

HALTON DISTRICT SCHOOL BOARD

SURVEY OF ASBESTOS-CONTAINING MATERIALS

HOWARD WIGGLESWORTH PUBLIC SCHOOL (GARY ALLAN) 96 GUELPH STREET, GEORGETOWN, ONTARIO

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SURVEY OF ASBESTOS-CONTAINING MATERIALS HOWARD WIGGLESWORTH PUBLIC SCHOOL (GARY ALLAN)

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SURVEY OF ASBESTOS-CONTAINING MATERIALS

Howard Wigglesworth Public School (Gary Allan) 96 Guelph Street, Georgetown, Ontario

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1 INTRODUCTION

Arcadis Canada Inc. (Arcadis) was retained by the Halton District School Board to provide an updated survey of the locations of asbestos-containing materials at Howard Wigglesworth (Gary Allan) Public School located at 96 Guelph Street in Georgetown, Ontario following asbestos remediation associated with the renovation project between August to November 2018.

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.

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ltem	Type of Material	Size of Area of Homogeneous Material	Minimum Number of Bulk Material Samples to be Collected
	Surfacing material, including without	Less than 90 square metres	3
1.	limitation material that is applied to surfaces by spraying, by trowelling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on	90 or more square metres, but less than 450 square metres	5
	structural members	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

Table 1.1: Bulk Material Samples (from O.Reg. 278/05)

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 – <u>Owner's Responsibility before requesting tender or arranging work</u> – 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.

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2 METHODOLOGY

2.1 Survey

Site inspections were carried out by DCS staff in August and October 2007 to determine the locations of building construction materials suspected of containing asbestos. All readily accessible areas, including spaces above accessible suspended ceilings, were inspected throughout the facility.

Site inspections were also performed in select areas of the building on June 25, 2018. This report has been updated to include additional findings of the site inspections performed in the selected areas in 2018.

Representative bulk samples of material from different ages of construction were collected by Arcadis 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 recommended corrective actions were required at the time that this report was prepared.

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3 SURVEY RESULTS

Arcadis reviewed reports prepared by Arcadis for the Halton District School Board entitled Survey of Asbestos-Containing Materials, Howard Wigglesworth Public School, Georgetown, Ontario dated August 2013, Designated Substances and Hazardous Materials Survey, Howard Wigglesworth (Gary Allan) Public School, 96 Guelph Street, Georgetown, Ontario dated March 2012, and Pre-Renovation Designated Substances and Hazardous Materials Survey, Howard Wigglesworth (Gary Allan) Public School, 96 Guelph Street, Georgetown, Ontario dated March 2012, and Pre-Renovation Designated Substances and Hazardous Materials Survey, Howard Wigglesworth (Gary Allan) Public School, 96 Guelph Street, Georgetown, Ontario dated July 17, 2018. Information and/or bulk sample analysis results obtained from these reports were utilized by Arcadis in the preparation of this report.

On the basis of the survey work carried out, we report that <u>friable asbestos-containing materials</u> are present in the Howard Wigglesworth (Gary Allan) Building in the following accessible applications:

• Thermal insulation on pipe fittings and pipe straights in Rooms 1, 1A, 8, 9, 10, 11, 12 and 24.

Asbestos-containing thermal insulation applied to pipe fittings observed throughout the facility is a greycoloured cementitious-like material.

Asbestos-containing thermal insulation applied to pipe straights is "Air-Cell" insulation or "Anti-sweat" insulation. "Aircell" is a trade name for a grey-coloured corrugated paper-like type of pipe insulation, usually found on heating and domestic hot water piping.

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

- 9" x 9" vinyl floor tiles in various locations throughout the facility;
- Mastic associated with 9" x 9" vinyl floor tiles in Rooms 8 and 11;
- Vinyl baseboard and associated mastic in Rooms 8 and 11;
- 12" x 12" vinyl floor tiles in Rooms 17, 18 and 29;
- 12" x 12" vinyl floor tiles (assumed asbestos) in Rooms 2 and 5A;
- Cement board behind radiator in Rooms 8, 9, 10, 11, 12 and 21;
- Cement piping in Rooms 29A, 29C and 31; and
- Cement wall panels in Rooms 17 and 19.

