

**REPORT  
TO  
THE HALTON DISTRICT SCHOOL BOARD**

**UPDATED SURVEY OF  
ASBESTOS-CONTAINING MATERIALS  
KILBRIDE PUBLIC SCHOOL  
6611 PANTON STREET  
KILBRIDE, ONTARIO**

**Prepared by:**

**DECOMMISSIONING CONSULTING SERVICES**  
121 Granton Drive, Unit 11  
Richmond Hill, Ontario L4B 3N4  
CANADA

Tel: (905) 882-5984  
Fax: (905) 882-8962  
E-Mail: [engineers@dcsltd.ca](mailto:engineers@dcsltd.ca)  
Web Page: [www.dcsltd.ca](http://www.dcsltd.ca)

March 2015

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**DECOMMISSIONING CONSULTING SERVICES**

121 Granton Drive, Unit 11  
Richmond Hill, Ontario L4B 3N4  
Canada

Tel 905 882 5984  
Fax 905 882 8962  
Email [engineers@dcsLtd.ca](mailto:engineers@dcsLtd.ca)  
[www.dcsLtd.ca](http://www.dcsLtd.ca)

702170-019

30 March 2015

Halton District School Board  
J.W. Singleton Education Center  
2050 Guelph Line P.O. Box 2005  
Burlington, Ontario L7R 3Z2

Attention: Mr. Terry DeMedeiros  
Regional Supervisor, Facilities Maintenance.

Re: **Updated Survey of Asbestos-Containing Materials**  
**Kilbride Public School**  
**6611 Panton Street**  
**Kilbride, Ontario**

Dear Sirs:


We are pleased to submit our updated report on the survey of asbestos-containing materials. The report was updated to provide new floor plans to include the new addition to the school.

We trust that this report meets your current requirements. Please call if you have any questions or if you require further assistance.

Yours very truly,

**DECOMMISSIONING CONSULTING SERVICES**

**Jean Daigle**  
Environmental Specialist



**Rein Andre, B.A.**  
Manager, Hazardous Materials Group

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## 1.0 INTRODUCTION

Decommissioning Consulting Services (DCS) was retained by The Halton District School Board (the Board) to prepare an updated survey of the locations of asbestos-containing materials at Kilbride Public School, 6611 Panton Street, Kilbride, Ontario, following asbestos abatement operations performed in 2014 associated with a window replacement project. The original school was reported to have been constructed in 1959 with additions constructed in 1967, 1984 and 2009. A floor plan identifying the different eras of construction is provided in Appendix A.

Asbestos has been widely used in buildings, both in friable applications (materials which can be easily crumbled such as pipe and tank insulation, sprayed-on fireproofing and acoustic and texture coat applications) and in non-friable materials such as floor tile, fire-rated ceiling tile, gaskets, cement board, cement pipe, drywall joint compound and so on. Plaster applications (walls, ceilings, bulkheads, etc.) may also contain asbestos. The use of asbestos in friable applications was curtailed in Ontario around the mid-1970s. Most buildings constructed prior to about the mid-1970s contain some form of friable asbestos-containing material. The use of asbestos in certain non-friable products continued beyond the 1970s. A sample list of suspect asbestos-containing building materials is provided in Appendix C.

Control of exposure to asbestos is governed in Ontario by Regulation 278/05 - *Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations*. Disposal of asbestos waste (friable and non-friable materials) is governed by Ontario Regulation 278/05 and by Ontario Regulation 347, Waste Management - General.

The major requirements of O.Reg. 278/05 with respect to asbestos surveys and assessments are as follows:

### **Survey Records:**

- non-friable asbestos-containing materials (e.g., vinyl floor tiles, ceiling tiles, drywall joint compound, plaster, etc.) are to be included in asbestos survey records effective 1 November 2007;
- asbestos survey records are to be updated:
  - (a) at least once in every 12-month period;

- (b) whenever the owner becomes aware of new information; and
- asbestos-containing materials are to be inspected at reasonable intervals in order to determine their condition.

**Bulk Samples:**

- the minimum number of bulk samples to be collected from an area of homogeneous material is set out in Table 1 of the regulation (Table 1 is reproduced below).
- if analysis establishes that a bulk material sample contains 0.5 per cent or more asbestos by dry weight:
  - (a) it is not necessary to analyze other bulk material samples taken from the same area of homogeneous material; and
  - (b) the entire area of homogeneous material from which the bulk materials sample was taken is deemed to be asbestos-containing material.

**TABLE 1.1**  
**BULK MATERIAL SAMPLES**  
**(FROM O.REG. 278/05)**

ITEM	TYPE OF MATERIAL	SIZE OF AREA OF HOMOGENEOUS MATERIAL	MINIMUM NUMBER OF BULK MATERIAL SAMPLES TO BE COLLECTED
1.	Surfacing material, including without limitation material that is applied to surfaces by spraying, by trowelling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 square metres	3
		90 or more square metres, but less than 450 square metres	5
		450 or more square metres	7
2.	Thermal insulation, except as described in Item 3	Any size	3
3.	Thermal insulation patch	Less than 2 linear metres or 0.5 square metres	1
4.	Other material	Any size	3

In practice, application of the Table 1 requirements means that the specified minimum number of negative (i.e., less than 0.5% asbestos) bulk sample analysis results will be required in order to classify a material as non-asbestos.

Section 10 of O.Reg. 278/05 – Owner’s Responsibility before requesting tender or arranging work – requires that an owner shall have an investigation carried out in order to determine if materials, that are likely to be handled, dealt with, disturbed or removed during the alteration of a building, are asbestos-containing and, if so, whether the asbestos-containing material is friable or non-friable and to identify the type of asbestos in the material. Section 10 also requires that the owner shall have a report prepared detailing the investigation findings which is to be provided to any prospective constructor.

### Corrective Actions

If asbestos-containing fireproofing or acoustical or thermal insulation has fallen and is being disturbed so that exposure to the material is likely to occur, O.Reg. 278/05 requires that the owner shall cause the fallen material to be cleaned up and, if it is readily apparent that material will continue to fall because of the deterioration, the owner shall repair, seal, remove or permanently enclose the material.

O.Reg. 278/05 classifies the asbestos work operations into three types (Type 1, 2 and 3) and specifies procedures to be followed in conducting asbestos abatement work.

## 2.0 METHODOLOGY

### 2.1 SURVEY

Site inspections were carried out by DCS staff on 26 February 2014 to determine the locations of building construction materials suspected of containing asbestos. DCS reviewed information outlined in a previous report prepared by DCS for the Board entitled *Survey and Assessment of Asbestos-Containing Materials, Kilbride Public School, Kilbride, Ontario* dated March 2000, to prepare this updated report. All readily accessible areas, including spaces above accessible suspended ceilings, were inspected throughout the facility. The 2009 addition was not included in the survey.

Representative bulk samples of material from different ages of construction were collected by DCS staff during the course of the site inspection and were forwarded to EMSL Canada Inc. for analysis of asbestos content. Determination of the locations of asbestos-containing materials were made based on results of bulk sample analysis, and on visual observations and physical characteristics of the applications at each inspection location.

