



Walkerton Community Centre 290 Durham Street West, Walkerton, Ontario

Prepared for:

Corporation for the Municipality of Brockton

Box 68, 100 Scott Street Walkerton, Ontario

Attention: Michael Murphy Acting Director of Parks and Recreations

June 24, 2019

Pinchin File: 238555

© 2019 Pinchin Ltd.



| Issued to: | Corporation for the Municipality of Brockton |
|------------------|----------------------------------------------|
| Contact: | Michael Murphy |
| | Acting Director of Parks and Recreations |
| Issued on: | June 24, 2019 |
| Pinchin File: | 238555 |
| Issuing Office: | Waterloo, ON |
| Pinchin Contact: | Ryan Farnsworth |
| | Project Manager |

Author:

Greg Livingston, B.Eng., E.I.T. Project Technologist 289.925.5409 glivingston@pinchin.com

Reviewer:

Ryan Farnsworth Project Manager 519.746.4210 ext. 3757 rfarnsworth@pinchin.com

Reviewer:

Damian Palus, C.E.T. Operations Manager 905.577.6206 ext. 1725 dpalus@pinchin.com



EXECUTIVE SUMMARY

Corporation for the Municipality of Brockton (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at 290 Durham Street West, Walkerton, Ontario. Pinchin performed the assessment on May 21, 2019.

The objective of the assessment was to document the locations of specified hazardous building materials, evaluate their condition and develop corrective action plans as required for the purposes of long term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The assessed area consisted of the entire building excluding the roof area.

SUMMARY OF FINDINGS

Asbestos: Asbestos-containing materials (ACM) are present as follows:

- Parging cement on pipe insulation in locations 1, 2, 4-6, 10, 21-24, 26 in poor to good condition.
- Presumed asbestos-containing brown duct mastic present on ductwork throughout the building in good condition.
- 24"x48", lay-in, pinhole and lengthwise fissure ceiling tiles in locations 2, 4, 6, 8, 9, 16 and 29 in good condition.
- 24"x48", lay-in, small and medium perforation ceiling tiles in locations 3-5 and 8 in good condition.
- Drywall joint compound as a wall and bulkhead finish in locations 2-10, 25 and 30 in good condition.
- Asbestos-cement (Transite) rain water leaders in locations 1, 2, 21, 23, 26, 28 and 29A in good condition.
- 12"x12" light grey with red and white fleck vinyl floor tiles and associated asbestoscontaining mastic in locations 3, 7, 8 and 10 in good condition.
- Mastic associated with non-asbestos 12"x12" white, beige and olive fleck vinyl floor tiles in location 3 in good condition.
- White expansion joint caulking present at interior concrete block expansion joints throughout the building in good condition.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

- Grey expansion joint caulking at exterior concrete block expansion joints, location 32 in good condition.
- Grey caulking present at exterior pipe penetrations in location 32 in good condition.
- Gold antisweat mastic present under sinks in locations 8, 10 and 16 in good condition.

Lead: Lead is present as follows:

- Paints.
- Batteries of emergency lights and fire alarm systems.
- Caulking on cast iron pipe joints (bell and spigot).
- Presumed present in electrical components, including wiring connectors, grounding conductors, solder on pipe connections and glazing on ceramic tiles.

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

<u>Mercury:</u> Mercury vapour is present in light tubes and as a liquid in instrumentation in boiler and mechanical rooms, location 27

<u>Polychlorinated Biphenyls (PCBs)</u>: PCBs may be present in light ballasts. PCBs are presumed present in dielectric fluid in the transformer at the exterior. Paints, oil impregnated cables voltage regulators and capacitors are presumed to contain PCBs.

<u>Mould and Water Damage</u>: Visible mould and water damage was observed on a ceiling tile and on two pipe fittings in location 1.

SUMMARY OF RECOMMENDATIONS

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

- 1. Prepare an Asbestos Management Program (AMP).
- 2. Perform a re-assessment of asbestos materials on an annual basis.
- Perform a pre-construction assessment and remove all ACM prior to alteration or maintenance work if ACM may be disturbed by the work.
- Conduct further investigation of the following items: the roof, under the ice rink, above the plastic sheeting at the structure above the ice rink and above solid ceilings in locations 7, 11 and 25.



- 5. Remove and properly dispose of PCB ballasts when fixtures are decommissioned.
- 6. Recycle mercury-containing light tubes when removed from service.
- 7. Follow appropriate safe work procedures when handling or disturbing silica, lead and mould.
- 8. Remediate the materials as described in Section 4.2.

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 | INTRO | DDUCTION AND SCOPE | 1 |
|-----|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------|
| | 1.1 | Scope of Assessment | 1 |
| 2.0 | BACK | GROUND INFORMATION | 2 |
| | 2.1 2.2 2.3 | Building Description Existing Reports Inaccessible Locations | 2 |
| 3.0 | FINDI | NGS | |
| | 3.1 3.2 3.3 3.4 3.5 3.6 | Asbestos | 5 6 6 7 |
| 4.0 | RECC | DMMENDATIONS | 3 |
| | 4.1 4.2 4.3 | General 18 Remedial Work 19 On-going Management and Maintenance 19 19 19 | 9 |
| 5.0 | TERM | IS AND LIMITATIONS | 1 |
| 6.0 | REFE | RENCES2 | 1 |
| | | | |

APPENDICES

| APPENDIX I | Drawings |
|---------------|----------------------------------|
| APPENDIX II-A | Asbestos Analytical Certificates |
| APPENDIX II-B | Lead Analytical Certificates |
| APPENDIX II-C | PCB Analytical Certificates |
| APPENDIX III | Methodology |



1.0 INTRODUCTION AND SCOPE

Corporation for the Municipality of Brockton (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment of the Walkerton Community Centre located at 290 Durham Street West, Walkerton, Ontario.

Greg Livingston, Project Technologist, performed the assessment on May 21, 2019. The surveyor was unaccompanied during the assessment. The assessed area was occupied at the time of the assessment.

The objective of the assessment was to document the locations of specified hazardous building materials, evaluate their condition and develop corrective action plans as required. This assessment is only to be used for the purposes of long term management and routine maintenance. The results of this assessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The assessment was performed to establish the location and type of specified hazardous building materials incorporated in the structure and its finishes. The assessed area consisted of all parts of the building excluding the roof area.

For the purpose of the assessment and this report, hazardous building materials are defined as follows:

- Asbestos
- Lead
- Silica
- Mercury
- Polychlorinated Biphenyls (PCBs)
- Mould

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

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



2.0 BACKGROUND INFORMATION

2.1 Building Description

| Description Item | Details | |
|----------------------|---------------------------------------------------------------------|--|
| Use | Community centre. | |
| Number of Floors | The building is two stories. | |
| Total Area | The total area of the building is approximately 30,000 square feet. | |
| Year of Construction | The building was constructed in 1972. | |
| Structure | Structural steel and concrete. | |
| Exterior Cladding | Masonry. | |
| HVAC | Rooftop air handling units. | |
| Roof | Not assessed. | |
| Flooring | Vinyl tiles, vinyl sheet flooring, rubber tiles, concrete and wood. | |
| Interior Walls | Concrete block, drywall and fibre reinforced panels (FRP). | |
| Ceilings | Acoustic ceiling tiles, concrete and FRP. | |

2.2 Existing Reports

No existing reports were provided for reference.

2.3 Inaccessible Locations

The following rooms or areas were not accessible and are therefore not included in the report:

| Area or Room | Reason |
|-------------------------------------------------------------------|--------------------------------------|
| The roof area | No safe access |
| Underneath the Ice Rink | No safe access |
| Above the splined ceiling tiles in location 25 | Solid ceiling with no access hatch |
| Above the fibre reinforced panel ceiling in location 7 | Solid ceiling with no access hatch |
| Above the concrete ceiling in location 11 | Solid ceiling with no access hatch |
| Above the plastic sheeting at the ice rink structure, location 26 | No access due to height restrictions |



3.0 FINDINGS

The following section summarizes the findings of the assessment and provides a general description of the hazardous materials identified and their locations.

3.1 Asbestos

3.1.1 Suspect Building Materials Not Found

The following types of building materials may historically contain asbestos but were not observed in the assessed area and are not discussed in the report findings:

- Texture finishes (decorative)
- Plaster and Stucco

3.1.2 Spray-Applied Insulation

The yellow foam spray-applied insulation present on the structure throughout the second floor ceiling space was sampled and determined to not contain asbestos (samples 0009A-G).



Non-asbestos yellow foam spray-applied insulation present on the structure, Location 2.

3.1.3 Pipe Insulation

Parging cement, containing chrysotile asbestos, is present on pipe fittings (elbows and tees) on hot water and rain water leader pipe systems in locations 1, 2, 4-6, 10, 21-24, 26 (samples 0005A-C). Parging cement is a friable insulation, jacketed with canvas and were observed in poor to good condition. There are approximately 60 pipe fittings insulated with parging cement.

The black tar paper present below foil and over non-asbestos fiberglass insulation on pipe straights in location 1 was sampled and determined to not contain asbestos (samples 0004A-C).

