



Revised
Hazardous Building
Materials Assessment

Susanna Moodie Public School
376 Avonlough Road, Belleville,
Ontario

Prepared for:

Hastings and Prince Edward
District School Board

224 Palmer Road
Belleville, ON K8P 4E1

Attention: Melanie Zeitz-Morrish
Energy and Environmental Technologist

July 10, 2017

Pinchin File: 200584.003



Issued to: Hastings and Prince Edward District School Board
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EXECUTIVE SUMMARY

Hastings and Prince Edward District School Board (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment of Susanna Moodie Public School located at 376 Avonlough Road, Belleville, Ontario. Pinchin performed the assessment on February 27, 2017. Pinchin returned on June, 26, 2017 to perform sampling of the roofing system.

The objective of the assessment was to identify specified hazardous building materials in preparation for planned renovations and for management purposes.

The assessed area consisted of the entire building with emphasis within Rooms 130, 131, 138 and 139 in areas of the proposed renovations as well as exterior windows/doors and ceilings throughout the building, and the roof.

SUMMARY OF FINDINGS

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

- Non-friable 24" x 48" lay-in acoustic ceiling tile with a small and medium random pinholes, containing amosite asbestos, is present in isolated locations within the building, in good condition.
- Non-friable Transite panels, presumed to contain asbestos, are present in Location 118 and associated practice rooms, concealed behind wood pegboard, in good condition.
- Non-friable Transite panels as lintels, presumed to contain asbestos, are present at six exterior windows and one door, in good conditions.
- Non-friable Transite rain water leaders, presumed to contain asbestos, are present in isolated locations within the building.
- Non-friable 12" grey vinyl floor tiles with brown streaks, containing chrysotile asbestos, are present in isolated locations within the building, in good condition.
- Non-friable brown caulking, containing chrysotile asbestos, is present at exterior windows and doors, in good condition.

Lead: Lead is present in emergency light batteries.

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

Mercury: Mercury vapour is present in fluorescent lamps.



SUMMARY OF RECOMMENDATIONS

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

1. Remove and properly dispose of asbestos-containing materials if disturbed by the planned renovation work.
2. Remove and properly dispose of mercury-containing items if disturbed by the planned renovation work.
3. Follow appropriate safe work procedures when handling or disturbing lead and silica.

Please refer to Section 4.0 of this report for detailed recommendations regarding administrative and renovation activities.

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.



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1.0 INTRODUCTION AND SCOPE

Hastings and Prince Edward District School Board (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment of Susanna Moodie Public School, located at 376 Avonlough Road, Belleville, Ontario.

Glenn Hendry, Project Manager, and Roger Jackson, Project Technologist, performed the assessment on February 27, 2017. Glenn Hendry, Project Manager, returned on June, 26, 2017 to perform sampling of the roof system. The surveyors were unaccompanied during the assessments. The assessments were completed after hours and the building was occupied by custodial personnel at the time of the assessment work.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovation. This assessment is intended to be used for pre-construction purposes, but also provides sufficient detail for long term management of hazardous materials as required by Health and Safety regulations. The results of this assessment are intended for use with a properly developed scope of work and performance specification.

1.1 Scope of Assessment

The assessment was performed to establish the location and type of specified hazardous building materials incorporated in the structure(s) and its finishes. The assessed area consisted of all parts of the building with emphasis within Rooms 130, 131, 138 and 139 in areas of the proposed renovations as well as exterior windows/doors and ceilings throughout the building, and the roof.

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 Ontario 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

Building Description Item	Details
Building Use	Institutional
Number of Floors/Levels	One with a partial second floor
Total Area of Building (Square Feet)	35,000
Year of Construction/Significant Additions/Renovations (area assessed)	1979
Structure	Structural steel, concrete
Exterior Cladding	Brick
HVAC	Rooftop HVAC, boiler and hot water heating to radiators and electric baseboards
Roof	Flat built-up roof
Flooring	Vinyl tile, vinyl sheet flooring, terrazzo, ceramic and concrete
Interior Walls	Drywall and concrete block
Ceilings	Drywall and acoustic ceiling tiles

3.0 FINDINGS

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 building and are not discussed in the report findings:

- Spray-applied fireproofing or thermal insulation.
- Plaster.

3.1.2 Texture Finishes (Acoustic/Decorative)

Texture finish, present at exterior canopies, does not contain asbestos (Samples 0002A-C). Presumed asbestos-containing Transite, present above exterior windows in the assessed area, may be present beneath texture finishes.



Non-asbestos exterior texture finish.

3.1.3 Thermal Systems Insulation (TSI)

3.1.3.1 Pipe Insulation

Parging cement, present on pipe fittings in the second floor mechanical room, Location 103 and Location 110, does not contain asbestos (Samples 0010A-C).

Remaining pipes are either uninsulated or insulated with non-asbestos fibreglass.



Non-asbestos paring cement present on pipe fittings.



Non-asbestos fiberglass insulation on pipe straights.

3.1.3.2 Duct Insulation

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

3.1.3.3 Mechanical Equipment Insulation

Mechanical equipment is either uninsulated or insulated with non-asbestos fiberglass.



Non-asbestos insulated boilers.

3.1.4 Vermiculite

Destructive testing was conducted of masonry block walls. The masonry block walls were penetrated in multiple locations, loose fill vermiculite was not observed. The locations of destructive testing have been indicated on the appended drawings.

3.1.5 Acoustic Ceiling Tiles

Four distinct types of acoustic ceiling tile are present in the building, as follows:

Size, Type, Pattern	Locations (Quantity of ACM in Square Feet)	Sample Number or Date Code	Asbestos Type
24" x 48", thick widthwise fissures and pinholes	Locations 100, 139 and 145	07/07/15	None
24" x 48", small and medium random pinholes	Location 101, 102, 104, 105, 118, 119, 121, 127, 130, 131, , 133, 134, 135, 137, 138, 146 (5,450 SF)	0006A-C	Amosite
24" x 48", thin fissures and pinholes	Locations 113, 122-126, 129 and 139	04/08/2010	None
24" x 48", widthwise fissures and pinholes	Location 132	06/27/2007	None

Ceiling tiles are considered to be non-friable and are in good condition.

Ceiling tiles 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 stopped being used in acoustic ceiling tiles.



Non-asbestos lay-in tiles with width wise fissures and pinholes.



Non-friable asbestos containing ceiling tiles with a small and medium pinhole pattern.

3.1.6 Drywall Joint Compound

Drywall joint compound is present as a wall and ceiling finish in isolated locations within the building, does not contain asbestos (Samples 0007A-C).