### 2.2 ASSESSMENT

During the survey, the condition of all friable materials is assessed. Assessment involves the evaluation of a number of factors, including:

- asbestos content;
- physical damage;
- water damage;
- accessibility;
- adjacent activity, vibrations;
- air distribution system (air plenum); and
- friability.

Recommendations for appropriate corrective measures are based on findings of the assessment and consist primarily of either repair or removal (and replacement) of the asbestos-containing materials. No corrective actions were required at the time of the site inspections.

### 3.0 SURVEY RESULTS

On the basis of the survey work carried out, we report that friable asbestos-containing materials are present in Kilbride Public School in the following accessible applications:

- Thermal insulation applied to pipe fittings above and below ceilings in several locations in the 1959 and 1967 eras of construction and
- Thermal insulation (“anti-sweat”) applied to pipe straights above and below ceilings in several locations the 1959 era of construction.

Thermal insulation applied to pipe fittings is a gray-colored cementitious-like material. Thermal insulation applied to pipe straights is a thermal insulation referred to as “anti-sweat” insulation. “Anti-sweat” insulation is a layered paper-like material, typically brown in colour, and may contain black tar-paper-like layers.

Glass fibre insulation is readily visually distinguishable (typically yellow in colour) from asbestos-containing insulation materials and was, therefore, not tested for asbestos content.

All thermal insulation, with the exception of glass fibre material, should be assumed to contain asbestos unless a bulk sample analysis indicates otherwise.

Visual inspections and laboratory analyses of representative bulk samples of materials confirm that non-friable asbestos-containing materials are present in the following accessible applications:

- 9” x 9” vinyl floor tiles in Rooms 102, 103, 108 and 109;
- 12” x 12” vinyl floor tiles in Room 124;
- Texture plaster on the exterior soffit in Entrance 141A;
- Cement board on the wall above the windows in Room 115; and
- Cement board on exterior soffits and fascia on the exterior of the school throughout the 1959 era of construction.



Caulking was only tested on window frames in Rooms 110, 111 and 112. All asbestos-containing caulking applied to window frames in Rooms 110, 111 and 112 was removed in 2014. All other caulking present throughout the school should be assumed to contain asbestos or confirmatory testing of any such materials could be undertaken as the need arises (i.e., at the time of renovations, modifications or demolition).

A room-by-room summary of the locations and conditions of asbestos-containing materials identified is presented in Table 3.2. The locations of accessible asbestos-containing materials are identified on the floor plan provided in Appendix A. Various eras of construction are outlined on a floor plan also provided in Appendix A.

A summary of the results of laboratory analysis of bulk samples is presented in Table 3.1. The laboratory reports are provided in Appendix B.

**TABLE 3.1**  
**SUMMARY OF LABORATORY ANALYSES OF BULK SAMPLES**  
**KILBRIDE PUBLIC SCHOOL**

SAMPLE N <sup>o</sup>	LOCATION	DESCRIPTION	ASBESTOS CONTENT
1-A	Room 116	Black paper “anti-sweat” thermal insulation on pipe straights	<b>67.3% Chrysotile</b>
2-A	Room 116D	Light-weight concrete (“siporex”) roof decking	None Detected (TEM)
2-B	Corridor 144	Light-weight concrete (“siporex”) roof decking	None Detected
2-C	Room 104	Light-weight concrete (“siporex”) roof decking	None Detected
3-A	Room 115	Cement board on wall above windows	<b>4.1% Chrysotile</b>
4	Corridor 141	Thermal insulation on pipe fittings (1967)	<b>55% Chrysotile</b>
5-A	Room 110	Caulking on interior window frames – white coloured	<b>1.5% Chrysotile<sup>(3)</sup></b>
6-A	Room 110	Caulking on exterior window frames – white coloured	<b>1.2% Chrysotile<sup>(3)</sup></b>
7-A	Room 105	Vinyl baseboard – brown coloured	None Detected (TEM)
7-B	Room 128	Vinyl baseboard – brown coloured	None Detected
7-C	Room 129	Vinyl baseboard – brown coloured	None Detected
8-A	Room 116	12” x 12” vinyl floor tile – light beige coloured with beige flecks	None Detected (TEM)
8-B	Room 115	12” x 12” vinyl floor tile – light beige coloured with beige flecks	None Detected
8-C	Room 127B	12” x 12” vinyl floor tile – light beige coloured with beige flecks	None Detected

SAMPLE N <sup>o</sup>	LOCATION	DESCRIPTION	ASBESTOS CONTENT
9-A	Room 117	12" x 12" vinyl floor tile – dark beige coloured with dark beige flecks	None Detected (TEM)
9-B	Room 107	12" x 12" vinyl floor tile – dark beige coloured with dark beige flecks	None Detected
9-C	Room 112	12" x 12" vinyl floor tile – dark beige coloured with dark beige flecks	None Detected
10-A	Room 102	9" x 9" vinyl floor tile – green coloured with wide directional flecks	<b>3.5% Chrysotile</b>
11-A	Room 104	12" x 12" vinyl floor tile – light green coloured	<0.29% Chrysotile (TEM) <sup>(1)</sup>
11-B	Room 105A	12" x 12" vinyl floor tile – light green coloured	None Detected
11-C	Room 105A	12" x 12" vinyl floor tile – light green coloured	None Detected
12-A	Room 121	12" x 12" vinyl floor tile – white/beige coloured with beige flecks	None Detected (TEM)
12-B	Room 121	12" x 12" vinyl floor tile – white/beige coloured with beige flecks	None Detected
12-C	Room 121	12" x 12" vinyl floor tile – white/beige coloured with beige flecks	None Detected
13-A	Room 125	12" x 12" vinyl floor tile – cream/wheat coloured with purple fleck	<0.25% Chrysotile (TEM) <sup>(1)</sup>
13-B	Room 125	12" x 12" vinyl floor tile – cream/wheat coloured with purple fleck	None Detected
13-C	Room 133	12" x 12" vinyl floor tile – cream/wheat coloured with purple fleck	None Detected
14-A	Room 124	12" x 12" vinyl floor tile – white/green foam coloured with directional flecks	<0.25% Chrysotile (PLM) <sup>(1)</sup> <b>8.7% Chrysotile (TEM)</b>
15-A	Room 127B	Textured plaster on horizontal beam enclosure	None Detected
15-B	Room 127B	Textured plaster on horizontal beam enclosure	None Detected
15-C	Room 127B	Textured plaster on horizontal beam enclosure	None Detected
16-A	Exterior Entrance 141A	Textured plaster on exterior overhang	<b>1.3% Chrysotile</b>
17-A	Room 116B	Drywall joint compound on drywall wall (1959)	None Detected
17-B	Corridor 144	Drywall joint compound on drywall wall above lockers (1959)	None Detected
17-C	Room 121	Drywall joint compound on drywall wall above door (1959)	None Detected
18-A	Corridor 145	Drywall joint compound on drywall wall above lockers (1984)	None Detected
18-B	Corridor 140A	Drywall joint compound on drywall bulkhead (1984)	None Detected
18-C	Room 135	Drywall joint compound on drywall ceiling (1984)	None Detected
19-A	Room 112	Drywall joint compound on drywall bulkhead (1967)	None Detected
19-B	Room 112	Drywall joint compound on drywall bulkhead (1967)	None Detected
19-C	Room 112	Drywall joint compound on drywall bulkhead (1967)	None Detected
20-A	Room 110	Vinyl baseboard – black coloured	None Detected (TEM)