The remaining pipes are insulated with fibreglass, or other non-asbestos insulation such as mineral fibre or elastomeric foam insulation.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

Pipes insulated with asbestos-containing insulations may be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.



Asbestos-containing parging cement present on a rain water leader pipe fitting, location 2.



Non-asbestos black tar paper present underneath foil wrap on fiberglass pipe insulation, location 1.



Asbestos-containing parging cement present on a hot water pipe fitting in poor condition, location 1.

3.1.4 Duct Insulation and Mastic

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced).

Brown duct mastic, presumed to contain asbestos, is present on ducting in Location 3, the material maybe present in other locations throughout the building. Mastic is a non-friable material and is in good condition.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton



Presumed asbestos-containing brown duct mastic present on fibreglass insulated duct, location 3.



Ducting insulated with foil-faced fiberglass, location 2.

3.1.5 Mechanical Equipment Insulation

Mechanical equipment (fan units, hot water tanks, chillers, boilers) are either uninsulated or insulated with non-asbestos fibreglass.



Boiler insulated with non-asbestos fibreglass, location 27.



Chiller insulated with non-asbestos fiberglass, location 27.

3.1.6 Vermiculite

Destructive testing was conducted of masonry block walls in limited locations as directed by the Client. The masonry block walls were penetrated in two locations, loose fill vermiculite was not observed within the cavities. The locations of destructive testing have been indicated on the drawings in Appendix I.



3.1.7 Acoustic Ceiling Tiles

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

| Size, Type, Pattern | Locations (Quantity) | Sample Number, Date Code or Nature of Material | Asbestos Type |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------|
| 24"x48", lay-in, pinhole and fleck | Locations 1, and 3-5 | 0003A-C | None Detected |
| 24"x48", lay-in, pinhole and fissure | Locations 1, 10, 15-18, 25, 29, 29A, 29B, 29C | 02/20/13 | None |
| 24"x48", lay-in, pinhole and width-wise fissure | Locations 2, 6, 11, 17, 18, 19, 19A, 19B and 19C | 03/21/16 | None |
| 24"x48", lay-in, pinhole and lengthwise fissure | Locations 2 (2,400 SF), 4 (8 SF), 6 (10 SF), 8 (20 SF), 9 (240 SF), 16 (300 SF) and 29 (20 SF) | 0008A-C | Chrysotile |
| 24"x48", lay-in, small and medium perforation | Locations 3 (120 SF), 4 (120 SF), 5 (120 SF) and 8 (180 SF) | 0012A-C | Amosite |
| 24"x48", lay-in, pinhole and dense width-wise fissure | Locations 6, 10 and 25 | 15/12/92 | None |
| 24"x48", lay-in, white | Location 24 | Wood Fibre | None |
| 12"x12", splined, white textured | Location 25 | Wood Fibre | None |
| 24"x48", lay-in, small and medium pinhole | Location 25 | 09/15/07 | None |

The asbestos-containing ceiling tiles are considered to be non-friable and are in good condition.

Some of the ceiling tiles listed in the table above are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles. The tiles were manufactured after asbestos was stopped being used in acoustic ceiling tiles.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton



Non-asbestos 24"x48", lay-in, pinhole and fleck ceiling tiles, location 1.



Non-asbestos 24"x48", lay-in, pinhole and width-wise fissure ceiling tiles, location 2.



Asbestos-containing 24"x48", lay-in, small and medium perforation ceiling tiles, location 3.



Non-asbestos, 24"x48", lay-in, pinhole and fissure ceiling tiles, location 1.



Asbestos-containing 24"x48", lay-in, pinhole and lengthwise fissure, location 2.



Non-asbestos 24"x48" white wood fibre ceiling tiles, location 24.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton



Non-asbestos 12"x12" white textured wood fibre ceiling tiles, location 25.



Non-asbestos 24"x48", lay-in, small and medium pinhole ceiling tiles, location 25.

3.1.8 Drywall Joint Compound

Drywall (gypsum board) and drywall joint compound is present as a wall and bulkhead finish in locations 2-10, 25 and 30 and was found to contain chrysotile asbestos (samples 0007A-E). The asbestos-positive results indicate that at minimum, the original drywall joint compound application contains asbestos and all drywall joint compound should be presumed to contain asbestos. Further sampling may be considered in an attempt to delineate asbestos-containing drywall compound from newer, non-asbestos drywall compound. Drywall joint compound is a non-friable material. There is approximately 2,700 square feet of drywall ranging from poor to good condition.



Asbestos-containing drywall joint compound wall, location 2.



Asbestos-containing drywall joint compound on wall in poor condition with debris, location 9.



Hazardous Building Materials Assessment Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

3.1.9 Asbestos Cement Products (Transite)

Transite pipe, presumed to contain asbestos based on visual observation, is present as rain water leaders in locations 1, 2, 21, 23, 26, 28 and 29A. Transite is non-friable material and was observed in good condition. There is approximately 560 linear feet of Transite piping. Transit is presumed to be present below the slab/grade.



Asbestos-containing Transite rain water leader, location 26.



Asbestos-containing Transite rain water leader presumed present below grade, location 27.

3.1.10 Vinyl Sheet Flooring

Vinyl sheet flooring is present as follows:

| Pattern, Colour | Paper Backing (Yes/No) | Locations | Sample Number | Asbestos Type |
|------------------------|---------------------------|-------------|------------------|------------------|
| White and grey pebbled | No | Location 31 | 0019A-C | None detected |



Non-asbestos white and grey pebbled vinyl sheet flooring, Location 31.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

3.1.11 Vinyl Floor Tiles

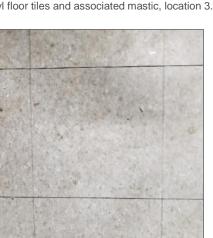
Vinyl floor tiles are present as follows:

| Size, Pattern, Colour | Locations (Quantity) | Sample Number | Asbestos Type (tile) | Asbestos Type (mastic) |
|---------------------------------------------|-------------------------------------------------------------|------------------|-------------------------|---------------------------|
| 12"x12" light grey with red and white fleck | Locations 3 (120 SF), 7 (60 SF), 8 (200 SF), 10 (300 SF) | 0011A-C | Chrysotile | Chrysotile |
| 12"x12" white, beige and olive fleck | Location 3 (5 SF) | 0013A-C | None detected | Chrysotile |
| 12"x12" beige with red fleck | Locations 6 and 10 | 0014A-C | None detected | None detected |
| 12"x12" grey and white fleck | Location 16 | 0017A-C | None detected | None detected |

The asbestos-containing vinyl floor tiles and mastic are non-friable and were observed in good condition.



Asbestos-containing 12"x12" light grey with red and white fleck vinyl floor tiles and associated mastic, location 3.



Non-asbestos 12"x12" grey and white fleck vinyl floor tiles, location 16.



Non-asbestos 12"x12" white, beige and olive fleck vinyl floor tiles with asbestos-containing mastic, location 3.



3.1.12 Sealants, Caulking, and Putty

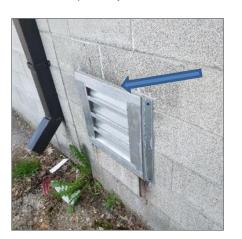
The following table presents a summary of caulking, sealants and putties present:

| Material and Colour | Location | Quantity | Sample Number | Asbestos Type |
|---------------------------------|-------------------------------------------------------------|----------|------------------|------------------|
| Caulking, white | Interior concrete expansions joints throughout the building | 600 LF | 0010A-C | Chrysotile |
| Caulking, grey | Exterior concrete expansion joints, location 32 | 1,200 LF | 0022A-C | Chrysotile |
| Caulking, light grey and yellow | Exterior vent penetrations, location 32 | NA | 0023A-C | None detected |
| Caulking, grey | Exterior gas pipe penetrations, location 32 | 10 SF | 0021A-C | Chrysotile |

Asbestos-containing caulking is a non-friable material and was observed in good condition.



Asbestos-containing white caulking present at interior concrete block expansion joints, location 2.



Non-asbestos light grey caulking at exterior vent penetration, location 32.



Asbestos-containing grey expansion joint caulking present at the exterior, location 32.



Non-asbestos grey and yellow caulking underneath present at exterior vent penetration, location 32.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton



Asbestos-containing grey firestopping present at gas line penetration at the exterior, location 32.

3.1.13 Roofing Products

The roofing was not assessed as part of this investigation and is presumed to contain asbestos until further sampling is conducted.

3.1.14 Other Building Materials

Gold antisweat mastic, containing chrysotile asbestos, is present underneath sinks in locations 8, 10 and 16 (samples 0016A-C). Antisweat mastic is a non-friable material and was observed in good condition. There are approximately 8 sinks with gold antisweat mastic.

The beige floor mastic present under grey rubber tiles in locations 1 was sampled and determined to not contain asbestos (samples 0001A-C).

The beige baseboard mastic present under grey baseboards in location 1 was sampled and determined to not contain asbestos (samples 0002A-C).

The dark brown baseboard mastic present under dark brown baseboards in location 7 was sampled and determined to not contain asbestos (samples 0015A-C).