3.1.7 Asbestos Cement Products (Transite)

Transite board is present behind wood pegboard in Location 118 and associated practice rooms. Transite is presumed to contain asbestos based on visual observation. Approximately 800 square feet of Transite is present in Location 118.

Transite panels, are present at heads of six exterior windows and one door. Approximately 40 square feet (total area) of Transite panels is visible.

Transite pipe is present as rain water leaders in isolated locations within the building and is presumed to contain asbestos based on visual observation. Approximately 280 linear feet of Transite was visible; however, additional pipe may be concealed in wall and ceiling spaces.

Transite is a non-friable material and in good condition.



Transite panels above exterior windows.



Transite rain water leaders.



Transite panels behind wood pegboard in Location 118.

3.1.8 Vinyl Sheet Flooring

White vinyl sheet flooring with grey flecks, present in Locations 134 and 135, does not contain asbestos (Samples 0008A-C).



Non-asbestos vinyl sheet flooring.

3.1.9 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, Colour	Locations (Quantity of ACM)	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" grey with brown streaks	Locations 100, 101, 102, 105, 120, 113 and 117 Stage (2,500 SF)	0004A-C	Chrysotile	None Detected [†]
12" off-white with beige fleck	Locations 101, 115, 122-133 and 145	0005A-C	None Detected	None Detected
12" brown with beige fleck	Locations 104 and 121	0009A-C	None Detected	None Detected

The vinyl floor tiles and mastic are non-friable and are in good condition.

[†]Sample 0004A did not have sufficient mastic present to analyse. However, a total of 8 black floor tile mastic samples were collected throughout the building (Samples 0004B and C, 0005A-C and 0009A-C).

The black floor tile mastic is considered non-asbestos.



Non-friable asbestos-containing grey vinyl floor tile with brown streaks.



Non-asbestos off-white and brown vinyl floor tiles.

3.1.10 Sealants, Caulking, and Putty

Brown caulking, present at approximately 15 exterior windows and doors, contains chrysotile asbestos (Samples 0001A-C). Caulking is non-friable and is in good condition.

Sealant, present at exterior expansion joints, does not contain asbestos (Samples 0003A-C).



Non-friable brown caulking present at exterior windows and doors.

3.1.11 Roofing Products

Built-up roofing (layered tar and paper), present on the roof over the building, does not contain asbestos (Samples 0011A-C).

3.1.12 Presumed Asbestos Materials

A number of materials which might contain asbestos were not sampled during the assessment due to limitations in scope and methodology. Where present, these materials must be presumed to be an asbestos material and are best sampled during project planning and preparation of contract documents for their removal. Materials presumed to contain asbestos include:

- Concrete floor levelling compound.

3.2 Lead

3.2.1 Paints and Surface Coatings

A total of eight paint samples were collected from interior painted finishes. The following table summarizes the analytical results for paints sampled and their locations:

Sample Number	Colour, Substrate Description	Sample Location	Lead (ug/g)
P1	Off-white, concrete block	Location 103	<20
P2	Off-white, concrete block	Location 136	474
P3	Light yellow, concrete block	Location 130	<20
P4	Light yellow, concrete block	Location 124	<20
P5	Off-white, concrete block	Location 121	<20
P6	Off-white, concrete block	Location 143	32
P7	Off-white, concrete block	Location 115	<20
P8	Off-white, concrete block	Location 138	<20

All paints contain insignificant concentrations of lead (i.e. <1,000 ug/g).

3.2.2 *Lead Products and Applications*

Lead-containing batteries are present in emergency lighting.



Emergency light containing lead acid batteries.

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.

3.3 **Silica**

Crystalline silica is a presumed component of the following materials where present in the building:

- Poured or pre-cast concrete.
- Masonry and mortar.
- Ceramic tiles, grout.
- Terrazzo.

3.4 **Mercury**

3.4.1 *Lamps*

Mercury vapour is present in fluorescent lamps.

3.4.2 *Mercury-Containing Devices*

Mercury-containing devices were not found during the assessment.

3.5 **Polychlorinated Biphenyls**

3.5.1 *Caulking*

Brown caulking and expansion joint sealant, present at exterior windows, doors and control joints (Samples PCB1 and PCB2) contains <5.00 ppm PCBs. The materials are a non-PCB solids based on the threshold given in SOR/2008-273 (50 ppm).

3.5.2 *Lighting Ballasts*

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

3.5.3 *Transformers*

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

3.6 **Mould**

Visible mould growth was not found during the assessment.

4.0 **RECOMMENDATIONS**

4.1 **General**

1. Investigate any items excluded from the scope of work of this report.
2. Provide this report to the contractor prior to bidding or commencing work.
3. Retain a qualified consultant to specify, inspect and verify the successful removal of hazardous materials.
4. Update the asbestos inventory upon completion of the abatement and removal of asbestos-containing materials.

4.2 **Building Renovation Work**

The following recommendations are made regarding renovation involving the hazardous materials identified.

4.2.1 *Asbestos*

Remove asbestos-containing materials (ACM) prior to renovation, alteration and maintenance work if ACM may be disturbed by the work.

If the identified ACM will not be removed prior to commencement of the work, disturbance of ACM must follow the 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.

4.2.1.1 *Acoustic Ceiling Tiles*

If ceiling tiles are to be removed (for disposal or if being reinstalled) as a result of planned demolition, renovation, etc., use Type 1 procedures as outlined within Ontario Regulation 278/05 to remove less than 7.5 square metres, and use Type 2 procedures as outlined within Ontario Regulation 278/05 to remove more than 7.5 square metres.

4.2.1.2 *Asbestos-Cement (Transite) Materials*

If asbestos cement (Transite) materials must be removed as a result of planned demolition, renovation, etc. use Type 1 procedures as outlined within Ontario Regulation 278/05 if the work is done using wet methods and using hand-held non-powered tools.

4.2.1.3 *Vinyl Floor Tiles*

If vinyl floor tiles must be removed as a result of planned demolition, renovation, etc., use Type 1 procedures as outlined within Ontario Regulation 278/05 if the work is done using wet methods and using hand-held non-powered tools.

4.2.1.4 *Caulking and Sealants*

If the brown caulking must be removed as a result of planned demolition, renovation, etc., use Type 1 procedures as outlined within Ontario Regulation 278/05.

4.2.2 *Lead*

Analytical results indicate that all 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.

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



4.2.3 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.

4.2.4 Mercury

Do not break lamps. Recycle and reclaim mercury from fluorescent lamps.