SAMPLE N <sup>o</sup>	LOCATION	DESCRIPTION	ASBESTOS CONTENT
20-B	Room 111	Vinyl baseboard – black coloured	None Detected
20-C	Room 112	Vinyl baseboard – black coloured	None Detected
21-A	Room 116	2' x 4' ceiling tile – fissure on the 4'	None Detected
21-B	Room 105	2' x 4' ceiling tile – fissure on the 4'	None Detected
21-C	Room 105	2' x 4' ceiling tile – fissure on the 4'	None Detected
22-A	Room 116	2' x 4' ceiling tile – fissure on the 2'	None Detected
22-B	Room 126	2' x 4' ceiling tile – fissure on the 2'	None Detected
22-C	Room 127A	2' x 4' ceiling tile – fissure on the 2'	None Detected
23-A	Room 116	2' x 4' ceiling tile – “L” fissure and dot	None Detected
23-B	Room 116	2' x 4' ceiling tile – “L” fissure and dot	None Detected
23-C	Room 116	2' x 4' ceiling tile – “L” fissure and dot	None Detected
24-A	Room 104	2' x 4' ceiling tile – random fissure with a brown back “2002” manufactures date code	None Detected
24-B	Corridor 145	2' x 4' ceiling tile – random fissure with a brown back “2002” manufactures date code	None Detected
24-C	Corridor 145	2' x 4' ceiling tile – random fissure with a brown back “2002” manufactures date code	None Detected
1	Room 127	Pipe fitting insulation	<b>33% Chrysotile<sup>(2)</sup></b>
4	Room 120	Hot water heating pipe fitting insulation	<b>40% Chrysotile<sup>(2)</sup></b>
5	Room 120	Domestic water pipe fitting insulation	<b>12% Chrysotile<sup>(2)</sup></b>

**NOTES:**

- (1) “Asbestos-containing material” is defined as material that contains 0.5% or more asbestos by dry weight.
  - (2) Bulk sample results derived from a DCS report prepared for the Halton District School Board entitled *Survey and Assessment of Asbestos-Containing Materials, Kilbride Public School, Kilbride, Ontario* dated March 2000.
  - (3) Asbestos caulking was removed from this area in 2014.
- < = Less than.

Chrysotile = Chrysotile asbestos.

Bulk samples were analyzed by Polarized Light Microscopy (PLM) analysis, except where “TEM” is noted, in which case Transmission Electron Microscopy analysis was also performed.

**TABLE 3.2**

**SUMMARY OF ASBESTOS-CONTAINING MATERIALS  
KILBRIDE PUBLIC SCHOOL**

LEVEL	ROOM	MATERIAL	ASBESTOS CONTENT	LOCATION WITHIN SPACE	ESTIMATED QUANTITY	FRIABLE OR NON-FRIABLE	CONDITION	COMMENTS
1	100							NACMO
1	101							NACMO
1	102	9" Vinyl floor tile	3.5% Chrysotile	Floor	50-100 sq m	Non-Friable	G	
1	103	9" Vinyl floor tile	3.5% Chrysotile	Floor	50-100 sq m	Non-Friable	G	
		Pipe fitting insulation	40% Chrysotile	Inside radiator cabinet	<5 pipe fittings	Friable	G	
1	104							NACMO
1	105							NACMO
1	105A							NACMO
1	106							NACMO
1	107							NACMO
1	108	9" Vinyl floor tile	3.5% Chrysotile	Floor	50-100 sq m	Non-Friable	G	
1	109	9" Vinyl floor tile	3.5% Chrysotile	Floor	50-100 sq m	Non-Friable	G	
1	110							NACMO
1	111							NACMO
1	112							NACMO
1	113							NACMO
1	113A							NACMO
1	114							NACMO
1	115	Cement board	4.1% Chrysotile	Wall above windows	<10 sq m	Non-Friable	G	
		Pipe fitting insulation	40% Chrysotile	Above plywood ceiling in closet	5-10 pipe fittings	Friable	G	

LEVEL	ROOM	MATERIAL	ASBESTOS CONTENT	LOCATION WITHIN SPACE	ESTIMATED QUANTITY	FRIABLE OR NON-FRIABLE	CONDITION	COMMENTS
1	116	Pipe fitting insulation	40% Chrysotile	Below ceiling and inside pipe enclosure in northeast corner	<5 pipe fittings	Friable	G	Limited view inside pipe enclosure
		Pipe straight insulation (anti-sweat)	67.3% chrysotile	Below ceiling and inside pipe enclosure in northeast corner	3-15 m pipe straights	Friable	G	
1	116A							NACMO
1	116B							NACMO
1	116C	Pipe fitting insulation	40% Chrysotile	Above ceiling	<5 pipe fittings	Friable	G	
1	116D							NACMO
1	117							NACMO
1	118							NACMO
1	119	Pipe fitting insulation	40% Chrysotile	Below ceiling	<5 pipe fittings	Friable	G	
1	120	Pipe fitting insulation	40% Chrysotile	Below ceiling	>20 pipe fittings	Friable	G	
		Pipe straight insulation (anti-sweat)	67.3% chrysotile	Below ceiling	3-15 m pipe straights	Friable	G	
1	120A							NACMO
1	121	Pipe fitting insulation	40% Chrysotile	Below ceiling	5-10 pipe fittings	Friable	G	
		Pipe straight insulation (anti-sweat)	67.3% chrysotile	Below ceiling	3-15 m pipe straights	Friable	G	
1	122	Pipe fitting insulation	40% Chrysotile	Below ceiling	5-10 pipe fittings	Friable	G	
1	123	Pipe fitting insulation	40% Chrysotile	Below ceiling	10-20 pipe fittings	Friable	G	
1	124	12" Vinyl floor tiles	8.7% Chrysotile	Floor	50-100 sq m	Non-Friable	G	
1	125							NACMO
1	125A							NACMO
1	126							NACMO
1	126A	Pipe fitting insulation	55% Chrysotile	Above ceiling	5-10 pipe fittings	Friable	G	
1	127	Pipe fitting insulation	55% Chrysotile	Above ceiling	5-10 pipe fittings	Friable	G	
1	127A	Pipe fitting insulation	55% Chrysotile	Above ceiling	5-10 pipe fittings	Friable	G	
1	127B							NACMO