The mortar present in concrete block masonry from the south end of the building was sampled and determined to not contain asbestos (samples 0006A-C).

The mortar present in the exterior decorative stone in location 32 was sampled and determined to not contain asbestos (samples 0020A-C).

The concrete parging, present on walls and ceilings within location 20 was sampled and determined to not contain asbestos (samples 0018A-C).



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton



Asbestos-containing gold antisweat mastic present underneath a sink, location 8.



Non-asbestos beige mastic present under grey baseboards, location 1.



Non-asbestos mortar present in concrete block wall, location 1. Non-asbestos mortar present in exterior decorative stone wall,



Non-asbestos beige mastic present under grey rubber floor tiles, location 1.



Non-asbestos dark brown baseboard mastic present under brown baseboards, location 7.



Non-asbestos mortar present in exterior decorative stone wall, location 32.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton



Non-asbestos parge present on concrete walls and ceilings, location 20.

3.1.15 Presumed Asbestos Materials

The methodology identifies a list of materials which may contain asbestos, which were not to be sampled, based on limitations of the scope. The following is a list of materials which may contain asbestos, which were not observed during the assessment, but based on site conditions may be present. If determined to be present during building renovation, 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
- Elevator and lift brakes
- Electrical components
- Mechanical packing, ropes and gaskets
- Vermiculite in wall and ceiling cavities
- Soffit and fascia boards
- Vibration dampers on HVAC equipment
- Mastics and caulking not sampled
- Insulation in fire doors
- Materials concealed or outside the assessed area



3.2 Lead

3.2.1 Paints and Surface Coatings

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

| Sample Number | Colour, Substrate Description | Location | Lead (%) |
|------------------|------------------------------------------------------|-----------------------------------------------------|----------|
| L01 | Light blue paint on concrete block walls | Location 1 | <0.0065 |
| L02 | Grey paint on concrete block walls | Location 1 | <0.0065 |
| L03 | Dark green paint on concrete block and drywall walls | Location 2 | <0.0058 |
| L04 | Beige paint on drywall walls | Location 7 | 0.0091 |
| L05 | White paint on concrete block walls | Locations 1, 11, 13-15, 19-22, 29, 29A-C, 30 and 31 | 0.12 |
| L06 | Dark blue paint on concrete block walls | Locations 13, 14, 16, 19-24, 26 and 33 | 0.97 |
| L07 | Grey paint on concrete floor | Location 16 | <0.0055 |
| L08 | Grey paint on metal beams | Location 28 | 0.014 |
| L09 | Red paint on concrete block walls | Location 29A | 0.11 |

Results above 0.1% are considered elevated (i.e., greater than the EACO guideline of 0.1% for leadcontaining paints). Paints with elevated levels of lead was flaking/peeling in the following areas on the following items:

• Dark blue paint on concrete block walls in Location 13.



Dark blue paint with elevated levels of lead flaking from concrete block wall, location 13.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

3.2.2 Lead Products and Applications

Lead-containing batteries are presumed present in emergency lighting and fire alarm control panels.

Lead caulking is present in bell and spigot fittings on cast iron pipes.



Lead-containing batteries presumed present in emergency lighting, location 1.

3.2.3 Presumed Lead Materials

Lead may be present in a number of materials which were not assessed and/or sampled. The following materials, where found, should be considered to contain lead.

- Electrical components, including wiring connectors, grounding conductors, and solder
- Solder on pipe connections
- Glazing on ceramic tiles

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
- Stone

3.4 Mercury

3.4.1 Lamps

Mercury vapour is present in fluorescent lamps.



Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

3.4.2 Mercury-Containing Devices

Thermostats inspected did not contain liquid mercury ampules.

Mercury is present as a liquid in instrumentation in boiler and mechanical rooms, location 27.

3.5 Polychlorinated Biphenyls

3.5.1 Caulking

Grey caulking is present at exterior concrete block expansion joints (samples P01) and contains <0.5 ppm PCBs. The material is a non-PCB solid based on the threshold (50 ppm).

3.5.2 Lighting Ballasts

The building has not been comprehensively re-lamped with new energy efficient light ballasts and lamps, and as such, a percentage of light ballasts may be manufactured prior to 1980 and may contain PCBs.

3.5.3 Transformers

The dielectric fluid within the transformer located at the exterior is presumed to contain PCBs until further sampling proves otherwise.

All transformers within the building are dry type transformers and do not contain PCB-containing dielectric fluids.



Transformer with presumed PCB containing dielectric fluid present at the exterior, location 32.

3.5.4 Presumed PCB Materials

- Paints
- Oil impregnated cables
- Voltage regulators and capacitors



Hazardous Building Materials Assessment Walkerton Community Centre, 290 Durham Street West, Walkerton, Ontario Corporation for the Municipality of Brockton

3.6 Mould

Visible mould growth and water staining is present on one non-asbestos ceiling tile and two asbestoscontaining parging cement pipe fittings in location 1. There is approximately 4 sq. ft of visible mould growth.



Mould growth and staining present on ceiling tile, location 1.



Mould growth present on a pipe fitting with asbestoscontaining parging cement, location 1.

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.
- 2. Investigate any items excluded from the scope of work of this report prior to any renovation or demolition work. Ideally this investigation will be performed as part of the development of the specifications, or at a minimum immediately prior to commencing renovations when the areas are no longer occupied. Specifically the following materials/areas need to be investigated:
 - The roof.
 - Underneath the ice rink.
 - Above the plastic sheeting at the structure above the ice rink.
 - Above solid ceilings in locations 7, 11 and 25



4.2 Remedial Work

The following remedial work is recommended regardless of the planned construction work due to the condition and location of the material.

| Material, Quantity & Condition | Location | Recommended Procedure |
|-----------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------|
| Dark blue paint with elevated levels of lead, twenty square feet flaking | Location 13 | Remove in accordance with low risk abatement procedures |
| Ceiling tile, non-asbestos with four square feet of visible mould growth | Location 1 | Remove in accordance with EACO Level 1 mould procedures |
| Asbestos-containing parging cement on two pipe elbows in poor condition | Location 1 | Remove in accordance with Glove Bag asbestos procedures in conjunction with EACO Level 1 mould procedures |
| Asbestos-containing drywall joint compound on wall finishes, twelve square feet in poor condition and debris | Location 9 | Remove debris and damaged drywall and seal remaining edges following Type 2 asbestos procedures. |

4.3 On-going Management and Maintenance

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

4.3.1 Asbestos

Prepare an Asbestos Management Program (AMP). The AMP should address and document; written work practices, worker training, notifications, policies and responsibilities.

Perform a re-assessment of asbestos materials on an annual basis.

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 asbestoscontaining materials.

4.3.2 Lead

Analytical results indicate that some of the paints from the Site Building contain low levels of lead (i.e., less than the EACO guideline of 0.1% for lead-containing paints). Special precautions are not recommended unless aggressive disturbance (grinding, blasting, torching) is planned.



For paints identified as having elevated levels of lead (i.e., greater than the EACO guideline of 0.1% for lead-containing paints), construction disturbance may result in over-exposure to lead dust or fumes. The need for work procedures, engineering controls and personal protective equipment should be assessed on a site specific basis to comply with provincial standards or guidelines. Performing an exposure assessment during work that disturbs lead in paints and coatings may be able to reduce the use of some of these precautions.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead prior to disposal.

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

4.3.3 Silica

Construction disturbance of silica-containing products 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.

4.3.4 Mercury

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 local regulations.

4.3.5 PCBs

When light fixtures are removed, examine light ballasts for PCB content. If ballasts are not clearly labelled as "non-PCB" or are suspected to contain PCBs; package and ship ballasts for destruction at a federally permitted facility.

Liquid in oil transformers should be sampled immediately for classification purposes.

4.3.6 Mould

Use appropriate precautions and protect workers during removal, using methods that comply with provincial guidelines. A qualified consultant should specify, inspect and verify the successful removal of mould-impacted finishes.