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

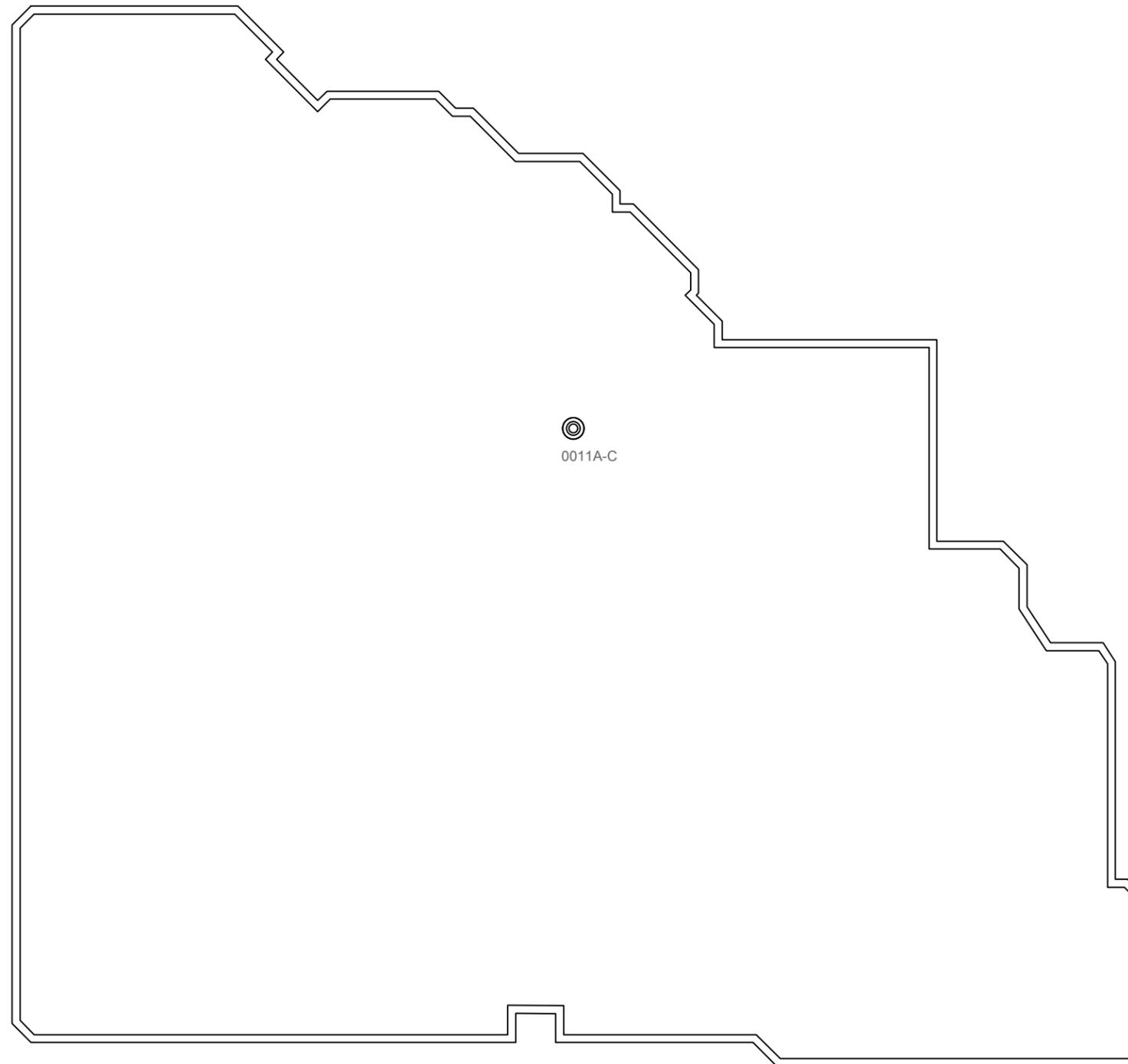
The following legislation and documents were referenced in completing the assessment and this report:

1. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.
3. Lead on Construction Projects, Ministry of Labour Guidance Document.
4. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 347 as amended.
5. Surface Coating Materials Regulations, SOR/2005-109, Hazardous Products Act.
6. Silica on Construction Projects, Ministry of Labour Guidance Document.
7. Alert – Mould in Workplace Buildings, Ontario Ministry of Labour.

200584.003 DSR SuzannaMoodiePS HPEDSB Revised 2.docx

Template: Master Report for Hazardous Materials Assessment Report (Pre-Construction), Haz, January 16, 2017

APPENDIX I
Drawings



LEGEND:

-  ASBESTOS BULK SAMPLE
-  LEAD BULK SAMPLE
-  PCB BULK SAMPLE
-  INTRUSIVE INVESTIGATION LOCATION
-  ASBESTOS-CONTAINING ACOUSTIC CEILING TILES
-  ASBESTOS-CONTAINING VINYL FLOOR TILES
-  PRESUMED ASBESTOS-CONTAINING TRANSITE PANELS
-  PRESUMED ASBESTOS-CONTAINING TRANSITE RAIN WATER LEADERS

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

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

BASE PLAN PROVIDED BY CLIENT.

CLIENT:
HASTINGS AND PRINCE EDWARD
DISTRICT SCHOOL BOARD

LOCATION:
376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
SUSANNA MOODIE PUBLIC SCHOOL

TITLE:
HAZARDOUS BUILDING MATERIALS
ASSESSMENT
ROOF

DATE: 2017/07/10	PROJECT # : 200584.003
DRAWN BY: G.H.	DRAWING: 2 OF 2
CHECKED BY: S.Y.	
SCALE: NTS	

APPENDIX II-A
Asbestos Analytical Certificates



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
1456 Centennial Drive Suite 2
Kingston, ON K7L 0A5

Attn: Glenn Hendry
Michael Harrett

Lab Order ID: 1704507
Analysis ID: 1704507_PLM
Date Received: 3/3/2017
Date Reported: 3/7/2017

Project: 200584.003, HPEDSB, Susan Moodie, 376 Avonlough Road, Belleville

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0001A	Brown caulking, north facing window	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
1704507PLM_1					Ashed
0001B	Brown caulking, northeast facing window	Not Analyzed			
1704507PLM_2					
0001C	Brown caulking, south-central window	Not Analyzed			
1704507PLM_3					
0002A	Exterior canopy texture, northeast	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1704507PLM_4					Crushed
0002B	Exterior canopy texture, southeast	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1704507PLM_5					Crushed
0002C	Exterior canopy texture, southwest	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1704507PLM_6					Crushed
0003A	Expansion Joint Sealant, south	None Detected		100% Other	Gray Non Fibrous Homogeneous
1704507PLM_7					Ashed
0003B	Expansion Joint Sealant, south	None Detected		100% Other	Gray Non Fibrous Homogeneous
1704507PLM_8					Ashed

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 SAL. 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%.