LEVEL	ROOM	MATERIAL	ASBESTOS CONTENT	LOCATION WITHIN SPACE	ESTIMATED QUANTITY	FRIABLE OR NON-FRIABLE	CONDITION	COMMENTS
1	128							NACMO
1	129							NACMO
1	130							NACMO
1	131							NACMO
1	132	Vinyl sheet flooring not sampled						Vinyl sheet flooring was reportedly installed within the last 10 years
1	133							NACMO
1	133A							NACMO
1	134							NACMO
1	134A							NACMO
1	135							NACMO
1	136							NACMO
1	136A							NACMO
1	137							NACMO
1	137A							NACMO
1	138							NACMO
1	138A							NACMO
1	139							NACMO
1	140							NACMO
1	140A							NACMO
1	140B							NACMO
1	140C							NACMO
1	140D							NACMO
1	141	Pipe fitting insulation	55% Chrysotile	Above ceiling	10-20 pipe fittings	Friable	G	
1	141A	Textured plaster	1.3% Chrysotile	Exterior soffit	<10 sq m	Non-Friable	G	

LEVEL	ROOM	MATERIAL	ASBESTOS CONTENT	LOCATION WITHIN SPACE	ESTIMATED QUANTITY	FRIABLE OR NON-FRIABLE	CONDITION	COMMENTS
1	142	Pipe fitting insulation	55% Chrysotile	Above ceiling	10-20 pipe fittings	Friable	G	
1	143	Pipe fitting insulation	40% Chrysotile	Above ceiling	>20 pipe fittings	Friable	G	
		Pipe straight insulation (anti-sweat)	67.3% chrysotile	Above ceiling	15-30 m pipe straights	Friable	G	
1	143A	Pipe fitting insulation	40% Chrysotile	Above ceiling	5-10 pipe fittings	Friable	G	
		Pipe straight insulation (anti-sweat)	67.3% chrysotile	Above ceiling	3-15 m pipe straights	Friable	G	
1	143B	Cement board	4.1% Chrysotile	Exterior soffit and fascia	10-50 sq m	Non-Friable	G	
1	143C	Pipe fitting insulation	55% Chrysotile	Above ceiling	5-10 pipe fittings	Friable	G	
1	144	Pipe fitting insulation	40% Chrysotile	Above ceiling	>20 pipe fittings	Friable	G	
		Pipe straight insulation (anti-sweat)	67.3% chrysotile	Above ceiling	>30 m pipe straights	Friable	G	
1	145							NACMO
1	145A							NACMO
1	146							NACMO
1	Exterior	Cement board	4.1% Chrysotile	Exterior soffit and fascia	>100 sq m	Non-Friable	G	
2	147							NACMO

**NOTES:**

**Condition:** G = Good.  
F = Fair.  
P = Poor.

**NACMO:** No Asbestos-Containing Materials Observed.

**NOTE!:** Asbestos may also be present in locations that are presently inaccessible (e.g., in pipe chases, behind walls, above suspended gypsum board or plaster ceilings, and below carpets).

## 4.0 DISCUSSION

The owner of a building is required to provide information on the locations of asbestos-containing material to:

- i) any person who is an “occupier”<sup>(1)</sup> of the building. The occupier is then responsible for providing the information to their own employees;
- ii) any prospective constructors, contractors and subcontractors prior to requesting tenders or arranging for the demolition, alteration or repair of all or part of a building. The information to be provided shall identify whether any material that is likely to be handled, dealt with, disturbed or removed is asbestos-containing material; describe the condition of the material; state whether the material is friable or non-friable; and contain drawings, plans and specifications, as appropriate, to show the locations of material;
- iii) any employer with whom the owner arranges or contracts for work not described in ii) above that may involve asbestos-containing material or is to be carried out in close proximity to and may disturb the material;
- iv) owner’s staff, if they perform work that involves asbestos-containing material or work that is to be carried out in close proximity to and may disturb the material.

If material suspected of containing asbestos which is not identified in the asbestos survey records is discovered during the course of any work in a facility, then either the constructor or the owner is required to immediately notify (orally and in writing):

- a) an inspector at the office of the Ministry of Labour nearest the workplace;
- b) the owner;
- c) the contractor; and

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<sup>(1)</sup> An “occupier” is defined as:

- (a) a person who is in physical possession of premises, or
- (b) a person who has responsibility for and control over the condition of premises or the activities carried on there, or control over persons allowed to enter the premises.



- d) the joint health and safety committee or the health and safety representative.

The owner is also responsible for providing tenderers with a list of designated substances (including asbestos) at the tendering stage of a project.

This report was prepared as part of the asbestos management program, not for the purposes of construction or renovation projects. Additional investigation and testing may be required prior to construction or renovation projects.

Bulk sampling of building materials was carried out in accordance with the minimum sampling requirements specified in Table 1 of O.Reg. 278/05. We recommend that additional samples of certain types of material which may have been mixed on site at the time of construction (plaster, drywall joint compound, ceiling texture coat, etc.) be tested for asbestos content prior to the disturbance of these materials at the time of renovations, alterations or demolition work.

Asbestos may also be present in materials which were not sampled during the course of the asbestos survey carried out by DCS, including, but not limited to, roofing materials, fire doors, mastics or cementitious levelling compound under vinyl flooring, grout, mortar in masonry applications, caulking, gaskets in piping, internal components of boilers, paints and coatings, components of electrical equipment, (e.g. – electrical wiring insulation, non-metallic sheathed cable, electrical panel partitions, arc chutes, high-grade electrical paper, etc.), concrete, etc., and/or in locations that are presently inaccessible (e.g., in pipe chases, behind walls, above suspended gypsum board or plaster ceilings, and below carpets). Asbestos may also be present in the form of vermiculite insulation in cavities in concrete or cement block walls (used as in-fill insulation). Confirmatory testing of any such materials could be undertaken as the need arises (i.e., at the time of renovations, modifications or demolition) or the materials can be assumed to contain asbestos based on findings in adjacent areas.

As noted above, if any materials which may contain asbestos and which were not tested during the course of the asbestos survey are discovered during any construction activities, the work shall not proceed until such time as the required notifications have been made and an appropriate course of action is determined.