5.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

6.0 REFERENCES

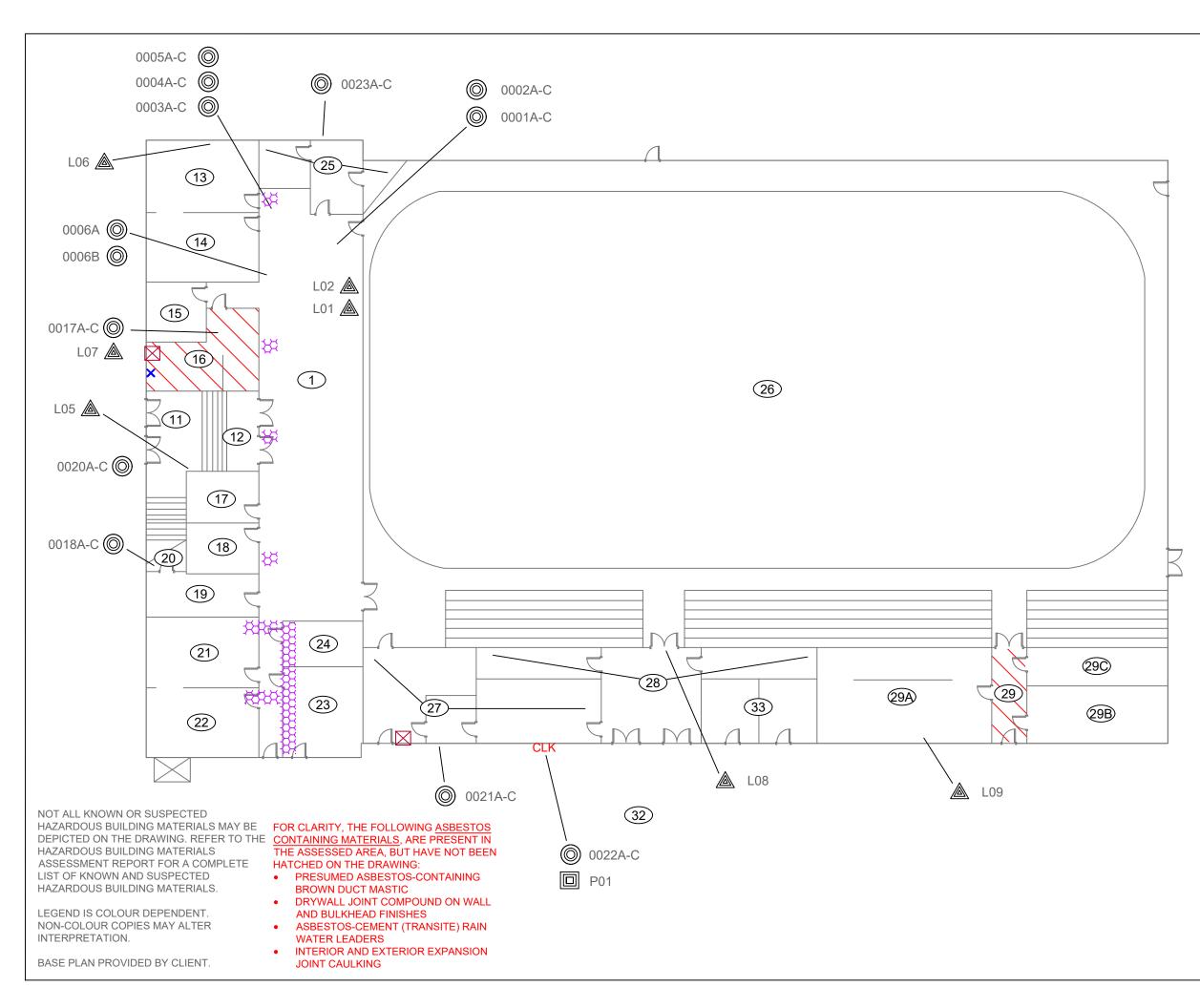
The following legislation and documents were referenced in completing the assessment and this report:

- 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, October 2014.
- 5. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 347 as amended.
- 6. Surface Coating Materials Regulations, SOR/2005-109, Hazardous Products Act.
- 7. Silica on Construction Projects, Ministry of Labour Guidance Document.
- 8. Alert Mould in Workplace Buildings, Ontario Ministry of Labour.

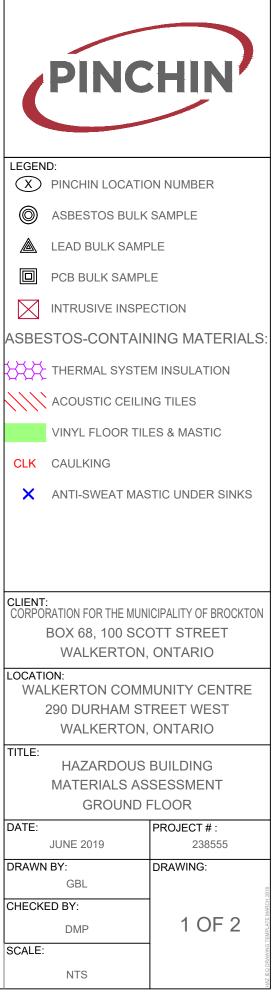
Template: Master Report for Hazardous Materials Assessment (Pre-Construction), HAZ, April 23, 2019

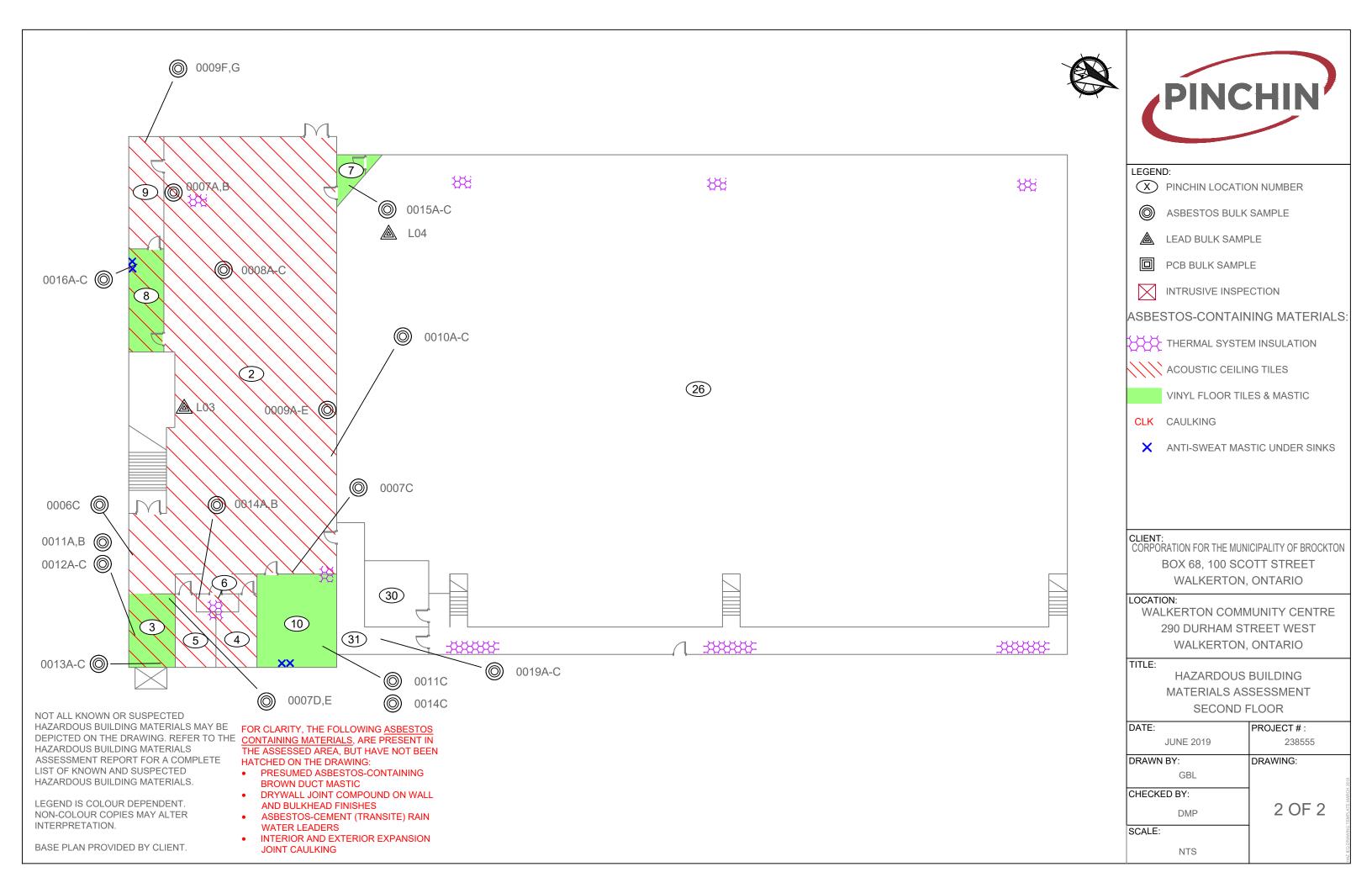
^{\\}pinchin.com\wat\Job\238000s\0238555.000 CofBrockton,290DurhamS,Walkerton,HAZ,ASM\Deliverables\238555 HazMat Report 290 Durham St W Walkerton ON COB Jun 24 2019.docx

APPENDIX I Drawings









APPENDIX II-A Asbestos Analytical Certificates



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RM

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID | Description | A | Fibrous | Non-Fibrous | Attributes |
|---------------|-------------------------------------------------------------|---------------|-----------------------------------|--------------------------|--------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0001A | Floor mastic on concrete, under grey rubber tiles, Loc 1 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_1 | - | | | | Dissolved |
| 0001B | Floor mastic on concrete, under grey rubber tiles, Loc 1 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_2 | - | | | | Dissolved |
| 0001C | Floor mastic on concrete, under grey rubber tiles, Loc 1 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_3 | - | | | | Dissolved |
| 0002A | Baseboard mastic, beige under grey baseboards, Loc 1 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_4 | _ | | | | Dissolved |
| 0002B | Baseboard mastic, beige under grey baseboards, Loc 1 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_5 | - | | | | Dissolved |
| 0002C | Baseboard mastic, beige under grey baseboards, Loc 1 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_6 | - | | | | Dissolved |
| 0003A | Ceiling tile, lay-in, 2x4, pinhole and fleck, Loc 1 | None Detected | 45% Cellulose 35% Mineral Wool | 10% Perlite 10% Other | White Fibrous Homogeneous |
| 71913943PLM_7 | | | | | Ashed, Dissolved |
| 0003B | Ceiling tile, lay-in, 2x4, pinhole and fleck, Loc 1 | None Detected | 45% Cellulose 35% Mineral Wool | 10% Perlite 10% Other | White Fibrous Homogeneous |
| 71913943PLM_8 | | | | | Ashed, Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, verniculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%. Philip Szabo (90)

Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Analyst

Page 1 of 12



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth
 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RM

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID Lab Sample ID | Description Lab Notes | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes |
|----------------------------|-----------------------------------------------------------------|----------------|-----------------------------------|---------------------------|-----------------------------------------|
| | | | | | Treatment |
| 0003C | Ceiling tile, lay-in, 2x4, pinhole and fleck, Loc 1 | None Detected | 45% Cellulose 35% Mineral Wool | 10% Perlite 10% Other | White Fibrous Homogeneous |
| 71913943PLM_9 | - | | | | Ashed, Dissolved |
| 0004A | Tar paper below foil on fiberglass insulated pipes, Loc 1 | None Detected | 40% Cellulose 10% Fiber Glass | 50% Other | Black, Silver Fibrous Homogeneous |
| 71913943PLM_10 | - | | | | Ashed, Dissolved |
| 0004B | Tar paper below foil on fiberglass insulated pipes, Loc l | None Detected | 40% Cellulose 10% Fiber Glass | 50% Other | Black, Silver Fibrous Homogeneous |
| 71913943PLM_11 | - | | | | Ashed, Dissolved |
| 0004C | Tar paper below foil on fiberglass insulated pipes, Loc l | None Detected | 40% Cellulose 10% Fiber Glass | 50% Other | Black, Silver Fibrous Homogeneous |
| 71913943PLM_12 | _ | | | | Ashed, Dissolved |
| 0005A | Parging cement, white on pipe elbows, Loc 1 | 70% Chrysotile | | 30% Other | Gray Fibrous Homogeneous |
| 71913943PLM_13 | - | | | | Teased, Dissolved |
| 0005B | Parging cement, white on pipe elbows, Loc 1 | Not Analyzed | | | |
| 71913943PLM_14 | - | | | | |
| 0005C | Parging cement, white on pipe elbows, Loc 1 | Not Analyzed | | | |
| 71913943PLM_15 | | | | | |
| 0006A | Concrete block masonry mortar, Loc 1 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM 16 | - | | | | Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RW

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID | Description | | Fibrous | Non-Fibrous | Attributes |
|----------------|------------------------------------------------------------------------|---------------|-----------------------------------|-------------------------|------------------------------------|
| Lab Sample ID | Lab Notes | - Asbestos | Components | Components | Treatment |
| 0006B | Concrete block masonry mortar, Loc 1 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_17 | - | | | | Dissolved |
| 0006C | Concrete block masonry mortar, Loc 2 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_18 | - | | | | Dissolved |
| 0007A | Drywall joint compound, walls and bulkheads, Loc 2 | 3% Chrysotile | | 97% Other | Tan Non Fibrous Homogeneous |
| 71913943PLM_19 | - | | | | Dissolved |
| 0007B | Drywall joint compound, walls and bulkheads, Loc 2 | Not Analyzed | | | |
| 71913943PLM_20 | _ | | | | |
| 0007C | Drywall joint compound, walls and bulkheads, Loc 2 | Not Analyzed | | | |
| 71913943PLM_21 | - | | | | |
| 0007D | Drywall joint compound, walls and bulkheads, Loc 3 | Not Analyzed | | | |
| 71913943PLM_22 | - | | | | |
| 0007E | Drywall joint compound, walls and bulkheads, Loc 3 | Not Analyzed | | | |
| 71913943PLM_23 | | | | | |
| 0008A | Ceiling tile, lay-in, 2x4, pinhole and lengthwise fissure, Loc 2 | 3% Chrysotile | 45% Cellulose 35% Mineral Wool | 10% Perlite 7% Other | White Fibrous Homogeneous |
| 71913943PLM_24 | _ | | | | Ashed, Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RM

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| 1 | Description | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes Treatment |
|----------------|------------------------------------------------------------------------|---------------|-----------------------|---------------------------|--------------------------------------|
| | Lab Notes | | | | |
| 0008B | Ceiling tile, lay-in, 2x4, pinhole and lengthwise fissure, Loc 2 | Not Analyzed | | | |
| 71913943PLM_25 | - | | | | |
| 0008C | Ceiling tile, lay-in, 2x4, pinhole and lengthwise fissure, Loc 2 | Not Analyzed | | | |
| 71913943PLM_26 | | | | | |
| 0009A | Spray foam insulation, yellow on steel deck, Loc 2 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_27 | - | | | | Dissolved |
| 0009B | Spray foam insulation, yellow on steel deck, Loc 2 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_28 | _ | | | | Dissolved |
| 0009C | Spray foam insulation, yellow on steel deck, Loc 2 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_29 | - | | | | Dissolved |
| 0009D | Spray foam insulation, yellow on steel deck, Loc 2 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_30 | - | | | | Dissolved |
| 0009E | Spray foam insulation, yellow on steel deck, Loc 2 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_31 | | | | | Dissolved |
| 0009F | Spray foam insulation, yellow on steel deck, Loc 9 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_32 | - | | | | Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RIM[

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| es | Asbestos | Commente | ~ | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Components | Components | Treatment |
| on, yellow | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| | | | | Dissolved |
| oncrete nts, white, | 2% Chrysotile | | 98% Other | Gray, White Non Fibrous Homogeneous |
| | | | | Ashed, Dissolved |
| oncrete nts, white, | Not Analyzed | | | |
| | | | | |
| oncrete nts, white, | Not Analyzed | | | |
| | | | | |
| 12 light hite fleck, | 3% Chrysotile | | 97% Other | Gray Non Fibrous Homogeneous |
| | | | | Dissolved |
| 12 light hite fleck, | 2% Chrysotile | | 98% Other | Black Non Fibrous Homogeneous |
| | | | | Dissolved |
| 12 light hite fleck, | Not Analyzed | | | |
| | | | | |
| 12 light hite fleck, | Not Analyzed | | | |
| | | | | |
| | nts, white, oncrete nts, white, 12 light hite fleck, 12 light hite fleck, 12 light hite fleck, 12 light hite fleck, 12 light | oncrete 2% Chrysotile oncrete Not Analyzed oncrete Not Analyzed oncrete 3% Chrysotile 12 light 3% Chrysotile 12 light 2% Chrysotile 12 light 2% Chrysotile 12 light Not Analyzed 12 light Not Analyzed 12 light Not Analyzed 12 light Not Analyzed | oncrete 2% Chrysotile oncrete Not Analyzed oncrete Not Analyzed oncrete Not Analyzed oncrete 3% Chrysotile 12 light 3% Chrysotile 12 light 2% Chrysotile 12 light Not Analyzed 12 light Not Analyzed | oncrete nts, white, oncrete nts, white, not Analyzed 98% Other oncrete nts, white, not Analyzed 98% Other oncrete nts, white, not Analyzed 97% Other 12 light hite fleck, not Analyzed 97% Other 12 light hite fleck, not Analyzed 98% Other |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

w Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RW

NVLAPI

Project: 238555,290 Durham St W Walkerton,City of Brockton

| Sample ID | Description | | Fibrous | Non-Fibrous | Attributes |
|----------------|---------------------------------------------------------------------------|---------------|------------------|-------------|-------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0011C - A | Vinyl floor tile, 12x12 light grey with red and white fleck, Loc 10 | Not Analyzed | | | |
| 71913943PLM_39 | tile | | | | |
| 0011C - B | Vinyl floor tile, 12x12 light grey with red and white fleck, Loc 10 | Not Analyzed | | | |
| 71913943PLM_78 | mastic | | | | |
| 0012A | Ceiling tile, lay-in, 2x4, small and medium perforation, Loc 3 | 3% Amosite | 50% Mineral Wool | 47% Other | White Fibrous Homogeneous |
| 71913943PLM_40 | - | | | | Teased, Dissolved |
| 0012B | Ceiling tile, lay-in, 2x4, small and medium perforation, Loc 3 | Not Analyzed | | | |
| 71913943PLM_41 | - | | | | |
| 0012C | Ceiling tile, lay-in, 2x4, small and medium perforation, Loc 3 | Not Analyzed | | | |
| 71913943PLM_42 | - | | | | |
| 0013A - A | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 | None Detected | | 100% Other | White Non Fibrous Homogeneous |
| 71913943PLM_43 | tile | | | | Dissolved |
| 0013A - B | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 | 3% Chrysotile | | 97% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_79 | mastic | | | | Dissolved |
| 0013B - A | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 | None Detected | | 100% Other | White Non Fibrous Homogeneous |
| 71913943PLM_44 | tile | | | | Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RM