Bobby Wheatley (41)

Analyst

Approved Signatory



Bulk Asbestos Analysis

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0003C	Expansion Joint Sealant, south	None Detected		100% Other	Gray Non Fibrous Homogeneous
1704507PLM_9					Ashed
0004A	12" vinyl floor tile, grey with brown streak, stage	3% Chrysotile		97% Other	Gray Non Fibrous Homogeneous
1704507PLM_10	tile only				Dissolved
0004B - A	12" vinyl floor tile, grey with brown streak, Location 119	Not Analyzed			
1704507PLM_11	tile				
0004B - B	12" vinyl floor tile, grey with brown streak, Location 119	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_31	mastic				Dissolved
0004C - A	12" vinyl floor tile, grey with brown streak, Location 117	Not Analyzed			
1704507PLM_12	tile				
0004C - B	12" vinyl floor tile, grey with brown streak, Location 117	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_32	mastic				Dissolved
0005A - A	12" vinyl floor tile, off-white with beige fleck, Location 101	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_13	tile				Dissolved
0005A - B	12" vinyl floor tile, off-white with beige fleck, Location 101	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_33	mastic				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0005B - A	12" vinyl floor tile, off-white with beige fleck, Location 130	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_14	tile				Dissolved
0005B - B	12" vinyl floor tile, off-white with beige fleck, Location 130	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_34	mastic				Dissolved
0005C - A	12" vinyl floor tile, off-white with beige fleck, Location 124	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_15	tile-ashed				Ashed
0005C - B	12" vinyl floor tile, off-white with beige fleck, Location 124	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_35	mastic				Dissolved
0006A	2 x 4 lay-in acoustic ceiling tile, small and medium random pinholes (pink backin	3% Amosite	40% Cellulose 37% Fiber Glass	20% Other	Gray Fibrous Heterogeneous
1704507PLM_16					Teased, Dissolved
0006B	2 x 4 lay-in acoustic ceiling tile, small and medium random pinholes (pink backin	Not Analyzed			
1704507PLM_17					
0006C	2 x 4 lay-in acoustic ceiling tile, small and medium random pinholes (pink backin	Not Analyzed			
1704507PLM_18					
0007A	Drywall joint compound, Location 136	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_19					Crushed

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Lab Sample ID	Lab Notes				Treatment
0007B	Drywall joint compound, Location 130	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_20					Crushed
0007C	Drywall joint compound, Location 109	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_21					Crushed
0008A - A	Vinyl sheet flooring, white and grey flecks, Location 134	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_22	vinyl				Dissolved
0008A - B	Vinyl sheet flooring, white and grey flecks, Location 134	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1704507PLM_36	mastic				Dissolved
0008B - A	Vinyl sheet flooring, white and grey flecks, Location 134	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_23	vinyl				Dissolved
0008B - B	Vinyl sheet flooring, white and grey flecks, Location 134	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1704507PLM_37	mastic				Dissolved
0008C - A	Vinyl sheet flooring, white and grey flecks, Location 135	None Detected		100% Other	White Non Fibrous Homogeneous
1704507PLM_24	vinyl				Dissolved
0008C - B	Vinyl sheet flooring, white and grey flecks, Location 135	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1704507PLM_38	mastic				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 SAL. 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%.

Bobby Wheatley (41)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
1456 Centennial Drive Suite 2
Kingston, ON K7L 0A5

Attn: Glenn Hendry
Michael Harrett

Lab Order ID: 1704507
Analysis ID: 1704507_PLM
Date Received: 3/3/2017
Date Reported: 3/7/2017

Project: 200584.003, HPEDSB, Susan Moodie, 376 Avonlough Road, Belleville

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0009A - A	12" vinyl floor tile, brown with beige fleck, Location 121	None Detected		100% Other	Beige Non Fibrous Homogeneous
1704507PLM_25	tile				Dissolved
0009A - B	12" vinyl floor tile, brown with beige fleck, Location 121	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_39	mastic				Dissolved
0009B - A	12" vinyl floor tile, brown with beige fleck, Location 104	None Detected		100% Other	Beige Non Fibrous Homogeneous
1704507PLM_26	tile				Dissolved
0009B - B	12" vinyl floor tile, brown with beige fleck, Location 104	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_40	mastic				Dissolved
0009C - A	12" vinyl floor tile, brown with beige fleck, Location 104	None Detected		100% Other	Beige Non Fibrous Homogeneous
1704507PLM_27	tile-ashed				Ashed
0009C - B	12" vinyl floor tile, brown with beige fleck, Location 104	None Detected		100% Other	Black Non Fibrous Homogeneous
1704507PLM_41	mastic				Dissolved
0010A	Parging cement, hot water heating pipe, Mech Room above Location 110	None Detected	20% Fiber Glass	80% Other	Gray Fibrous Heterogeneous
1704507PLM_28					Teased
0010B	Parging cement, hot water heating pipe, Mech Room above Location 110	None Detected	20% Fiber Glass	80% Other	Gray Fibrous Heterogeneous
1704507PLM_29					Teased

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 SAL. 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%.

Bobby Wheatley (41)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
1456 Centennial Drive Suite 2
Kingston, ON K7L 0A5

Attn: Glenn Hendry
Michael Harrett

Lab Order ID: 1704507
Analysis ID: 1704507_PLM
Date Received: 3/3/2017
Date Reported: 3/7/2017

Project: 200584.003, HPEDSB, Susan Moodie, 376 Avonlough Road, Belleville

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0010C	Parging cement, hot water heating pipe, Mech Room above Location 110	None Detected	20% Fiber Glass	80% Other	Gray Fibrous Heterogeneous
1704507PLM_30					Teased

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 SAL. 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%.

Bobby Wheatley (41)

Analyst

Approved Signatory

1704507

Version 1-15-2012

Client: Pinchin Ltd.
Contact: Glenn Hendry
 135 Ontario Street, Unit# 1
 Kingston, ON K7L 0A5
Address:
Phone: 613-541-1013
Fax:
Email: ghendry@pinchin.com
 mharrett@pinchin.com
Project: 200584.003, HPEDSB, Susan
 Moodie, 376 Avonlough Road,
 Belleville
Client Notes:
P.O. #: 200584.003
Date Submitted: Mar. 2, 2017
Analysis: PLM - Stop Positive
TurnAroundTime: 4 days

***Instructions:**
 Use Column "B" for your contact info

To See an Example Click the
 bottom Example Tab.

Enter samples between "<<" and ">>"

Begin Samples with a "<<" above the first sample
 and end with a ">>" below the last sample.
 Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional
 fields that do not show up on the official
 report, however they will be included
 in the electronic data returned to you
 to facilitate your reintegration of the report data.