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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 plans 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

Sample No. Sample Location		Sample Description	Asbestos Content
1A	Room 7	2'x4' ceiling tile - pinhole	None detected ⁽¹⁾
1B	Room 10	2'x4' ceiling tile - pinhole None detect	
1C	Room 20	2'x4' ceiling tile - pinhole None deter	
2A	Room 7	9" vinyl floor tile – green with beige streaks	10.5% chrysotile ^(1,5)
3A	Room 7	Mastic under 9" vinyl floor tile	8% chrysotile
4A	Room 27	Levelling compound	None detected ⁽¹⁾
4B	Room 27	Levelling compound	None detected ⁽¹⁾
4C	Room 27	Levelling compound	None detected ⁽¹⁾
5A	Room 27	Mastic under 12" vinyl floor tile	2% chrysotile ^(1,5)
6A	Room 27A	Mastic under 12" vinyl floor tile	8% chrysotile ^(1,5)
7A	Room 9	Mastic under (new look) 12" vinyl floor tile	None detected ⁽¹⁾
7B	Room 10	Mastic under (new look) 12" vinyl floor tile	None detected ⁽¹⁾
7C	Room 12	Mastic under (new look) 12" vinyl floor tile	None detected ⁽¹⁾
8A	Room 11	Carpet mastic	None detected ⁽¹⁾
8B	Room 11	Carpet mastic	None detected ⁽¹⁾
8C	Room 11	Carpet mastic	None detected ⁽¹⁾
9A	Room 7	Baseboard (hard and black)	10% chrysotile ^(1,5)
10A	Room 7	Mastic under hard baseboard (brown)	2% chrysotile ^(1,5)
11A	Room 9	Baseboard (black) and baseboard mastic	None detected ⁽¹⁾
11B	Room 10	Baseboard (black) and baseboard mastic	None detected ⁽¹⁾
11C	Room 12	Baseboard (black) and baseboard mastic	None detected ⁽¹⁾
12A	Corridor 13	Paint on brick	None detected ⁽¹⁾
12B	Room 9	Paint on brick None det	
12C	Room 10	Paint on brick	None detected ⁽¹⁾
13A	Corridor 13	Brick mortar	None detected ⁽¹⁾
13B	Room 7	Brick mortar	None detected ⁽¹⁾

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Sample No.	Sample Location	Sample Description	Asbestos Content	
13C	Room 8	Brick mortar	None detected ⁽¹⁾	
14A	Room 20	Concrete block mortar	None detected ⁽¹⁾	
14B	Room 20	Concrete block mortar	None detected ⁽¹⁾	
14C	Room 20	Concrete block mortar	None detected ⁽¹⁾	
15	Room 12	Vermiculite	None detected ⁽¹⁾	
107-TH-2A	Rm: 107	Caulking, Clear, interior window frame.	None Detected (TEM) (2)	
111-TH-2B	Rm: 111	Caulking, Clear, interior window frame.	None Detected ⁽²⁾	
117-TH-2C	Rm: 117	Caulking, Clear, interior window frame.	None Detected ⁽²⁾	
107-TH-3	Rm: 107	Cement board insulation, radiators.	24.3% Chrysotile ⁽²⁾	
107-TH-4A	Rm: 107	Caulking, clear/yellow, between metal frame and window.	None Detected ⁽²⁾	
109-TH-4B	Rm: 109	Caulking, clear/yellow, between metal frame and window.	None Detected ⁽²⁾	
111-TH-4C	Rm: 111	Caulking, clear/yellow, between metal frame and window.	None Detected ⁽²⁾	
110A-TH-5A	Rm: 110A	Caulking, Blue grey, interior door frame.	None Detected (TEM) (2)	
113A-TH-5B	Rm: 113A	Caulking, Blue grey, interior door frame.	None Detected (2)	
113A-TH-5C	Rm: 113A	Caulking, Blue grey, interior door frame.	None Detected (2)	
100-TH-6A	Rm: 100	Caulking, white, interior bottom window frame.	None Detected (TEM) (2)	
100-TH-6B	Rm: 100	Caulking, white, interior bottom window frame.	None Detected (2)	
100-TH-6C	Rm: 100	Caulking, white, interior bottom window frame.	None Detected (2)	
C100-TH-7A	Rm: C100	Caulking, white, interior wood window frames.	None Detected (TEM) (2)	
C100-TH-7B	Rm: C100	Caulking, white, interior wood window frames.	3% Chrysotile ⁽²⁾	
EXT101-CK- 1A	EXT: 101	Caulking, grey, exterior window, frame and brick. (old)	8.2% Chrysotile ⁽²⁾	
EXT106-CK- 3A	EXT: 106	Caulking, grey, exterior window, frame and brick.	<0.25% Chrysotile (TEM) ^(2,4)	
EXT120-CK- 3B	EXT: 120	Caulking, grey, exterior window, frame and brick.	<1% Chrysotile ⁽²⁾	
EXT109-CK- 3C	EXT: 109	Caulking, grey, exterior window, frame and brick. 3% Chry		
EXT106-CK- 4A	EXT: 106	Caulking, grey, exterior window, glass and frame. 0.72% Chry		
EXT106-CK- 5A	EXT: 106	Caulking, white, exterior window, glass and frame.	d 0.63% Chrysotile ⁽²⁾	
EXT108-CK- 6A	EXT: 108	Caulking, clear, exterior window, glass and frame.	None Detected (TEM) (2)	

