydraulic or Askaral) in transformers or other equipment are not sampled for PCB content.

Non-liquid forms of PCBs (i.e. sealants or caulking) are not sampled for PCB content.

1.7 Visible Mould

Pinchin identifies the presence of mould if visibly present in a significant quantity on exposed building surfaces. If any mould growth is concealed within wall cavities it is not addressed in this survey.

APPENDIX IV
Survey Form

APPENDIX IV - SURVEY FORM

Building Address:	4560 Sheppard Avenue East, Toronto, Ontario	Date(s) of Current Reassessment:	October 26, 2020
Building Name:	Toronto Paramedic Services Station 29	Organization Completing Reassessment:	Pinchin Ltd.
Original Survey Conducted By:	ECOH Management Inc.	Name of Surveyor:	Abdullah Qasemzada
Date(s) of Original Survey:	August 8, 2007		

NOTES:

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Notes / Recommended Actions
0-00	Exterior	Roof	Roofing Materials	Asbestos	Not Sampled	ACM Assumed	7,050 SF	Good	
0-00	Exterior	Windows	Window Caulking	Asbestos	Not Sampled	ACM Assumed	All	Good	
1-01	Fire Apparatus Bay	Floor	Concrete	N/A	N/A	N/A	N/A	N/A	
1-01	Fire Apparatus Bay	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-01	Fire Apparatus Bay	Ceiling	Not Found	N/A	N/A	N/A	N/A	N/A	Open to deck
1-01	Fire Apparatus Bay	Pipe	Parging Cement	Asbestos	Homogeneous w. 11850-B-71-07	None Detected	N/A	N/A	
1-01	Fire Apparatus Bay	Pipe	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-01	Fire Apparatus Bay	Pipe	Uninsulated	N/A	N/A	N/A	N/A	N/A	
1-01	Fire Apparatus Bay	Duct	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-01	Fire Apparatus Bay	Duct	Uninsulated	N/A	N/A	N/A	N/A	N/A	
1-02	Hose Hanger	Floor	Concrete	N/A	N/A	N/A	N/A	N/A	
1-02	Hose Hanger	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-02	Hose Hanger	Ceiling	Not Found	N/A	N/A	N/A	N/A	N/A	Open to deck
1-03	Supply Room	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-03	Supply Room	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-03	Supply Room	Walls	Paint	Lead	FS243-L0002*	<0.0063%	N/A	N/A	Off-white paint on concrete block wall *Pinchin File No. 248346.001
1-03	Supply Room	Ceiling	Not Found	N/A	N/A	N/A	N/A	N/A	Open to deck
1-03	Supply Room	Pipe	Parging Cement	Asbestos	11850-B-71-07a	None Detected	N/A	N/A	* From Survey Report dated 2007

APPENDIX IV - SURVEY FORM

<i>Location Number</i>	<i>Location Name</i>	<i>Building System</i>	<i>Material Observed</i>	<i>Potential Hazardous Material</i>	<i>Sample ID</i>	<i>Analytical Result</i>	<i>Quantity</i>	<i>Condition</i>	<i>Notes / Recommended Actions</i>
1-03	Supply Room	Pipe	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-03	Supply Room	Pipe	Uninsulated	N/A	N/A	N/A	N/A	N/A	
1-03	Supply Room	Duct	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-03	Supply Room	Duct	Uninsulated	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Floor	Concrete	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Ceiling	Plaster	Asbestos	14-8368-02 to 04*	None Detected	N/A	N/A	*From Fisher Project No. 14-6897, dated April 2014
1-04	Mechanical Room	Ceiling	Texture Coat	Asbestos	11850-B-71-05a* 11850-B-71-05b* 11850-B-71-05c* 11850-B-71-05d* 11850-B-71-05e*	None Detected	N/A	N/A	* From Survey Report dated 2007
1-04	Mechanical Room	Pipe	Parging Cement	Asbestos	11850-B-71-07b* 11850-B-71-07c* 14-8368-05 to 07**	None Detected	N/A	N/A	* From Survey Report dated 2007 **From Fisher Project No. 14-6897, dated April 2014
1-04	Mechanical Room	Pipe	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Pipe	Uninsulated	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Duct	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Duct	Uninsulated	N/A	N/A	N/A	N/A	N/A	
1-04	Mechanical Room	Mechanical	Uninsulated	N/A	N/A	N/A	N/A	N/A	Hot water tank
1-04	Mechanical Room	Mechanical	Uninsulated	N/A	N/A	N/A	N/A	N/A	Furnace
1-05	Equipment Storage	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-05	Equipment Storage	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-05	Equipment Storage	Ceiling	Not Found	N/A	N/A	N/A	N/A	N/A	Open to deck
1-05	Equipment Storage	Pipe	Parging Cement	Asbestos	Homogeneous w. 11850-B-71-07	None Detected	N/A	N/A	
1-05	Equipment Storage	Pipe	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-06	Men's Washroom	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	