NVLAPI

Project: 238555,290 Durham St W Walkerton,City of Brockton

| Sample ID | Description | | Fibrous | Non-Fibrous | Attributes |
|----------------|--------------------------------------------------------------|---------------|------------|-------------|-------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0013B - B | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 | Not Analyzed | | | |
| 71913943PLM_80 | mastic | | | | |
| 0013C - A | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 | None Detected | | 100% Other | White Non Fibrous Homogeneous |
| 71913943PLM_45 | tile - ashed | | | | Ashed, Dissolved |
| 0013C - B | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 | Not Analyzed | | | |
| 71913943PLM_81 | mastic | · | | | |
| 0014A - A | Vinyl floor tile, 12x12, beige with red fleck, Loc 6 | None Detected | | 100% Other | Beige Non Fibrous Homogeneous |
| 71913943PLM_46 | tile | | | | Dissolved |
| 0014A - B | Vinyl floor tile, 12x12, beige with red fleck, Loc 6 | None Detected | | 100% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_82 | mastic | | | | Dissolved |
| 0014B - A | Vinyl floor tile, 12x12, beige with red fleck, Loc 6 | None Detected | | 100% Other | Beige Non Fibrous Homogeneous |
| 71913943PLM_47 | tile | | | | Dissolved |
| 0014B - B | Vinyl floor tile, 12x12, beige with red fleck, Loc 6 | None Detected | | 100% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_83 | mastic | | | | Dissolved |
| 0014C - A | Vinyl floor tile, 12x12, beige with red fleck, Loc 10 | None Detected | | 100% Other | Beige Non Fibrous Homogeneous |
| 71913943PLM_48 | tile - ashed | | | | Ashed, Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RIM[

NVLAP L

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID | Description | A | Fibrous | Non-Fibrous | Attributes |
|----------------|---------------------------------------------------------------|---------------|------------|-------------|-------------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0014C - B | Vinyl floor tile, 12x12, beige with red fleck, Loc 10 | None Detected | | 100% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_84 | mastic | | | | Dissolved |
| 0015A | Baseboard mastic, dark brown under black baseboards, Loc 7 | None Detected | | 100% Other | Brown Non Fibrous Homogeneous |
| 71913943PLM_49 | - | | | | Dissolved |
| 0015B | Baseboard mastic, dark brown under black baseboards, Loc 7 | None Detected | | 100% Other | Brown Non Fibrous Homogeneous |
| 71913943PLM_50 | - | | | | Dissolved |
| 0015C | Baseboard mastic, dark brown under black baseboards, Loc 7 | None Detected | | 100% Other | Brown Non Fibrous Homogeneous |
| 71913943PLM_51 | - | | | | Dissolved |
| 0016A | Gold sink undercoating, Loc 8 | 5% Chrysotile | | 95% Other | Black, Gold Non Fibrous Homogeneous |
| 71913943PLM_52 | - | | | | Dissolved |
| 0016B | Gold sink undercoating, Loc 8 | Not Analyzed | | | |
| 71913943PLM_53 | - | | | | |
| 0016C | Gold sink undercoating, Loc 8 | Not Analyzed | | | |
| 71913943PLM_54 | - | | | | |
| 0017A - A | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_55 | tile | | | | Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

A Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RM

NVLAP L

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID | Description | A | Fibrous | Non-Fibrous | Attributes |
|----------------|----------------------------------------------------------|---------------|------------|-------------|-------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0017A - B | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 | None Detected | | 100% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_85 | mastic | | | | Dissolved |
| 0017B - A | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_56 | tile | | | | Dissolved |
| 0017B - B | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 | None Detected | | 100% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_86 | mastic | | | | Dissolved |
| 0017C - A | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_57 | tile - ashed | | | | Ashed, Dissolved |
| 0017C - B | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 | None Detected | | 100% Other | Black Non Fibrous Homogeneous |
| 71913943PLM_87 | mastic | | | | Dissolved |
| 0018A | Concrete parging on ceiling and walls, Loc 20 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_58 | - | | | | Dissolved |
| 0018B | Concrete parging on ceiling and walls, Loc 20 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_59 | | | | | Dissolved |
| 0018C | Concrete parging on ceiling and walls, Loc 20 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_60 | - | | | | Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth
 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RIM[

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID | Description | | Fibrous | Non-Fibrous | Attributes |
|----------------|---------------------------------------------------------|---------------|----------------------|-------------|-------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0019A | Vinyl sheet flooring, white and grey patterned, Loc 31 | None Detected | 10% Synthetic Fibers | 90% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_61 | - | | | | Ashed, Dissolved |
| 0019B | Vinyl sheet flooring, white and grey patterned, Loc 31 | None Detected | 10% Synthetic Fibers | 90% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_62 | - | | | | Ashed, Dissolved |
| 0019C | Vinyl sheet flooring, white and grey patterned, Loc 31 | None Detected | 10% Synthetic Fibers | 90% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_63 | - | | | | Ashed, Dissolved |
| 0020A | Stone masonry mortar, exterior Loc 32 | None Detected | | 100% Other | White Non Fibrous Homogeneous |
| 71913943PLM_64 | | | | | Dissolved |
| 0020B | Stone masonry mortar, exterior Loc 32 | None Detected | | 100% Other | White Non Fibrous Homogeneous |
| 71913943PLM_65 | - | | | | Dissolved |
| 0020C | Stone masonry mortar, exterior Loc 32 | None Detected | | 100% Other | White Non Fibrous Homogeneous |
| 71913943PLM_66 | - | | | | Dissolved |
| 0021A | Firestop, grey caulking at pipe penetrations, Loc 32 | 3% Chrysotile | | 97% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_67 | | | | | Dissolved |
| 0021B | Firestop, grey caulking at pipe penetrations, Loc 32 | Not Analyzed | | | |
| 71913943PLM_68 | - | - | | | |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

w Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RM

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID | Description | A | Fibrous | Non-Fibrous | Attributes |
|----------------|-----------------------------------------------------------------------------|---------------|------------|-------------|--------------------------------------|
| Lab Sample ID | Lab Notes | Asbestos | Components | Components | Treatment |
| 0021C | Firestop, grey caulking at pipe penetrations, Loc 32 | Not Analyzed | | | |
| 71913943PLM_69 | _ | | | | |
| 0022A | Caulking, exterior concrete block expansion joints, Loc 32 | 3% Chrysotile | | 97% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_70 | | | | | Ashed, Dissolved |
| 0022B | Caulking, exterior concrete block expansion joints, Loc 32 | Not Analyzed | | | |
| 71913943PLM_71 | - | | | | |
| 0022C | Caulking, exterior concrete block expansion joints, Loc 32 | Not Analyzed | | | |
| 71913943PLM_72 | - | | | | |
| 0023A - A | Caulking, light grey with yellow underneath at exterior vents, Loc 32 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_73 | caulk 1 | | | | Ashed, Dissolved |
| 0023A - B | Caulking, light grey with yellow underneath at exterior vents, Loc 32 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_88 | caulk 2 | | | | Ashed, Dissolved |
| 0023B - A | Caulking, light grey with yellow underneath at exterior vents, Loc 32 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_74 | caulk 1 | | | | Ashed, Dissolved |
| 0023B - B | Caulking, light grey with yellow underneath at exterior vents, Loc 32 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_89 | caulk 2 | | | | Ashed, Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (90)

Analyst

Approved Signatory



By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8 Attn: Greg Livingston Ryan Farnsworth

 Lab Order ID:
 71913943

 Analysis ID:
 71913943_PLM

 Date Received:
 5/24/2019

 Date Reported:
 5/24/2019

RW

NVLAPI

Project: 238555,290 Durham St W Walkerton, City of Brockton

| Sample ID Lab Sample ID | Description Lab Notes | Asbestos | Fibrous Components | Non-Fibrous Components | Attributes Treatment |
|----------------------------|-----------------------------------------------------------------------------|---------------|-----------------------|---------------------------|--------------------------------------|
| 0023C - A | Caulking, light grey with yellow underneath at exterior vents, Loc 32 | None Detected | | 100% Other | Gray Non Fibrous Homogeneous |
| 71913943PLM_75 | caulk 1 | | | | Ashed, Dissolved |
| 0023C - B | Caulking, light grey with yellow underneath at exterior vents, Loc 32 | None Detected | | 100% Other | Yellow Non Fibrous Homogeneous |
| 71913943PLM_90 | caulk 2 | | | | Ashed, Dissolved |

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, verniculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%. Philip Szabo (90)