Sample No.	Sample Location	Sample Description	Asbestos Content
EXT120-CK- 6B	EXT: 120	Caulking, clear, exterior window, glass and frame	None Detected ⁽²⁾
EXT111-CK- 6C	EXT: 111	Caulking, clear, exterior window, glass and frame	None Detected ⁽²⁾
EXT110-CK- 7A	EXT: 110	Caulking, grey, exterior door.	None Detected (TEM) (2)
EXT110-CK- 7B	EXT: 110	Caulking, grey, exterior door.	None Detected ⁽²⁾
EXT113-CK- 7C	EXT: 113	Caulking, grey, exterior door.	None Detected ⁽²⁾
EXT116-CK- 9A	EXT: 116	Caulking, shiny white, exterior window, frame and glass wall.	None Detected (TEM) (2)
EXT107-CK- 9B	EXT: 107	Caulking, shiny white, exterior window, frame and glass wall.	None Detected ⁽²⁾
EXT109-CK- 9C	EXT: 109	Caulking, shiny white, exterior window, frame and glass wall.	None Detected ⁽²⁾
110-TXPL-1A	Rm: 110	Texture plaster on wall	None Detected (2)
110-TXPL-1B	Rm: 110	Texture plaster on wall	None Detected (2)
110A-TXPL- 1C	Rm: 110A	Texture plaster on wall	<0.40% Actinolite (2,4)
113A-TXPL- 1D	Rm: 113A	Texture plaster on wall	0.52% Actinolite ⁽²⁾
100-DW-1A	Rm: 100	Drywall joint compound on drywall wall	None Detected (2)
2C100-DW- 1B	Rm: C100	Drywall joint compound on drywall ceiling	None Detected ⁽²⁾
C100-DW-1C	Room C100	Drywall joint compound on drywall ceiling	None Detected (2)
101-DW-1D	Room 101	Drywall joint compound on drywall wall	None Detected (2)
W.SOF-TC- 1A	Exterior Soffit – West - Outside Corridor C102	Texture coat and drywall joint compound	None Detected (2)
W.SOF-TC- 1B	Exterior Soffit – West - Outside Corridor C102	Texture coat and drywall joint compound	None Detected ⁽²⁾
E.SOF-TC- 1C	Exterior Soffit – East - Outside Corridor C102	Texture coat and drywall joint compound None Detected	
RF-1	1971 Building	Roof Felts	None Detected (TEM) (2)
RF-2	1971 Building	Roof Felts	None Detected (TEM) (2)
RF-4	1955 Building	Roof Felts	None Detected (TEM) (2)
RF-5	1951 Building	Roof Felts	<0.25% Chrysotile (TEM) ^(2,4)