Invoice to:
 Contact name here
 Email address here

Scientific Analytical Institute



**4604 Dundas Dr.
 Greensboro, NC 27407
 Phone: 336.292.3888
 Fax: 336.292.3313
 Email: lab@sailab.com**

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only)
---------------	-----------------------	--------------------	-----------------------

<<			
0001A		Brown caulking, north facing window	
0001B		Brown caulking, northeast facing window	
0001C		Brown caulking, south-central window	
0002A		Exterior canopy texture, northeast	
0002B		Exterior canopy texture, southeast	
0002C		Exterior canopy texture, southwest	
0003A		Expansion Joint Sealant, south	
0003B		Expansion Joint Sealant, south	
0003C		Expansion Joint Sealant, south	
0004A		12" vinyl floor tile, grey with brown streak, stage	
0004B		12" vinyl floor tile, grey with brown streak, Location 119	
0004C		12" vinyl floor tile, grey with brown streak, Location 117	
0005A		12" vinyl floor tile, off-white with beige fleck, Location 101	
0005B		12" vinyl floor tile, off-white with beige fleck, Location 130	
0005C		12" vinyl floor tile, off-white with beige fleck, Location 124	
0006A		2 x 4 lay-in acoustic ceiling tile, small and medium random pinholes (pink backing), Location 101	
0006B		2 x 4 lay-in acoustic ceiling tile, small and medium random pinholes (pink backing), Location 146	

Accepted

Rejected

Julie 3-3
10A

0006C	2 x 4 lay-in acoustic ceiling tile, small and medium random pinholes (pink backing), Location 118
0007A	Drywall joint compound, Location 136
0007B	Drywall joint compound, Location 130
0007C	Drywall joint compound, Location 109
0008A	Vinyl sheet flooring, white and grey flecks, Location 134
0008B	Vinyl sheet flooring, white and grey flecks, Location 134
0008C	Vinyl sheet flooring, white and grey flecks, Location 135
0009A	12" vinyl floor tile, brown with beige fleck, Location 121
0009B	12" vinyl floor tile, brown with beige fleck, Location 104
0009C	12" vinyl floor tile, brown with beige fleck, Location 104
0010A	Parging cement, hot water heating pipe, Mech Room above Location 110
0010B	Parging cement, hot water heating pipe, Mech Room above Location 110
0010C	Parging cement, hot water heating pipe, Mech Room above Location 110
>>	



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name:	HPEDSB, Susan Moodie, 376 Avonlough Road, Belleville		
Project No.:	0200584.003		
Prepared For:	G. Hendry / M. Harrett		
Lab Reference No.:	b172603		
Analyst(s):	A. Di Giulio		
Date Received:	July 4, 2017	# Samples submitted:	3
Date Analyzed:	July 4, 2017	# Phases analyzed:	8

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

NOTE: *This test report may not be reproduced, except in full, without the written approval of the laboratory. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. This report is valid only when signed in blue ink by the analyst. Vinyl asbestos floor tiles contain very fine fibres of asbestos and may be missed by some laboratories using the PLM method. Internal verification studies performed by Pinchin indicate that the chance of missing asbestos in floor tiles is no higher than about 2%. The vinyl tile study and laboratory documentation on measurement uncertainty is available upon request. The analysis of dust samples by PLM cannot be used as an indicator of past or present airborne asbestos fibre levels.*



**Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis**

Project Name: HPEDSB, Susan Moodie, 376 Avonlough Road, Belleville
Project No.: 0200584.003
Prepared For: G. Hendry / M. Harrett

Lab Reference No.: b172603
Date Analyzed: July 4, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0011A Roofing material, mechanical penthouse	a) Homogeneous, black, layered, tar impregnated, compressed fibrous material.	None Detected	Cellulose 50-75% Tar and other non-fibrous 25-50%
	b) Homogeneous, black, layered, tar material.	None Detected	Tar and other non-fibrous > 75%
Comments:	Man-made vitreous fibres are present on the surface of this sample.		
0011B Roofing material, mechanical penthouse	a) Homogeneous, black, layered, tar impregnated, compressed fibrous material.	None Detected	Cellulose 50-75% Tar and other non-fibrous 25-50%
	b) Homogeneous, black, layered, tar material.	None Detected	Tar and other non-fibrous > 75%
Comments:	Man-made vitreous fibres are present on the surface of this sample.		



**Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis**

Project Name: HPEDSB, Susan Moodie, 376 Avonlough Road, Belleville
Project No.: 0200584.003
Prepared For: G. Hendry / M. Harrett

Lab Reference No.: b172603
Date Analyzed: July 4, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0011C Roofing material, mechanical penthouse	4 Phases:		
	a) Homogeneous, black, layered, tar impregnated, compressed fibrous material.	None Detected	Cellulose 50-75% Tar and other non-fibrous 25-50%
	b) Homogeneous, black, layered, tar material.	None Detected	Tar and other non-fibrous > 75%
	c) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose > 75% Tar and other non-fibrous 10-25%
	d) Homogeneous, black, tar material.	None Detected	Tar and other non-fibrous > 75%
Comments:	Man-made vitreous fibres are present on the surface of this sample.		

Reviewed by:

Digitally signed
by Julieth Oran
Date: 2017.07.04
15:12:30 -04'00'

Reporting Analyst:

Digitally signed
by Julieth Oran
Date: 2017.07.04
15:12:16 -04'00'



Analyzed by: AD
 Reviewed by: JA
 Report Sent by: JR

**Pinchin Ltd.+A1:I20 - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	HPEDSB	Project Address:	376 Avonlough Road, Belleville
Portfolio/Building No:	Susan Moodie	Pinchin File:	200584.003
Submitted by:	Glenn Hendry	Email:	ghendry@pinchin.com
CC Results to:		CC Email:	mharrett@pinchin.com
Date Submitted:	June 26 2017	Required by:	June 27 2017
# of Samples:	3	Priority:	5 Day Turnaround RUSH
Year of Building Construction (Mandatory, Years ONLY):			
Do NOT Stop on Positive (Sample Numbers):			
Pinchin Group Company (Mandatory Field):		Pinchin	

To be Completed by Lab Personnel Only:

Lab Reference #:	<u>0172603</u>	Time:	24 hour clock
Received by:	<u>JR JUN 27 2017 - July 4th</u>	Date:	Month Day Year
Name(s) of Analyst(s):	<u>OPEN</u>		<u>07/04/17</u>

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	0011	A	Roofing material, mechanical penthouse <u>AND BIND</u>
	0011	B	Roofing material, mechanical penthouse <u>AND BIND</u>
	0011	C	Roofing material, mechanical penthouse <u>AND BIND AND BIND</u>

APPENDIX II-B
Lead Analytical Certificates

Certificate of Analysis

Pinchin Ltd. (Kingston)

1456 Centennial Drive, Suite 2
Kingston, ON K7P 0K4

Attn: Glenn Hendry

Client PO: Susan Moodie

Project: 200584.003

Custody:

Report Date: 3-Mar-2017

Order Date: 1-Mar-2017

Order #: 1709254

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

Parcel ID	Client ID
1709254-01	P1, off-white, concrete block, Location 103
1709254-02	P2, off-white, concrete block, Location 136
1709254-03	P3, light yellow, concrete block, Location 130
1709254-04	P4, light yellow, concrete block, Location 124
1709254-05	P5, light yellow, concrete block, Location 121
1709254-06	P6, off-white, concrete block, Location 143
1709254-07	P7, off-white, concrete block, Location 115
1709254-08	P8, off-white, concrete block, Location 138

Approved By:



Mark Foto, M.Sc.