A Approved Signatory

P-F-002 r15 1/16/2021

Analyst

| Client: | Pinchin Ltd. | *instructions: | Version 1-15-201 |
|-----------------|---------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------|
| Contact: | Greg Livingston 283 Northfield Drive East, | Use Column "B" for your contact info | |
| Address: | Waterloo | and and have been a | |
| Phone: | 519-746-4210 | To See an Example Click the | Invoice to: |
| Fax: | 519-746-7108 | bottom Example Tab. | ap@pinchin.com |
| Email: | glivingston@pinchin.com | | Email address here |
| | rfarnsworth@pinchin.com 238555,290 Durham St W | Enter samples between "<<" and ">>" | and a |
| Project: | Walkerton, City of Brockton | Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample. | Scientific Analytical |
| Client Notes: | | Only Enter your data on the first sheet "Sheet1" | Institute |
| P.O. #. | 238555 | Note: Data 1 and Data 2 are optional | 4604 Dundas Dr. |
| Date Submitted: | May 23,2019 | fields that do not show up on the official | Greensboro, NC 27407 |
| | | report, however they will be included | Phone: 336.292.3888 |
| Analysis: | PLM - Stop Positive | in the electronic data returned to you | Fax: 336.292.3313 |
| TurnAroundTime: | 4days | to facilitate your reintegration of the report data. | Email: lab@sailab.com |

| Sample Number | Data 1 (Lab use only) | Sample Description | Data 2 (Lab use only\) |
|---------------|-----------------------|---------------------------------------------------------|------------------------------------|
| << | | | |
| 0001A | | Floor mastic on concrete, under grey rubber tiles, Loc | 1 |
| 001B | | Floor mastic on concrete, under grey rubber tiles, Loc | 1 |
| 001C | | Floor mastic on concrete, under grey rubber tiles, Loc | 1 |
| 002A | | Baseboard mastic, beige under grey baseboards, Loc | 1 . |
| 002B | | Baseboard mastic, beige under grey baseboards, Loc | 1 |
| 002C | | Baseboard mastic, beige under grey baseboards, Loc | 1 |
| 003A | | Ceiling tile, lay-in, 2x4, pinhole and fleck, Loc 1 | |
| 003B | | Ceiling tile, lay-in, 2x4, pinhole and fleck, Loc 1 | Accesso |
| 003C | | Ceiling tile, lay-in, 2x4, pinhole and fleck, Loc 1 | |
| 004A | | Tar paper below foil on fiberglass insulated pipes, Loc | 1 |
| 004B | | Tar paper below foil on fiberglass insulated pipes, Loc | |
| 004C | | Tar paper below foil on fiberglass insulated pipes, Loc | |
| 005A | | Parging cement, white on pipe elbows, Loc 1 | |
| 005B | | Parging cement, white on pipe elbows, Loc 1 | |
| | | · | Wond the |
| | | | $\left(\left(10\right) \right) $ |
| | | | |
| | | | 1502 17: |
| | | | 1) 27 10 7 |
| | | | |

| 0005C | Parging cement, white on pipe elbows, Loc 1 |
|-------|---------------------------------------------------------------------|
| 0006A | Concrete block masonry mortar, Loc 1 |
| 0006B | Concrete block masonry mortar, Loc 1 |
| 0006C | Concrete block masonry mortar, Loc 2 |
| 0007A | Drywall joint compound, walls and bulkheads, Loc 2 |
| 0007B | Drywall joint compound, walls and bulkheads, Loc 2 |
| 0007C | Drywall joint compound, walls and bulkheads, Loc 2 |
| 0007D | Drywall joint compound, walls and bulkheads, Loc 3 |
| 0007E | Drywall joint compound, walls and bulkheads, Loc 3 |
| A8000 | Ceiling tile, lay-in, 2x4, pinhole and lengthwise fissure, Loc 2 |
| 0008B | Ceiling tile, lay-in, 2x4, pinhole and lengthwise fissure, Loc 2 |
| 0008C | Ceiling tile, lay-in, 2x4, pinhole and lengthwise fissure, Loc 2 |
| A6000 | Spray foam insulation, yellow on steel deck, Loc 2 |
| 0009B | Spray foam insulation, yellow on steel deck, Loc 2 |
| 0009C | Spray foam insulation, yellow on steel deck, Loc 2 |
| 0009D | Spray foam insulation, yellow on steel deck, Loc 2 |
| 0009E | Spray foam insulation, yellow on steel deck, Loc 2 |
| 0009F | Spray foam insulation, yellow on steel deck, Loc 9 |
| 0009G | Spray foam insulation, yellow on steel deck, Loc 9 |
| 0010A | Caulking, interior concrete block expansion joints, white, Loc 2 |
| 0010B | Caulking, interior concrete block expansion joints, white, Loc 2 |
| 0010C | Caulking, interior concrete block expansion joints, white, Loc 2 |
| 0011A | Vinyl floor tile, 12x12 light grey with red and white fleck, Loc 3 |
| 0011B | Vinyl floor tile, 12x12 light grey with red and white fleck, Loc 3 |
| 0011C | Vinyl floor tile, 12x12 light grey with red and white fleck, Loc 10 |
| 0012A | Ceiling tile, lay-in, 2x4, small and medium perforation, Loc 3 |
| 0012B | Ceiling tile, lay-in, 2x4, small and medium perforation, Loc 3 |
| 0012C | Ceiling tile, lay-in, 2x4, small and medium perforation, Loc 3 |
| 0013A | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 |
| 0013B | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 |
| 0013C | Vinyl floor tile, 12x12, white, beige and olive fleck, Loc 3 |
| 0014A | Vinyl floor tile, 12x12, beige with red fleck, Loc 6 |
| 0014B | Vinyl floor tile, 12x12, beige with red fleck, Loc 6 |
| 0014C | Vinyl floor tile, 12x12, beige with red fleck, Loc 10 |
| 0015A | Baseboard mastic, dark brown under black baseboards, Loc 7 |
| 0015B | Baseboard mastic, dark brown under black baseboards, Loc 7 |
| 0015C | Baseboard mastic, dark brown under black baseboards, Loc 7 |

| 0016A | Gold sink undercoating, Loc 8 |
|-------|------------------------------------------------------------------------|
| 0016B | Gold sink undercoating, Loc 8 |
| 0016C | Gold sink undercoating, Loc 8 |
| 0017A | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 |
| 0017B | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 |
| 0017C | Vinyl floor tile, 12x12, grey and white fleck, Loc 16 |
| 0018A | Concrete parging on ceiling and walls, Loc 20 |
| 0018B | Concrete parging on ceiling and walls, Loc 20 |
| 0018C | Concrete parging on ceiling and walls, Loc 20 |
| 0019A | Vinyl sheet flooring, white and grey patterned, Loc 31 |
| 0019B | Vinyl sheet flooring, white and grey patterned, Loc 31 |
| 0019C | Vinyl sheet flooring, white and grey patterned, Loc 31 |
| 0020A | Stone masonry mortar, exterior Loc 32 |
| 0020B | Stone masonry mortar, exterior Loc 32 |
| 0020C | Stone masonry mortar, exterior Loc 32 |
| 0021A | Firestop, grey caulking at pipe penetrations, Loc 32 |
| 0021B | Firestop, grey caulking at pipe penetrations, Loc 32 |
| 0021C | Firestop, grey caulking at pipe penetrations, Loc 32 |
| 0022A | Caulking, exterior concrete block expansion joints, Loc 32 |
| 0022B | Caulking, exterior concrete block expansion joints, Loc 32 |
| 0022C | Caulking, exterior concrete block expansion joints, Loc 32 |
| 0023A | 'Caulking, light grey with yellow underneath at exterior vents, Loc 32 |
| 0023B | Caulking, light grey with yellow underneath at exterior vents, Loc 32 |
| 0023C | Caulking, light grey with yellow underneath at exterior vents, Loc 32 |
| >> | |

APPENDIX II-B Lead Analytical Certificates



Analysis for Lead Concentration in Paint Chips

> by Flame Atomic Absorption Spectroscopy EPA SW-846 3050B/6010C/7000B



Customer: Pinchin Ltd. 283 Northfield Drive E., Unit #9 Waterloo, ON N2J 4G8

Attn: Greg Livingston Ryan Farnsworth Lab Order ID: 71913960 Analysis ID: 71913960_PBP Date Received: 5/24/2019 Date Reported: 5/31/2019

Project: 290 durham st w walkerton COB

| Sample ID Lab Sample ID | Description Lab Notes | Mass (g) | Concentration (ppm) | Concentration (% by weight) |
|----------------------------|--------------------------------------|-------------|------------------------|--------------------------------|
| L01 71913960PBP_1 | Light blue paint on CB walls, loc 1 | 0.0620 | < 65 | < 0.0065% |
| L02 71913960PBP_2 | Grey paint on CB walls, loc 1 | 0.0614 | < 65 | < 0.0065% |
| L03 71913960PBP_3 | Dark green paint on CB walls, loc 2 | 0.0695 | < 58 | < 0.0058% |
| L04 71913960PBP_4 | Beige paint on DW walls, loc 7 | 0.0595 | 91 | 0.0091% |
| L05 71913960PBP_5 | White paint on CB walls, loc 11 | 0.0721 | 1200 | 0.12% |
| L06 71913960PBP_6 | Dark blue paint on CB walls, loc 13 | 0.0657 | 9700 | 0.97% |
| L07 71913960PBP_7 | Grey paint on concrete floor, loc 16 | 0.0726 | < 55 | < 0.0055% |
| L08 71913960PBP_8 | Grey paint on metal beams, loc 28 | 0.0556 | 140 | 0.014% |
| L09 71913960PBP_9 | Red paint on CB walls, loc 29A | 0.0569 | 1100 | 0.11% |