Sample No.	Sample Location	Sample Description	Asbestos Content
RF-6	1951 Building	Roof Felts	None Detected (TEM) (2)
RF-7	1951 Building	Roof Felts	None Detected (TEM) (2)
RF-8	1951 Building	Roof Felts	<0.25% Chrysotile (TEM) ^(2,4)
RF-9	1951 Building	Roof Felts	<0.25% Chrysotile (TEM) ^(2,4)
1A-SCT-29A	Room 29A	2'x4' Suspended Ceiling Tile- Random small short line fissure	None Detected ⁽³⁾
1B-SCT-29A	Room 29A	2'x4' Suspended Ceiling Tile- Random small short line fissure	None Detected ⁽³⁾
1C-SCT-29C	Room 29C	2'x4' Suspended Ceiling Tile- Random small short line fissure	None Detected ⁽³⁾
2A-SCT-29A	Room 29A	2'x4' Suspended Ceiling Tile- Deep long fissure on 2'	None Detected ⁽³⁾
2B-SCT-29A	Room 29A	2'x4' Suspended Ceiling Tile- Deep long fissure on 2'	None Detected ⁽³⁾
* 4	Room 29C	2'x4' Ceiling Tile	None Detected ⁽³⁾
3A-SCT-29C	Room 29C	2'x4' Suspended Ceiling Tile- Flower pinhole	None Detected ⁽³⁾
3B-SCT-29C	Room 29C	2'x4' Suspended Ceiling Tile- Flower pinhole	None Detected ⁽³⁾
* 5	Room 29C	2'x4' Ceiling Tile	None Detected ⁽³⁾
4A-SCT-29C	Room 29C	2'x4' Suspended Ceiling Tile- Thick long fissure on 4'	None Detected ⁽³⁾
4B-SCT-29C	Room 29C	2'x4' Suspended Ceiling Tile- Thick long fissure on 4'	None Detected ⁽³⁾
* 6	Room 29C	2'x4' Ceiling Tile	None Detected ⁽³⁾
5A-VFT-12	Room 12	12" Vinyl Floor Tile- Gray with white & gray speckles (New Look)	None Detected ⁽³⁾
5B-VFT-10	Room 10	12" Vinyl Floor Tile- Gray with white & gray speckles (New Look)	None Detected ⁽³⁾
5C-VFT-12	Room 12	12" Vinyl Floor Tile- Gray with white & gray speckles (New Look)	None Detected ⁽³⁾
6A-ACT-12	Room 12	12" Acoustic Ceiling Tile- Plain white	None Detected (3)
6B-ACT-10	Room 10	12" Acoustic Ceiling Tile- Plain white	None Detected (3)
* 2	Room 14	12" x 12" Ceiling Tile	None Detected (3)
7A-ACT-12	Room 12	12" Acoustic Ceiling Tile- Uniformed holes None Deter	
7B-ACT-10	Room 10	12" Acoustic Ceiling Tile- Uniformed holes	None Detected ⁽³⁾
* 1	Room 21	12" x 12" Ceiling Tile None Detec	
8A-VFT-8A	Room 8A	12" Vinyl Floor Tile- White with black speckles	None Detected (3)
8B-VFT-8A	Room 8A	12" Vinyl Floor Tile- White with black speckles	None Detected ⁽³⁾

Sample No.	Sample Location	Sample Description	Asbestos Content	
8C-VFT-6	Room 6	12" Vinyl Floor Tile- White with black speckles	None Detected ⁽³⁾	
9A-JC-18	Room 18	Drywall Joint Compound- Wall	None Detected (3)	
9B-JC-18	Room 18	Drywall Joint Compound- Wall	None Detected (3)	
9C-JC-18	Room 18	Drywall Joint Compound- Wall	None Detected (3)	
10A-VFT-27A	Room 27A	12" Vinyl Floor Tile- Beige with swivel purple speckles	1.3% Chrysotile ^(3,5)	
11A-ACT- Cor2	Corridor 2	12" Acoustic Ceiling Tile- Random large/small holes	None Detected ⁽³⁾	
11B-ACT- Cor2	Corridor 2	12" Acoustic Ceiling Tile- Random large/small holes	None Detected ⁽³⁾	
11C-ACT- Cor2	Corridor 2	12" Acoustic Ceiling Tile- Random large/small holes	None Detected ⁽³⁾	
12A-JC-27	Room 27	Drywall Joint Compound- Wall	None Detected (3)	
12B-JC-27	Room 27	Drywall Joint Compound- Pipe chase	None Detected (3)	
12C-JC-27	Room 27	Drywall Joint Compound- Wall	None Detected (3)	
13A-VFT-27	Room 27	12" Vinyl Floor Tile- Beige with brown streaks	0.96% Chrysotile ^(3,5)	
14A-OT-11	Room 11	Black Paper between 12" Acoustic ceiling tile & drywall	None Detected ⁽³⁾	
14B-OT-11	Room 11	Black Paper between 12" Acoustic ceiling tile & drywall	None Detected ⁽³⁾	
14C-OT-11	Room 11	Black Paper between 12" Acoustic ceiling tile & drywall	None Detected ⁽³⁾	
15A-ACT-11	Room 11	12" Acoustic Ceiling Tile- 2 Layered Textured white	None Detected ⁽³⁾	
15B-ACT-11	Room 11	12" Acoustic Ceiling Tile- 2 Layered Textured white	None Detected ⁽³⁾	
15C-ACT-11	Room 11	12" Acoustic Ceiling Tile- 2 Layered Textured white	None Detected ⁽³⁾	
16A-VFT-22	Room 22	12" Vinyl Floor Tile- Light gray with faded darker speckles	None Detected ⁽³⁾	
16B-VFT-22	Room 22	112" Vinyl Floor Tile- Light gray with faded darker speckles	None Detected ⁽³⁾	
16C-VFT-22	Room 22	12" Vinyl Floor Tile- Light gray with faded darker speckles None De		
17A-VFT-14	Room 14	12" Vinyl Floor Tile- Light tan with random brown speckles None Dete		
17B-VFT-14	Room 14	12" Vinyl Floor Tile- Light tan with random brown speckles	None Detected ⁽³⁾	
17C-VFT-14	Room 14	12" Vinyl Floor Tile- Light tan with random brown speckles	None Detected ⁽³⁾	