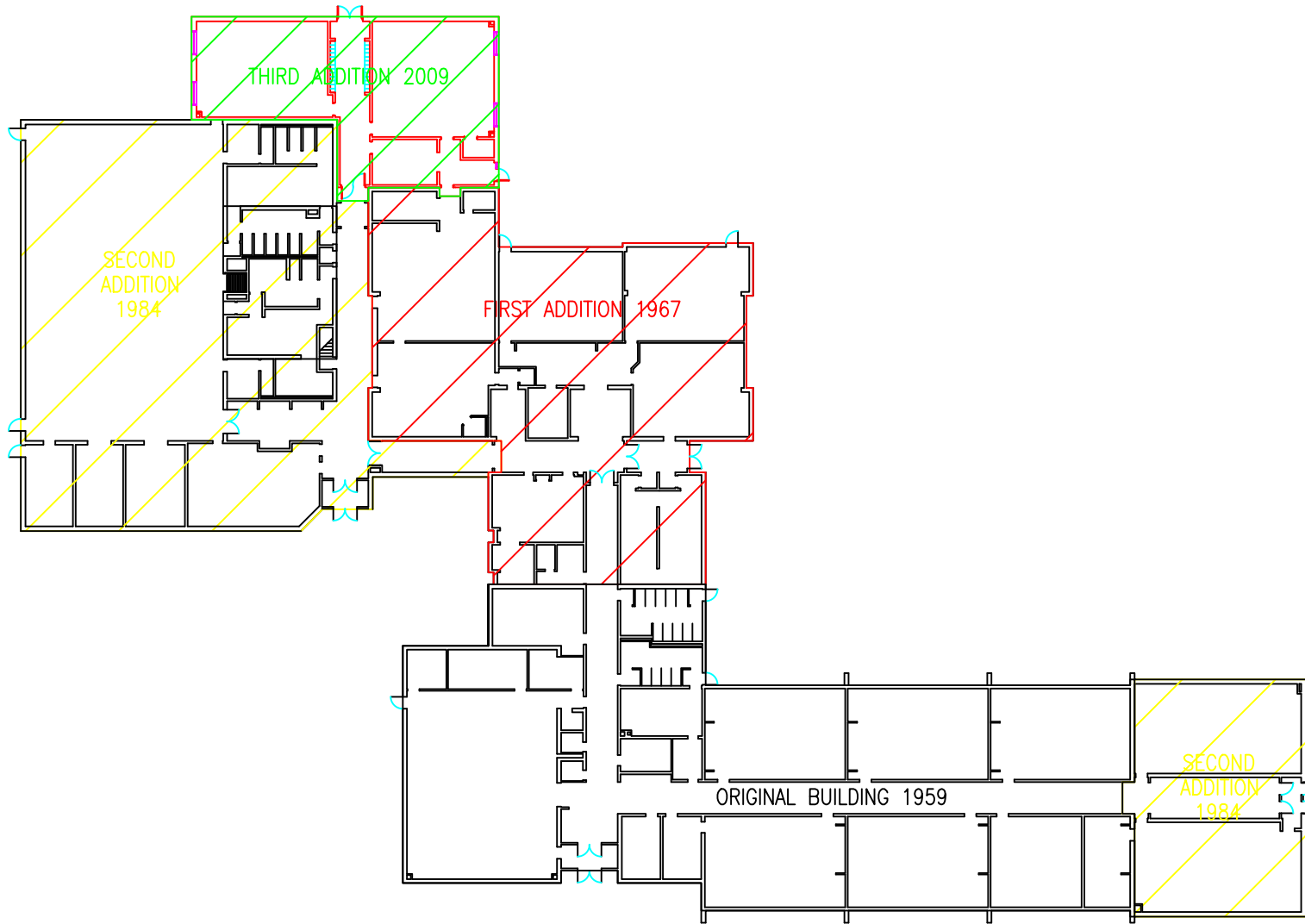
## **5.0 USE AND LIMITATIONS OF THIS REPORT**

This report, prepared for the Halton District School Board, does not provide certification or warranty, expressed or implied, that the investigation conducted by DCS identified all asbestos-containing materials present in the subject facilities. The work undertaken by DCS was directed to provide information on the presence of asbestos-containing building materials based on visual inspection of readily accessible areas of the building and on the results of laboratory analysis of bulk samples of material gathered in the course of the visual inspection. The survey did not include for identification of asbestos in process materials, equipment (including electrical equipment and wiring), furniture (e.g., chairs, table tops, chalkboards, etc.), nor material outside of the building (e.g. asphaltic pavement).

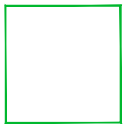
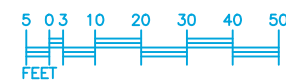
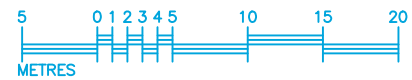
This report was prepared by DCS for the Halton District School Board. Any use which a third party makes of the report, or reliance on, or decisions to be based on it, is the responsibility of such third parties.

# **APPENDIX A**

## **FLOOR PLANS**



Scale



NO.	DATE	DESCRIPTION



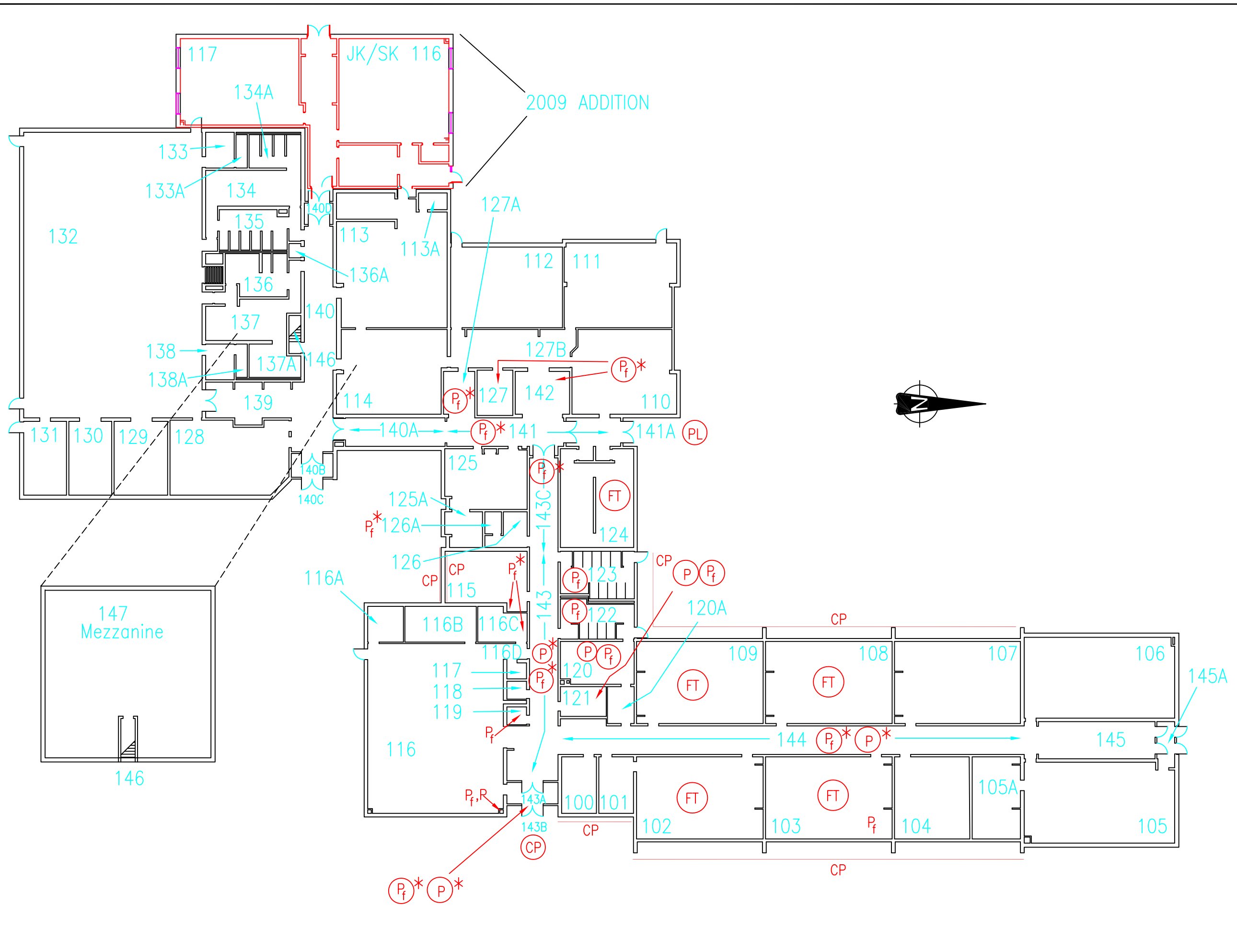
**Kilbride Public School**

6411 PHANTOM STREET  
KILBRIDE, DUBLIN 15

DATE	11 JULY 2011
PROJECT START	30 SEP 2009
OWNER	JK-B
SCALE (TO FIT)	1"=50'-0"
PROJECT	RSZ
DATE	21 OCT 2011
YEAR BUILT	1959
AREA NO. PL.	34346 (2101m <sup>2</sup> )
AREA FILE NAME	KILPS