Lab Supervisor

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

Certificate of Analysis
Client: Pinchin Ltd. (Kingston)
Client PO: Susan Moodie

Report Date: 03-Mar-2017
Order Date: 1-Mar-2017
Project Description: 200584.003

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-OES	based on MOE E3470, ICP-OES	3-Mar-17	3-Mar-17

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

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

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO: Susan Moodie

Report Date: 03-Mar-2017
 Order Date: 1-Mar-2017
 Project Description: 200584.003

Sample Results

Lead				Matrix: Paint
				Sample Date: 27-Feb-17
Paracel ID	Client ID	Units	MDL	Result
1709254-01	P1, off-white, concrete block, Location 103	ug/g	20	<20
1709254-02	P2, off-white, concrete block, Location 136	ug/g	20	474
1709254-03	P3, light yellow, concrete block, Location 130	ug/g	20	<20
1709254-04	P4, light yellow, concrete block, Location 124	ug/g	20	<20
1709254-05	P5, light yellow, concrete block, Location 121	ug/g	20	<20
1709254-06	P6, off-white, concrete block, Location 143	ug/g	20	32
1709254-07	P7, off-white, concrete block, Location 115	ug/g	20	<20
1709254-08	P8, off-white, concrete block, Location 138	ug/g	20	<20

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	20	ug/g						
Matrix Duplicate									
Lead	26600	20	ug/g	29600			10.6	30	
Matrix Spike									
Lead	218		ug/L		87.3	70-130			



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e: paracel@paracellabs.com
www.paracellabs.com

Page 1 of 1

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Client Name: Pinchin	Project Reference: 200584.003	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day
Contact Name: Glenn Hendry	Quote # Susan Moodie	<input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day
Address: 1456 Centennial Drive, Suite 2	PO #	Date Required: _____
Telephone: 613-541-1013	Email Address: ghendry@pinchin.com	

Criteria O. Reg. 153 (As Amended) Table RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other) Required Analyses

Parcel Order Number:	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Lead	Required Analyses															
					Date	Time																	
1709254	P1, off white, concrete block, Location 103	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P2, off-white, concrete block, Location 136	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P3, light yellow, concrete block, Location 130	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P4, light yellow, concrete block, Location 124	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P5, light yellow, concrete block Location 121	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P6, off-white, concrete block, Location 143	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P7, off-white, concrete block, Location 115	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	P8 off-white, concrete block, Location 138	p		1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
	9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: cc Sarah Young with Results Method of Delivery: *Pick up*

Relinquished By (Sign): <i>Glenn Hendry</i>	Received by Driver/Depot: <i>Max Esdr</i>	Received at Lab: <i>Sarah</i>	Verified By: <i>Rachel subject</i>
Relinquished By (Print): Glenn Hendry	Date/Time: <i>Mar 1 117 3:04 p</i>	Date/Time: <i>Mar 2/17 10:45 AM</i>	Date/Time: <i>Mar 2/17</i>
Date/Time: Mar 1, 2017 3 pm	Temperature: _____ °C	Temperature: <i>15</i> °C	pH Verified (X) By: <i>N/A</i> 11:07

APPENDIX II-C
PCB Analytical Certificates

Certificate of Analysis

Pinchin Ltd. (Kingston)

1456 Centennial Drive, Suite 2
Kingston, ON K7P 0K4
Attn: Glenn Hendry

Client PO: Susan Moodie
Project: 200584.003
Custody:

Report Date: 6-Mar-2017
Order Date: 1-Mar-2017

Order #: 1709255

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

Parcel ID	Client ID
1709255-01	PCB1 Grey caulking, composite
1709255-02	PCB2 Expansion joint sealant, composite

Approved By:



Mark Foto, M.Sc.
Lab Supervisor

Certificate of Analysis
Client: Pinchin Ltd. (Kingston)
Client PO: Susan Moodie

Report Date: 06-Mar-2017
Order Date: 1-Mar-2017
Project Description: 200584.003

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PCBs, total	SW846 8082A - GC-ECD	1-Mar-17	3-Mar-17
Solids, %	Gravimetric, calculation	2-Mar-17	2-Mar-17

Certificate of Analysis
Client: Pinchin Ltd. (Kingston)
Client PO: Susan Moodie

Report Date: 06-Mar-2017
 Order Date: 1-Mar-2017
Project Description: 200584.003

Client ID:	PCB1 Grey caulking, composite	PCB2 Expansion joint sealant, composite	-	-
Sample Date:	27-Feb-17	27-Feb-17	-	-
Sample ID:	1709255-01	1709255-02	-	-
MDL/Units	Other	Other	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	100	100	-	-
----------	--------------	-----	-----	---	---

PCBs

PCBs, total	0.05 ug/g dry	<5.00 [1] [2]	<5.00 [1] [2]	-	-
-------------	---------------	---------------	---------------	---	---

Certificate of Analysis
Client: Pinchin Ltd. (Kingston)
Client PO: Susan Moodie

Report Date: 06-Mar-2017
 Order Date: 1-Mar-2017
Project Description: 200584.003

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	0.05	ug/g						
Surrogate: Decachlorobiphenyl	0.0940		ug/g		94.0	60-140			

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO: Susan Moodie

Report Date: 06-Mar-2017
 Order Date: 1-Mar-2017
 Project Description: 200584.003

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	0.05	ug/g dry	ND				40	
Surrogate: Decachlorobiphenyl	0.111		ug/g dry		98.1	60-140			
Physical Characteristics									
% Solids	91.5	0.1	% by Wt.	91.1			0.5	25	

Certificate of Analysis
 Client: Pinchin Ltd. (Kingston)
 Client PO: Susan Moodie

Report Date: 06-Mar-2017
 Order Date: 1-Mar-2017
 Project Description: 200584.003

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	0.440	0.05	ug/g	ND	97.1	60-140			
Surrogate: Decachlorobiphenyl	0.156		ug/g		138	60-140			

Certificate of Analysis
Client: Pinchin Ltd. (Kingston)
Client PO: Susan Moodie

Report Date: 06-Mar-2017
Order Date: 1-Mar-2017
Project Description: 200584.003

Qualifier Notes:

Sample Qualifiers :

- 1 : Elevated detection limits due to the nature of the sample matrix.
- 2 : Surrogates not available due to extract dilution.