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Sample No.	Sample Location	Sample Description	Asbestos Content
18A-ACT-21	Room 21	12" Acoustic Ceiling Tile- Long fissure with pinholes	None Detected ⁽³⁾
18B-ACT-21	Room 21	12" Acoustic Ceiling Tile- Long fissure with pinholes	None Detected ⁽³⁾
18C-ACT-21	Room 21	12" Acoustic Ceiling Tile- Long fissure with pinholes	None Detected ⁽³⁾
19A-VFT-29	Room 29	12" Vinyl Floor Tile- Brown with random white streaks	< 0.5% Chrysotile (3,4)
19B-VFT-29	Room 29	12" Vinyl Floor Tile- Brown with random white streaks	None Detected ⁽³⁾
19C-VFT-29	Room 29	12" Vinyl Floor Tile- Brown with random white streaks	< 0.25% Chrysotile (3,4)
20A-IN-25	Room 25	Insulation on Pipe Straight	None Detected (3)
21A-PL-21	Room 21	Plaster – smooth (wall)	None Detected (3)
21B-PL-21A	Room 21A	Plaster – smooth (wall)	None Detected (3)
21C-PL-21	Room 21	Plaster – smooth (wall)	None Detected (3)
22A-IN-1	Room 1	Insulation on Pipe Straight- Antisweat	None Detected (3)
22B-IN-1	Room 1	Insulation on Pipe Straight- Antisweat	None Detected (3)
* 15	Room 1	Medium hot water heating pipe straight insulation –(Antisweat)	< 0.5% Chrysotile (3,4)
23A-TC-Ex Soffit	Exterior Soffit	Texture Coat	None Detected ⁽³⁾
23B-TC-Ex Soffit	Exterior Soffit	Texture Coat	None Detected ⁽³⁾
* 9	Room 31	Exterior Texture Coat	None Detected (3)
* 8	Room 1	Medium hot water heating pipe straight insulation –(Aircell)	36% Chrysotile ⁽³⁾
* 10	Room 19	Asbestos Cement Board 5.5% Chryso < 0.5% Amo	
* 12	Room 1	Small hot water heating pipe fitting insulation	40% Chrysotile ⁽³⁾
* 13	Room 1	Medium hot water heating pipe fitting insulation	80% Chrysotile ⁽³⁾

NOTES:

- (1) Sample results derived from a report prepared by Arcadis for the Halton District School Board entitled Pre-Renovation Designated Substances and Hazardous Materials Survey, Howard Wigglesworth (Gary Allan) Public School, 96 Guelph Street, Georgetown, Ontario dated July 17, 2018.
- (2) Sample results derived from a report prepared by DCS for the Halton District School Board entitled Designated Substances and Hazardous Materials Survey, Howard Wigglesworth (Gary Allan) Public School, 96 Guelph Street, Georgetown, Ontario dated March 2012.
- (3) Bulk sample results derived from a report prepared by DCS for the Halton District School Board entitled Survey of Asbestos-Containing Materials, Howard Wigglesworth Public School, Georgetown, Ontario dated August 2013.

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(4) "Asbestos-containing material" is defined as material that contains 0.5% or more asbestos by dry weight.