APPENDIX IV - SURVEY FORM

<i>Location Number</i>	<i>Location Name</i>	<i>Building System</i>	<i>Material Observed</i>	<i>Potential Hazardous Material</i>	<i>Sample ID</i>	<i>Analytical Result</i>	<i>Quantity</i>	<i>Condition</i>	<i>Notes / Recommended Actions</i>
1-06	Men's Washroom	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-06	Men's Washroom	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	11850-B-71-01a* 11850-B-71-01b*	None Detected	N/A	N/A	ACT01 - 2' x 4' Pinhole, Long Fissure *From Survey Report dated 2007
1-06	Men's Washroom	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	Homogeneous w. 11850-B-71-02	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure
1-07	Corridor	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-07	Corridor	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-07	Corridor	Walls	Paint	Lead	FS243-L0003*	0.015%	N/A	N/A	Green paint on concrete block wall *Pinchin File No. 248346.001
1-07	Corridor	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	11850-B-71-02b*	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure *From Survey Report dated 2007
1-08	Lounge / Kitchen	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-08	Lounge / Kitchen	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-08	Lounge / Kitchen	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	Homogeneous w. 11850-B-71-02	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure
1-08	Lounge / Kitchen	Ceiling	Drywall Joint Compound (DJC)	Asbestos	Homogeneous w. 14-9612-04 to 06	None Detected	N/A	N/A	
1-09	Dormitory	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-09	Dormitory	Walls	Drywall Joint Compound (DJC)	Asbestos	12180-B-71-03a* 12180-B-71-03b* 12180-B-71-03c* 12180-B-71-03d*	None Detected	N/A	N/A	* From Survey Report dated 2008
1-09	Dormitory	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	11850-B-71-02a*	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure *From Survey Report dated 2007
1-10	South Vestibule	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-10	South Vestibule	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-10	South Vestibule	Ceiling	Paint	Lead	FS243-L0001*	0.026%	N/A	N/A	Beige paint on corrugated steel deck *Pinchin File No. 248346.001
1-10	South Vestibule	Ceiling	Drywall Joint Compound (DJC)	Asbestos	Homogeneous w. 14-9612-04 to 06	None Detected	N/A	N/A	
1-11	Office	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-11	Office	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-11	Office	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	11850-B-71-01c*	None Detected	N/A	N/A	ACT01 - 2' x 4' Pinhole, Long Fissure *From Survey Report dated 2007
1-12	Bedroom	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	

APPENDIX IV - SURVEY FORM

<i>Location Number</i>	<i>Location Name</i>	<i>Building System</i>	<i>Material Observed</i>	<i>Potential Hazardous Material</i>	<i>Sample ID</i>	<i>Analytical Result</i>	<i>Quantity</i>	<i>Condition</i>	<i>Notes / Recommended Actions</i>
1-12	Bedroom	Walls	Drywall Joint Compound (DJC)	Asbestos	12180-B-71-03e* 12180-B-71-03f* 12180-B-71-03g*	None Detected	N/A	N/A	* From Survey Report dated 2008
1-12	Bedroom	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	11850-B-71-02c*	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure *From Survey Report dated 2007
1-12	Bedroom	Pipe	Parging Cement	Asbestos	Homogeneous w. 11850-B-71-07b* 11850-B-71-07c*	None Detected	N/A	N/A	
1-12	Bedroom	Pipe	Fibreglass	N/A	N/A	N/A	N/A	N/A	
1-13	North Vestibule	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-13	North Vestibule	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-13	North Vestibule	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	Homogeneous w. 11850-B-71-02	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure
1-14	Women's Washroom	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-14	Women's Washroom	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-14	Women's Washroom	Ceiling	Drywall Joint Compound (DJC)	Asbestos	Homogeneous w. 14-9612-04 to 06	None Detected	N/A	N/A	
1-15	Hose Tower	Floor	Concrete	N/A	N/A	N/A	N/A	N/A	
1-15	Hose Tower	Walls	Masonry	N/A	N/A	N/A	N/A	N/A	
1-15	Hose Tower	Ceiling	Not Found	N/A	N/A	N/A	N/A	N/A	Open to deck
1-16	Bedroom	Floor	Ceramic	N/A	N/A	N/A	N/A	N/A	
1-16	Bedroom	Walls	Drywall Joint Compound (DJC)	Asbestos	Homogeneous w. 14-9612-04 to 06	None Detected	N/A	N/A	
1-16	Bedroom	Ceiling	Acoustic Ceiling Tile (ACT)	Asbestos	Homogeneous w. 11850-B-71-02	None Detected	N/A	N/A	ACT02 - 2' x 4' Pinhole, Short Fissure