Sample Data Revisions

None

Work Order Revisions / Comments:

None

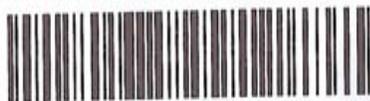
Other Report Notes:

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

Soil results are reported on a dry weight basis when the units are denoted with 'dry'.
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.



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Client Name: Pinchin	Project Reference: 200584.003	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day
Contact Name: Glenn Hendry	Quote #: Susan Moodie	<input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day
Address: 1456 Centennial Drive, Suite 2	PO #	Date Required: _____
Telephone: 613-541-1013	Email Address: ghendry@pinchin.com	

Criteria: O. Reg. 153 (As Amended) Table ___ RSC Filing O. Reg. 558/00 PWOO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analyses

Parcel Order Number: 1709255	Matrix	Air Volume	# of Containers	Sample Taken		PCB	Required Analyses												
				Date	Time														
1	PCB1 Grey caulking, composite	o	1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
2	PCB2 Expansion joint sealant, composite	o	1	Feb 27, 2017	pm	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: cc Sarah Young with Results
Method of Delivery: *Pick up*

Relinquished By (Sign): <i>Glenn Hendry</i>	Received by Driver/Depot: <i>[Signature]</i>	Received at Lab: <i>Sarapa</i>	Verified By: <i>Rachel Subject</i>
Relinquished By (Print): Glenn Hendry	Date/Time: <i>Mar 1, 2017 3:14pm</i>	Date/Time: <i>Mar 2/17 10:45am</i>	Date/Time: <i>Mar 2/17</i>
Date/Time: Mar 1, 2017 3 pm	Temperature: _____ °C	Temperature: <i>6.4</i> °C	pH Verified <input checked="" type="checkbox"/> By: <i>N/A</i> <i>11.04</i>

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.

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).
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

The assessment includes limited demolition of wall and ceiling finishes (drywall or plaster) to view concealed conditions at representative areas as permitted by the current building use. Limited destructive testing of flooring is conducted where possible (under carpets or multiple layers of flooring). Demolition of masonry walls (chases, shafts etc.) and exterior building finishes is conducted. Temporary repairs are completed by Pinchin consisting of sealing small openings with caulking and covering larger opening with plastic access panels.

1.2 Asbestos

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

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.

Pinchin collects samples 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.

Drywall joint compound is sampled at exterior walls, columns or other locations that are unlikely to have been renovated in an attempt to determine the presence of asbestos in the original drywall compound. Delineation of asbestos-containing drywall compound from newer, non-asbestos drywall compound is not conducted.

Pinchin conducts limited demolition of masonry block walls (core holes) to investigate for loose fill insulation. The core holes are temporarily patched with caulking.

Pinchin undertakes sampling of roofing felts at the client's request. A temporary repair is made with asphalt-based mastic and fibreglass mesh. A more permanent repair is required if the roofing or the building is to remain in use for any extended period of time. Pinchin is not responsible or liable for leaks or water damage caused by sampling and or repair.

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

Pinchin submits the bulk samples 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.

In Ontario an ACM is defined as materials containing 0.5% or more asbestos by weight.

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, 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).
- Visibility (whether the material is obscured by other building components).
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

1.3 Lead

Pinchin collects samples of distinctive paint finishes and surface coatings present in more than a limited application, where removal of the paint is possible. Pinchin collects samples by scraping the painted finish to include base and covering applications.

Analysis for lead in paints or surface coatings is performed at an accredited laboratory in accordance with MOE Test Method E3470; Lead by inductively coupled plasma, optical emission spectrometry.

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

Pinchin identifies building materials suspected of containing crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) by knowledge of current and historic applications and visual inspection only. Pinchin does not perform sampling of these materials for laboratory analysis of crystalline silica content.

1.5 Mercury

Building materials/products/equipment (e.g. thermostats, barometers, pressure gauges, light tubes), suspected to contain mercury 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

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

Pinchin samples exterior caulking or sealants for PCBs based on the date of construction or installation. Caulking installed after 1985 is presumed to be free of PCBs and hence not sampled. If sampled, analysis for PCBs is performed in accordance with EPA Test Method SW 846 8082A; Gas Chromatography at an accredited laboratory.

1.7 Visible Mould

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

Master Template: Methodology Document for Hazardous Building Materials Management, HAZ, October 18, 2016

APPENDIX IV-A
Asbestos Summary Table

ACM Data Summary

Client Name: Hastings and Prince Edward District School Board
Site Address: Suzanna Moodie Public School, 376 Avonlough Road, Belleville, ON
Pinchin File: 200584.003
Date: July 10, 2017

Level	Room	Specific Location	ACM Location	ACM Type	Estimated Quantity	Asbestos Content	Friable	Visibility	Access	ACM Condition	Notes	Sample Number
Ground	100	Copier Room	Floor	12" vinyl floor tile	150	3% Chrysotile	No	Yes	A	Good		0004A-C
Ground	101	Office	Floor	12" vinyl floor tile	150	3% Chrysotile	No	Yes	A	Good		0004A-C
Ground	101	Office	Ceiling	24"x 48 ceiling tile	150	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	102	Lunch Room	Floor	12" vinyl floor tile	200	0.5-5% Chrysotile	No	Yes	A	Good		0004A-C
Ground	102	Lunch Room	Ceiling	24"x 48 ceiling tile	200	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	103	Gym	Pipe	Transite Rain Water Leader	80 LF	Presumed	No	Yes	C	Good	PACM	PACM
Ground	104	Office	Ceiling	24"x 48 ceiling tile	200	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	105	Office	Floor	12" vinyl floor tile	200	0.5-5% Chrysotile	No	Yes	A	Good		0004A-C
Ground	105	Office	Ceiling	24"x 48 ceiling tile	200	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	109	Changeroom	Pipe	Transite Rain Water Leader	10 LF	Presumed	No	No	C	Good	Vertical Pipe Chase	PACM
Ground	113	Classroom	Floor	12" vinyl floor tile	500	3% Chrysotile	No	Yes	A	Good		0004A-C
Ground	113	Classroom	Pipe	Transite Rain Water Leader	20LF	Presumed	No	No	C	Good	PACM	PACM
Ground	117	Classroom	Ceiling	24"x 48 ceiling tile	600	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	117	Classroom	Floor	12" vinyl floor tile	600	3% Chrysotile	No	Yes	A	Good		0004A-C
Ground	118	Classroom	Ceiling	24"x 48 ceiling tile	700	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	118	Classroom	Walls	Transite Panels	800	Presumed	No	No	D	Good	PACM	PACM
Ground	119	Classroom	Ceiling	24"x 48 ceiling tile	500	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	120	Storage	Ceiling	24"x 48 ceiling tile	100	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	120	Storage	Floor	12" vinyl floor tile	100	0.5-5% Chrysotile	No	Yes	A	Good		0004A-C
Ground	121	Classroom	Ceiling	24"x 48 ceiling tile	500	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	122	Classroom	Pipe	Transite Rain Water Leader	15LF	Presumed	No	No	C	Good	PACM	PACM