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Sara Shaut (9)

Analyst

Laboratory Director

L-F-021 r17 2/14/2020 pbRpt_4.0.01_pbp001

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Page 1 of 1

| Client: | Pinchin Ltd. | *Instructions: | Version 1-15-2012 | |
|-----------------|---------------------------------|------------------------------------------------------------------------------------------------|--------------------------|--|
| Contact: | Greg Livingston | Use Column "B" for your contact info | | |
| Address: | 283 Northfield Dr E Waterloo ON | | Invoice to: | |
| Phone: | 289.925.5409 | To See an Example Click the | Accounts payable | |
| Fax: | | bottom Example Tab. | ap@pinchin.com | |
| Email: | glivingston@pinchin.com | | | |
| | rfarnsworth@pinchin.com | Enter samples between "<<" and ">>" | S | |
| Project: | 290 durham st w Walkerton COB | Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample. | Scientific Analytical | |
| Client Notes: | % lead by weight | Only Enter your data on the first sheet "Sheet1" | Institute | |
| P.O. #. | 238555 | Note: Data 1 and Data 2 are optional | 4604 Dundas Dr. | |
| Date Submitted: | May 23 2019 | fields that do not show up on the official | Greensboro, NC 27407 | |
| | | report, however they will be included | Phone: 336.292.3888 | |
| Analysis: | % lead by weight | in the electronic data returned to you | Fax: 336.292.3313 | |
| TurnAroundTime: | 4 days | to facilitate your reintegration of the report data. | Email: lab@sailab.com | |

| Sample Number | Data 1 (Lab use only) | Sample Description | Data 2 (Lab use only\) |
|---------------|-----------------------|--------------------------------------|------------------------|
| << | | | |
| L01 | | Light blue paint on CB walls, Loc 1 | |
| L02 | | Grey paint on CB walls, Loc 1 | Accepted M |
| L03 | | Dark green paint on CB walls, Loc 2 | |
| L04 | | Beige paint on DW walls, Loc 7 | Rejected |
| L05 | | White paint on CB walls, Loc 11 | |
| L06 | | Dark blue paint on CB walls, Loc 13 | (VAMMY 5-24 |
| L07 | | Grey paint on concrete floor, Loc 16 | |
| L08 | | Grey paint on metal beams, Loc 28 | (ADSGOUN |
| L09 | | Red paint on CB walls, Loc 29A | |
| >> | | | |

APPENDIX II-C PCB Analytical Certificates



AEVITAS INC. (AYR) ANALYTICAL CHEMISTRY DEPARTMENT 75 WANLESS COURT, AYR, ONTARIO, NOB 1E0, CANADA WWW.AEVITAS.CA



Printed: May 30, 2019

Certificate of Analysis

Greg Livingston

Pinchin Ltd. (Waterloo)

470 Weber Street North, Suite 103, Waterloo, Ontario, N2L 6J2

<u>Report Description:</u> 1 solid sample was submitted for the following chemical analysis

| Project Name: | City of Brockton HazMat | Date Sampled: | May 21, 2019 |
|----------------|-------------------------------|---------------|-----------------|
| Project No.: | 238555 | Date Tested: | May 30, 2019 |
| Site Location: | 290 Durham St W Walkerton, ON | Sampled by: | Greg Livingston |

Report Number: 19-0870

| No. | Analyte | Result | Units | MDL | Comments | Technique / Test Method | |
|----------|--------------------------------------------------------------------------|--------|-------|-----|----------|------------------------------------|--|
| <u>1</u> | Sample ID.: P01 - Exterior grey concrete expansion joint caulking | | | | | | |
| | PCBs in Solid | <0.5 | mg/kg | 0.5 | | LAB-M06 (EPA 3550C/8082A modified) | |

Results relate only to the samples tested above, as received.

Approved By:

Son C.H. Le, *B. Eng. (Chem.)* Lab Manager Phone: (519) 740-1333 Ext.: 230 Fax: (519) 740-2320 Email: SonLe@aevitas.ca

The Analytical Chemistry Laboratory of Aevitas Inc. (Ayr) is accredited for specific tests in accordance with the recognised International Standard ISO/IEC 17025:2005 by the Canadian Association for Laboratory Accreditation (CALA) Inc. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009). The laboratory quality management system of Aevitas Inc. (Ayr) meets the principles of ISO 9001:2008.

All Analytical data is subject to uncertainty which, may vary with sample matrices, sample preparation techniques and instrumental parameters. As a general guideline, uncertainty may be expressed as approximately +/- 50% of the reported value at or near the Method Detection Limit (MDL) and +/-10% or less, of the reported result that is greater than 10 times the MDL. Method Detection Limits are defined as approximately 3 times the standard deviation value (at 99% confidence level), which is obtained from replicate analysis of a low-level standard as per the Ontario MOE - MISA Protocol for the Sampling and Analysis of Industrial / Municipal Wastewater (1999). MDL determination is based on undiluted samples with relatively low matrix interferences. Where dilutions are required, the reported MDL value will be scaled proportionally.

All testing procedures follow strict guidelines and quality assurance / quality control (QA/QC) protocols. QA/QC data is available for review at any time upon client's request.

APPENDIX III Methodology



1.0 GENERAL

Pinchin conducts a room-by-room survey (rooms, corridors, service areas, exterior, etc.) to identify the hazardous building materials as defined by the scope of work. All work is conducted in accordance with our own internal Standard Operating Procedures.

Information regarding the location and condition of hazardous building materials encountered and visually estimated quantities are recorded. The locations of any samples collected are recorded on small-scale plans.

As-built drawings and previous reports are referenced where provided.

1.1 Limitations on Scope

The assessment excludes the following:

- Articles belonging to the owner, tenant or occupant (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 assessment was limited to non-intrusive testing. Concealed spaces such as those above solid ceilings and within shafts and pipe chases are accessed via existing access panels only. Demolition of walls, solid ceilings, structural items, interior finishes or exterior building finishes, to determine the presence of concealed materials is not conducted.

1.2 Asbestos

An inspection is conducted 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.





A separate set of samples is collected of each type of homogenous material suspected to contain asbestos. A homogenous material is defined by the US EPA 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 and available information on the phases of construction and prior renovations.

Samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

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

Flooring mastic or adhesive is sampled and analyzed if present on the underside of flooring samples (vinyl floor tile and vinyl sheet flooring).

Limited demolition of masonry block walls (core holes) is conducted to investigate for loose fill vermiculite insulation. The core holes are temporarily patched with expanding foam or caulking.

The bulk samples are submitted to a NVLAP 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.

Analytical results are compared to the following criteria.

| Jurisdiction | Friable | Non-Friable |
|--------------|---------|-------------|
| Ontario | 0.5% | 0.5% |

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria 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 equal to or 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 "does not contain asbestos", this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.





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);
- Accessibility (ranking from accessible to all building users to inaccessible);
- 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).

1.3 Lead

Samples of distinctive paint finishes and surface coatings present in more than a limited application, where removal of the paint is possible is collected. The samples are collected by scraping the painted finish to include base and covering applications. Drawings included show sample locations.

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

The Ontario Ministry of Labour (MOL) has not established a lower limit for concentrations of lead in paint, below which precautions do not need to be considered during construction projects. Pinchin follows the recommendations of the Environmental Abatement Council of Ontario (EACO) Lead Guideline for Construction, Renovation, Maintenance or Repair. The Guideline suggests that 0.1% (1,000 ppm) lead in paint represents a de minimis concentration of lead in paint for construction hygiene purposes, that is a concentration below which the lead content is not the limiting hazard in any disturbance of leaded paint for non-aggressive disturbance of painted finishes, (hand powered demolition, chipping, scraping, light sanding, etc.). The use of aggressive methods such as power grinding, torching, welding, etc. may result in significant lead exposures even with low concentrations of lead in paints (below 0.1%). Paint and surface coatings are evaluated for condition such as flaking, chipping or spalling.

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

1.4 Silica

Building materials known to contain crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) is identified by 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 are identified by visually inspection only. Dismantling of equipment suspected of containing mercury is not performed. Sampling of these materials for laboratory analysis of mercury content is not performed.

1.6 Polychlorinated Biphenyls

The potential for light ballast and wet transformers to contain PCBs is 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 presumed to be free of dielectric fluids and hence non-PCB.

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

Caulking or sealants are sampled for PCBs based on the date of construction or installation. Caulking installed after 1985 (1980 ban date plus a reasonable non-compliance period based on our experience) is presumed to be free of PCBs and hence not sampled. If sampled, analysis for PCBs is performed using an ASTM test method appropriate to the sample matrix at an accredited laboratory. Sample results are compared to the criteria of 50 ppm for solids as stated in the PCB Regulation, SOR/2008-273.

1.7 Visible Mould

The presence of mould is determined by visual inspection of exposed building surfaces. If any mould growth is concealed within building cavities it is not addressed in this assessment.

Methodology for Hazardous Building Materials Assessment