PROJECT NAME	FIRST FLOOR PLAN
AREA	B   2

May 22, 2015 - 2:31pm - USER: lzho  
 Z:\02000 Series\02170-019\02000-000 Kilbride PS\_update.dwg



- LEGEND:**
- 1 FUNCTIONAL SPACE
  - THROUGHOUT FUNCTIONAL SPACE
  - \* ABOVE CEILING ASSEMBLY
  - P ASBESTOS ON PIPE STRAIGHTS (FRIABLE)
  - P<sub>f</sub> ASBESTOS ON PIPE FITTINGS (FRIABLE)
  - FT ASBESTOS FLOOR TILES (NON-FRIABLE)
  - PL ASBESTOS PLASTER (NON-FRIABLE)
  - CP ASBESTOS CEMENT PRODUCT (NON-FRIABLE)

**NOTES:**

1. INTERIORS OF ALL FIRE DOORS ARE ASSUMED TO CONTAIN ASBESTOS.

**REVISIONS:**

No.	Date:	By:	Revisions

**REFERENCE:**

1.

**DCS** AN ARCADIS COMPANY  
 DECOMMISSIONING CONSULTING SERVICES  
 HALTON DISTRICT SCHOOL BOARD  
**UPDATED SURVEY OF ASBESTOS-CONTAINING MATERIALS**  
 LOCATION OF ASBESTOS CONTAINING MATERIALS  
 KILBRIDE PUBLIC SCHOOL  
 6611 Panton Street, Kilbride, Ontario  
**FIRST FLOOR & MEZZANINE FLOOR**

Drawn By: J.B.S.	Approved By: R.A.	Project No: 702170-019
Date: MARCH 2015	Scale: N.T.S	Drawing No: 702170-019-1

## **APPENDIX B**

### **LABORATORY REPORTS**



# EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8  
 Phone/Fax: 289-997-4602 / (289) 997-4607  
<http://www.EMSL.com> / [torontolab@emsl.com](mailto:torontolab@emsl.com)

EMSL Canada Order 551401614  
 Customer ID: 55DCSL97  
 Customer PO: 702064  
 Project ID:

**Attn:** Jean Daigle  
 Decommissioning Consulting Services Ltd.  
 121 Granton Drive  
 Unit 11  
 Richmond Hill, ON L4B 3N4

**Phone:** (905) 882-5984  
**Fax:** (905) 882-8962  
**Collected:**  
**Received:** 3/11/2014  
**Analyzed:** 3/17/2014

**Proj:** KILBRIDE/702064

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 1-A **Lab Sample ID:** 551401614-0001

**Sample Description:** Room 116/black paper anti sweat thermal insulation on pipe straights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Black	0.0%	32.7%	67.3% Chrysotile	
TEM Grav. Reduction	3/14/2014		Positive Stop (Not Analyzed)			

**Client Sample ID:** 1-B **Lab Sample ID:** 551401614-0002

**Sample Description:** Corridor 144/black paper anti sweat thermal insulation on pipe straights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014		Stop Positive (Not Analyzed)			

**Client Sample ID:** 1-C **Lab Sample ID:** 551401614-0003

**Sample Description:** Corridor 143/black paper anti sweat thermal insulation on pipe straights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014		Stop Positive (Not Analyzed)			

**Client Sample ID:** 2-A **Lab Sample ID:** 551401614-0004

**Sample Description:** Room 16D/light weight concrete (siporex) roof decking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Gray	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	Gray	0.0%	100%	None Detected	

**Client Sample ID:** 2-B **Lab Sample ID:** 551401614-0005

**Sample Description:** Corridor 144/light weight concrete (siporex) roof decking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray	0%	100%	None Detected	

**Client Sample ID:** 2-C **Lab Sample ID:** 551401614-0006

**Sample Description:** Room 104/light weight concrete (siporex) roof decking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray	0%	100%	None Detected	



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EMSL Canada Order 551401614  
 Customer ID: 55DCSL97  
 Customer PO: 702064  
 Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 3-A **Lab Sample ID:** 551401614-0007  
**Sample Description:** Room 115/cement board on wall above windows

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Gray /White	0.0%	95.9%	4.1% Chrysotile	
TEM Grav. Reduction	3/14/2014		Positive Stop (Not Analyzed)			

**Client Sample ID:** 3-B **Lab Sample ID:** 551401614-0008  
**Sample Description:** Exterior entrance 143B/cement fascia board on exterior

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014		Stop Positive (Not Analyzed)			

**Client Sample ID:** 3-C **Lab Sample ID:** 551401614-0009  
**Sample Description:** Exterior entrance 143B/cement fascia board on exterior

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014		Stop Positive (Not Analyzed)			

**Client Sample ID:** 4 **Lab Sample ID:** 551401614-0010  
**Sample Description:** Corridor 141/thermal insulation on pipe fittings (1967)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	10%	35%	55% Chrysotile	

**Client Sample ID:** 5-A **Lab Sample ID:** 551401614-0011  
**Sample Description:** Room 110/caulking on interior window frames white coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
400 PLM PtCt Grav. Red.	3/15/2014	Gray	0.0%	98.5%	1.5% Chrysotile	
TEM Grav. Reduction	3/14/2014		Positive Stop (Not Analyzed)			

**Client Sample ID:** 5-B **Lab Sample ID:** 551401614-0012  
**Sample Description:** Room 111/caulking on interior window frames white coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014		Stop Positive (Not Analyzed)			

**Client Sample ID:** 5-C **Lab Sample ID:** 551401614-0013  
**Sample Description:** Room 112/caulking on interior window frames white coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014		Stop Positive (Not Analyzed)			

**Client Sample ID:** 6-A **Lab Sample ID:** 551401614-0014  
**Sample Description:** Room 110/caulking on exterior window frames white coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	White	0.0%	98.8%	1.2% Chrysotile	
TEM Grav. Reduction	3/14/2014		Positive Stop (Not Analyzed)			





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EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 6-B **Lab Sample ID:** 551401614-0015  
**Sample Description:** Room 111/caulking on exterior window frames white coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014					Stop Positive (Not Analyzed)

**Client Sample ID:** 6-C **Lab Sample ID:** 551401614-0016  
**Sample Description:** Room 112/caulking on exterior window frames white coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014					Stop Positive (Not Analyzed)

**Client Sample ID:** 7-A **Lab Sample ID:** 551401614-0017  
**Sample Description:** Room 105/vinyl baseboard brown coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Brown	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	Brown	0.0%	100%	None Detected	