Client Name: Hastings and Prince Edward District School Board
Site Address: Suzanna Moodie Public School, 376 Avonlough Road, Belleville, ON
Pinchin File: 200584.003
Date: July 10, 2017

Level	Room	Specific Location	ACM Location	ACM Type	Estimated Quantity	Asbestos Content	Friable	Visibility	Access	ACM Condition	Notes	Sample Number
Ground	124	Classroom	Pipe	Transite Rain Water Leader	15LF	Presumed	No	No	C	Good	PACM	PACM
Ground	125	Classroom	Pipe	Transite Rain Water Leader	15LF	Presumed	No	No	C	Good	PACM	PACM
Ground	127	Classroom	Ceiling	24"x 48 ceiling tile	400	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	127	Classroom	Pipe	Transite Rain Water Leader	10LF	Presumed	No	No	C	Good	PACM	PACM
Ground	128	Classroom	Ceiling	24"x 48 ceiling tile	400	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	130	Classroom	Ceiling	24"x 48 ceiling tile	600	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	130	Classroom	Pipe	Transite Rain Water Leader	50 LF	Presumed	No	No	C	Good	PACM	PACM
Ground	131	Classroom	Ceiling	24"x 48 ceiling tile	600	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	131	Classroom	Pipe	Transite Rain Water Leader	10 LF	Presumed	No	No	C	Good	PACM	PACM
Ground	133	Classroom	Ceiling	24"x 48 ceiling tile	200	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	134	Storage	Ceiling	24"x 48 ceiling tile	100	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	135	Storage	Ceiling	24"x 48 ceiling tile	100	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	137	Storage	Ceiling	24"x 48 ceiling tile	300	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	138	Storage	Ceiling	24"x 48 ceiling tile	200	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	143	Corridor	Pipe	Transite Rain Water Leader	15LF	Presumed	No	No	C	Good	PACM	PACM
Ground	145	Corridor	Pipe	Transite Rain Water Leader	20 LF	Presumed	No	No	C	Good	At Front Office	PACM
Ground	146	Corridor	Ceiling	24"x 48 ceiling tile	500	3% Amosite	Yes	Yes	C	Good		0006A-C
Ground	146	Corridor	Pipe	Transite Rain Water Leader	10LF	Presumed	No	No	C	Good	Vertical Pipe Chase	PACM
Ground	Exterior	Exterior	Windows/Doors	Brown Caulking	15 Windows/Doors	5% Chrysotile	No	Yes	A	Good		0001A-C
Ground	Exterior	Above 6 Windows and 1 door	Exterior	Transite Panels	40 SF	Presumed	No	Yes	C	Good	PACM	PACM
Ground	Roof	Roof	Flashing	Caulking/Sealant	Unknown	Unknown	Unknown	Yes	C	Good	PACM	PACM

Client Name: Hastings and Prince Edward District School Board
Site Address: Suzanna Moodie Public School, 376 Avonlough Road, Belleville, ON
Pinchin File: 200584.003
Date: July 10, 2017

Level	Room	Specific Location	ACM Location	ACM Type	Estimated Quantity	Asbestos Content	Friable	Visibility	Access	ACM Condition	Notes	Sample Number
Ground	Stage	Stage	Floor	12" vinyl floor tile	600	3% Chrysotile	No	Yes	A	Good		0004A-C
Ground	Stage	Stage	Pipe	Transite Rain Water Leader	10 LF	Presumed	No	Yes	C	Good	PACM	PACM

Notes:

Accessibility Classification:

- A- Areas of the building within reach of all building users.
- B- Frequently entered maintenance areas within reach of maintenance staff, without a ladder.
- C- Areas of the building above 2.4 m where the use of a ladder is required.
- D- Areas of the building behind inaccessible solid ceiling, walls, mechanical equipment, etc.

Visibility:

- Yes - Suspect material is visible without opening hatches or lifting ceiling tiles.
- No - Suspect materials is only visible if access hatches are opened or ceiling tiles are lifted.

ACM - Asbestos containing material.

NON-ACM - Material does not contain asbestos.

PACM - Material is presumed to be asbestos.

Non-asbestos vinyl floor tiles with asbestos-containing mastic are considered asbestos-containing due to contamination.

APPENDIX IV-B

Lead, Silica, Mercury, PCBs and Mould Summary Table

Lead, Silica, Mercury, PCBs and Mould Data Summary

Client Name: Hastings and Prince Edward District School Board
Site Address: Suzanna Moodie Public School, 376 Avonlough Road, Belleville, ON
Pinchin File: 200584.003
Date: July 10, 2017

Level	Room	Hazardous Material	Location	Source	Estimated Quantity	Content, if Applicable	Visibility	Access	Condition	Sample Number
Ground	Throughout Building	Lead	Emergency Lighting	Batteries	N/A	N/A	Yes	C	Good	N/A
Ground	Throughout Building	Silica	Slab Foundation	Poured Concrete	N/A	N/A	Yes	A	Good	N/A
Ground	Throughout Building	Silica	Foundation Walls	Pre-cast Concrete	N/A	N/A	Yes	A	Good	N/A
Ground	Throughout Building	Silica	Walls	Masonry and Mortar	N/A	N/A	Yes	A	Good	N/A
Ground	Throughout Building	Silica	Floor	Terrazzo	N/A	N/A	Yes	A	Good	N/A
Ground	Throughout Building	Mercury	Fluorescent Light Fixtures	Lamps	N/A	N/A	Yes	C	Good	N/A

Notes:

Accessibility Classification:

- A- Areas of the building within reach of all building users.
- B- Frequently entered maintenance areas within reach of maintenance staff, without a ladder.
- C- Areas of the building above 2.4 m where the use of a ladder is required.
- D- Areas of the building behind inaccessible solid ceiling, walls, mechanical equipment, etc.

Visibility:

- Yes - Suspect material is visible without opening hatches or lifting ceiling tiles.
- No - Suspect materials is only visible if access hatches are opened or ceiling tiles are lifted.