**Client Sample ID:** 7-B **Lab Sample ID:** 551401614-0018  
**Sample Description:** Room 128/vinyl baseboard brown coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown	0%	100%	None Detected	

**Client Sample ID:** 7-C **Lab Sample ID:** 551401614-0019  
**Sample Description:** Room 29/vinyl baseboard brown coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown	0%	100%	None Detected	

**Client Sample ID:** 8-A **Lab Sample ID:** 551401614-0020  
**Sample Description:** Room 116/12"x12" VFT light beige coloured w/beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	White	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 8-B **Lab Sample ID:** 551401614-0021  
**Sample Description:** Room 116/12"x12" VFT light beige coloured w/beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown/Tan	0%	100%	None Detected	

**Client Sample ID:** 8-C **Lab Sample ID:** 551401614-0022  
**Sample Description:** Room 116/12"x12" VFT light beige coloured w/beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown/Tan	0%	100%	None Detected	



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EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 9-A **Lab Sample ID:** 551401614-0023

**Sample Description:** Room 117/12"x12" VFT dark beige coloured w/dark beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	White	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 9-B **Lab Sample ID:** 551401614-0024

**Sample Description:** Room 7/12"x12" VFT dark beige coloured w/dark beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown/Tan	0%	100%	None Detected	

**Client Sample ID:** 9-C **Lab Sample ID:** 551401614-0025

**Sample Description:** Room 112/12"x12" VFT dark beige coloured w/dark beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown/Tan	0%	100%	None Detected	

**Client Sample ID:** 10-A **Lab Sample ID:** 551401614-0026

**Sample Description:** Room 102/9"x9" VFT green coloured w/wire directional flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Green	0.0%	96.5%	3.5% Chrysotile	
TEM Grav. Reduction	3/14/2014				Positive Stop (Not Analyzed)	

**Client Sample ID:** 10-B **Lab Sample ID:** 551401614-0027

**Sample Description:** Room 103/9"x9" VFT green coloured w/wire directional flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014				Stop Positive (Not Analyzed)	

**Client Sample ID:** 10-C **Lab Sample ID:** 551401614-0028

**Sample Description:** Room 107/9"x9" VFT green coloured w/wire directional flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/14/2014				Stop Positive (Not Analyzed)	

**Client Sample ID:** 11-A **Lab Sample ID:** 551401614-0029

**Sample Description:** Room 104/12"x12" VFT light green coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	White	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	White	0.0%	100%	<0.29% Chrysotile	

**Client Sample ID:** 11-B **Lab Sample ID:** 551401614-0030

**Sample Description:** Room 105A/12"x12" VFT light green coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Green	0%	100%	None Detected	



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EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 11-C **Lab Sample ID:** 551401614-0031

**Sample Description:** Room 105A/12"x12" VFT light green coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Green	0%	100%	None Detected	

**Client Sample ID:** 12-A **Lab Sample ID:** 551401614-0032

**Sample Description:** Room 121/12"x12" VFT white/beige coloured w/beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	White	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 12-B **Lab Sample ID:** 551401614-0033

**Sample Description:** Room 121/12"x12" VFT white/beige coloured w/beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray	0%	100%	None Detected	

**Client Sample ID:** 12-C **Lab Sample ID:** 551401614-0034

**Sample Description:** Room 121/12"x12" VFT white/beige coloured w/beige flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray	0%	100%	None Detected	

**Client Sample ID:** 13-A **Lab Sample ID:** 551401614-0035

**Sample Description:** Room 125/12"x12" VFT cream/wheat coloured w/purple fleck

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Beige	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	Beige	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** 13-B **Lab Sample ID:** 551401614-0036

**Sample Description:** Room 125/12"x12" VFT cream/wheat coloured w/purple fleck

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Beige	0%	100%	None Detected	

**Client Sample ID:** 13-C **Lab Sample ID:** 551401614-0037

**Sample Description:** Room 135/12"x12" VFT cream/wheat coloured w/purple fleck

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Beige	0%	100%	None Detected	

**Client Sample ID:** 14-A **Lab Sample ID:** 551401614-0038

**Sample Description:** Room 124/12"x12" VFT white/green foam coloured w/directional flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Beige	0.0%	100%	<0.25% Chrysotile	
TEM Grav. Reduction	3/15/2014	Beige	0.0%	91.3%	8.7% Chrysotile	



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EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 14-B **Lab Sample ID:** 551401614-0039  
**Sample Description:** Room 124/12"x12" VFT white/green foam coloured w/directional flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/15/2014					Stop Positive (Not Analyzed)

**Client Sample ID:** 14-C **Lab Sample ID:** 551401614-0040  
**Sample Description:** Room 124/12"x12" VFT white/green foam coloured w/directional flecks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/15/2014					Stop Positive (Not Analyzed)

**Client Sample ID:** 15-A **Lab Sample ID:** 551401614-0041  
**Sample Description:** Room 127B/textured plaster on horizontal beam enclosure

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	Gray /White	0.0%	100%	None Detected	

**Client Sample ID:** 15-B **Lab Sample ID:** 551401614-0042  
**Sample Description:** Room 127B/textured plaster on horizontal beam enclosure

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	Gray	0.0%	100%	None Detected	

**Client Sample ID:** 15-C **Lab Sample ID:** 551401614-0043  
**Sample Description:** Room 127B/textured plaster on horizontal beam enclosure

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	Gray	0.0%	100%	None Detected	

**Client Sample ID:** 16-A **Lab Sample ID:** 551401614-0044  
**Sample Description:** Exterior entrance 141A/textured plaster on exterior overhang

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	98.7%	1.3% Chrysotile	

**Client Sample ID:** 16-B **Lab Sample ID:** 551401614-0045  
**Sample Description:** Exterior entrance 141A/textured plaster on exterior overhang

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014					Positive Stop (Not Analyzed)

**Client Sample ID:** 16-C **Lab Sample ID:** 551401614-0046  
**Sample Description:** Exterior entrance 141A/textured plaster on exterior overhang

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014					Positive Stop (Not Analyzed)



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EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 17-A **Lab Sample ID:** 551401614-0047  
**Sample Description:** Room 116B/drywall joint compound on drywall wall (1959)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 17-B **Lab Sample ID:** 551401614-0048  
**Sample Description:** Corridor 144/drywall joint compound on drywall wall above lockers (1959)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	Brown /White	0.0%	100%	None Detected	

**Client Sample ID:** 17-C **Lab Sample ID:** 551401614-0049  
**Sample Description:** Room 121/drywall joint compound on drywall wall above door (1959)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	Gray /White	0.0%	100%	None Detected	

**Client Sample ID:** 18-A **Lab Sample ID:** 551401614-0050  
**Sample Description:** Corridor 145/drywall joint compound on drywall wall above lockers (1984)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 18-B **Lab Sample ID:** 551401614-0051  
**Sample Description:** Corridor 140A/drywall joint compound on drywall bulkhead (1984)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 18-C **Lab Sample ID:** 551401614-0052  
**Sample Description:** Room 135/drywall joint compound on drywall wall ceiling (1984)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 19-A **Lab Sample ID:** 551401614-0053  
**Sample Description:** Room 112/drywall joint compound on drywall bulkhead (1967)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 19-B **Lab Sample ID:** 551401614-0054  
**Sample Description:** Room 112/drywall joint compound on drywall bulkhead (1967)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	



# EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8  
Phone/Fax: 289-997-4602 / (289) 997-4607  
<http://www.EMSL.com> / [torontolab@emsl.com](mailto:torontolab@emsl.com)

EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 19-C **Lab Sample ID:** 551401614-0055  
**Sample Description:** Room 112/drywall joint compound on drywall bulkhead (1967)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/17/2014	White	0.0%	100%	None Detected	

**Client Sample ID:** 20-A **Lab Sample ID:** 551401614-0056  
**Sample Description:** Room 110/vinyl baseboard black coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/14/2014	Black	0.0%	100%	None Detected	
TEM Grav. Reduction	3/15/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** 20-B **Lab Sample ID:** 551401614-0057  
**Sample Description:** Room 111/vinyl baseboard black coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown	0%	100%	None Detected	

**Client Sample ID:** 20-C **Lab Sample ID:** 551401614-0058  
**Sample Description:** Room 112/vinyl baseboard black coloured

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Brown	0%	100%	None Detected	

**Client Sample ID:** 21-A **Lab Sample ID:** 551401614-0059  
**Sample Description:** Room 116/2'x4' ceiling tile fissure on the 4'

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	

**Client Sample ID:** 21-B **Lab Sample ID:** 551401614-0060  
**Sample Description:** Room 105/2'x4' ceiling tile fissure on the 4'

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	65%	35%	None Detected	

**Client Sample ID:** 21-C **Lab Sample ID:** 551401614-0061  
**Sample Description:** Room 105/2'x4' ceiling tile fissure on the 4'

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White	70%	30%	None Detected	

**Client Sample ID:** 22-A **Lab Sample ID:** 551401614-0062  
**Sample Description:** Room 116/2'x4' ceiling tile fissure on the 2'

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	



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EMSL Canada Order 551401614  
Customer ID: 55DCSL97  
Customer PO: 702064  
Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

**Client Sample ID:** 22-B **Lab Sample ID:** 551401614-0063  
**Sample Description:** Room 126/2'x4' ceiling tile fissure on the 2'

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	

**Client Sample ID:** 22-C **Lab Sample ID:** 551401614-0064  
**Sample Description:** Room 127A/2'x4' ceiling tile fissure on the 2'

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White	80%	20%	None Detected	

**Client Sample ID:** 23-A **Lab Sample ID:** 551401614-0065  
**Sample Description:** Room 116/2'x4' ceiling tile L fissure & dot

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	

**Client Sample ID:** 23-B **Lab Sample ID:** 551401614-0066  
**Sample Description:** Room 116/2'x4' ceiling tile L fissure & dot

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	

**Client Sample ID:** 23-C **Lab Sample ID:** 551401614-0067  
**Sample Description:** Room 116/2'x4' ceiling tile L fissure & dot

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White	80%	20%	None Detected	

**Client Sample ID:** 24-A **Lab Sample ID:** 551401614-0068  
**Sample Description:** Room 104/2'x4' ceiling tile random fissures with a brown black 2002 manufactures date code

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	

**Client Sample ID:** 24-B **Lab Sample ID:** 551401614-0069  
**Sample Description:** Corridor 145/2'x4' ceiling tile random fissures with a brown black 2002 manufactures date code

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White/Various	70%	30%	None Detected	

**Client Sample ID:** 24-C **Lab Sample ID:** 551401614-0070  
**Sample Description:** Corridor 145/2'x4' ceiling tile random fissures with a brown black 2002 manufactures date code

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/17/2014	Gray/White	80%	20%	None Detected	



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Project ID:

## Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

### Analyst(s)

Alice Feng	PLM Grav. Reduction	(9)
Arabee Sathiasaelan	PLM	(4)
Jon Delos Santos	400 PLM PtCt Grav. Red	(1)
	PLM Grav. Reduction	(13)
Kevin Pang	PLM	(25)
	PLM Grav. Reduction	(4)
Matthew Davis	TEM Grav. Reduction	(9)

Kevin Pang  
or other Approved Signatory

Any questions please contact Kevin Pang.

None Detected = <0.5%. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP of any agency of the U.S. Government.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Report amended: 04/04/2014 22:07:25 Replaces initial report from: 03/17/2014 17:25:29 Reason Code: Client-Change to Sample ID



## **APPENDIX C**

**SAMPLE LIST OF SUSPECT ASBESTOS-CONTAINING BUILDING MATERIALS  
FROM A *GUIDE TO THE REGULATION RESPECTING ASBESTOS ON  
CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS***

## APPENDIX C

### SAMPLE LIST OF SUSPECT ASBESTOS-CONTAINING BUILDING MATERIALS

There are an estimated 3,000 products that contain asbestos. In Ontario, asbestos was widely used in sprayed-on material and in pipe and boiler insulation until 1973<sup>(1)</sup>. The use of many other asbestos-containing materials continued until the mid-1980s. Asbestos is still used in the manufacture of a limited number of products, including some floor tiles, cement products, friction materials and textiles. The following list was adapted from the United States Environmental Protection Agency's (EPA) *Sample List of Suspect Asbestos Containing Materials*<sup>(2)</sup>. It is not an all inclusive list but is intended as a general guide to show which types of building materials may contain asbestos.

#### *Possible Asbestos-Containing Materials in Buildings*

X Acoustical Plaster	X Elevator Equipment Panels
X Adhesives	X Fire Doors
X Asphalt Floor Tile	X Fireproofing Materials
X Base Flashing	X Flooring Backing
X Blown-in (Loose Fill) Insulation	X Heating and Electrical Ducts
X Boiler Insulation	X High Temperature Gaskets
X Breaching Insulation	X HVAC Duct Insulation
X Caulking/Putties	X Joint Compounds
X Ceiling Tiles and Lay-in Panels	X Pipe Insulation (corrugated air-cell, block, etc.)
X Cement Pipes	X Roofing Felt
X Cement Siding	X Roofing Shingles
X Cement Wallboard	X Spackling Compounds
X Construction Mastics (floor tile, carpet, ceiling tile, etc.)	X Sprayed-on Insulation
X Cooling Towers	X Taping Compounds (thermal)
X Decorative Plaster	X Textured Paper Products
X Ductwork Flexible Fabric Connections	X Vinyl Floor Tile
X Electrical Cloth	X Vinyl Sheet Flooring
X Electrical Wiring Insulation	X Vinyl Wall Coverings
X Elevator Brake Shoes	X Wallboard

(1) J.S. Dupre, J.F. Mustard & R.J. Uffin, *Report of the Royal Commission on Matters of Health and Safety Arising from the Use of Asbestos in Ontario*, Ontario Ministry of the Attorney General, Toronto, Ontario, 1984, page 12.

(2) U.S. Environmental Protection Agency, <http://www.epa.gov/Region06/6pd/asbestos/asbmatl.htm>.