(5) Material collected in the area have since been removed and are provided here for references purposes only.

< = Less than. Chrysotile = Chrysotile asbestos. Amosite = Amosite asbestos. Actinolite = Actinolite asbestos.

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Table 3.2: Summary of Asbestos-Containing Materials

Howard Wigglesworth Public School (Gary Allan)

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	1	Pipe fitting insulation	40%- 80% Chrysotile	Below Ceiling	> 30 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Below Ceiling	30-60 m pipe straights	Friable		
1	1A	Pipe fitting insulation	80% Chrysotile	Below Ceiling	5-10 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Below Ceiling	3-15 m pipe straights	Friable		
1	2	9" vinyl floor tile	Assumed asbestos	Floors	50-100 m ²	Non-friable		
		12" vinyl floor tile	Assumed asbestos	Floors	<10 m ²	Non-friable		
1	3	9" vinyl floor tile	Assumed asbestos	Floors	50-100 m ²	Non-friable		
1	4	9" vinyl floor tile	Assumed asbestos	Floors	50-100 m ²	Non-friable		
1	5	9" vinyl floor tile	Assumed asbestos	Floors	50-100 m ²	Non-friable		
1	5A	9" vinyl floor tile	Assumed asbestos	Floors	<10 m ²	Non-friable		
		12" vinyl floor tile	Assumed asbestos	Floors	10-50 m ²	Non-friable		
1	6	9" vinyl floor tile	Assumed asbestos	Floors	50-100 m ²	Non-friable		
1	7							NACMO

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	8	9" vinyl floor tile	10.5% Chrysotile	Floors	50-100 m ²	Non-friable		
		Floor tile mastic	8% Chrysotile	Under 9" vinyl floor tiles	50-100 m ²	Non-friable		
		Vinyl baseboard	10% chrysotile	On wall	10-50 m ²	Non-friable		
		Vinyl baseboard mastic	2% Chrysotile	On wall	10-50 m ²	Non-friable		
		Cement board	24.3% Chrysotile	Behind radiator	<10 m ²	Non-friable		
		Pipe fitting insulation	80% Chrysotile	Behind radiator	< 5 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Behind radiator	3-15 m pipe straights	Friable		
1	8A							NACMO
1	9	Cement board	24.3% Chrysotile	Behind radiator	<10 m ²	Non-friable		
		Pipe fitting insulation	80% Chrysotile	Behind radiator	< 5 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Behind radiator	3-15 m pipe straights	Friable		
1	10	Cement board	24.3% Chrysotile	Behind radiator	<10 m ²	Non-friable		
		Pipe fitting insulation	80% Chrysotile	Behind radiator	< 5 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Behind radiator	3-15 m pipe straights	Friable		

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	11	9" vinyl floor tile	10.5% Chrysotile	Below carpet	50-100 m ²	Non-friable		
		Floor tile mastic	8% Chrysotile	Under 9" vinyl floor tiles	50-100 m ²	Non-friable		
		Vinyl baseboard	10% chrysotile	On wall	10-50 m²	Non-friable		
		Vinyl baseboard mastic	2% Chrysotile	On wall	10-50 m²	Non-friable		
		Cement board	24.3% Chrysotile	Behind radiator	<10 m ²	Non-friable		
		Pipe fitting insulation	80% Chrysotile	Behind radiator	< 5 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Behind radiator	3-15 m pipe straights	Friable		
1	12	Cement board	24.3% Chrysotile	Behind radiator	<10 m ²	Non-friable		
		Pipe fitting insulation	80% Chrysotile	Behind radiator	< 5 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Behind radiator	3-15 m pipe straights	Friable		
1	13	9" vinyl floor tile	Assumed asbestos	Floors	50-100 m ²	Non-friable		
1	14							NACMO
1	15							NACMO
1	16							NACMO
1	17	Cement board	5.5% Chrysotile <0.5% Amosite	On wall	<10 m ²	Non-friable		
		12" vinyl floor tile	0.96% Chrysotile	Floors	10-50 m²	Non-friable		
1	18	12" vinyl floor tile	0.96% Chrysotile	Floors	10-50 m ²	Non-friable		

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	19	Cement board	5.5% Chrysotile <0.5% Amosite	On wall	10-50 m ²	Non-friable		
1	21	Cement board	5.5% Chrysotile <0.5% Amosite	Behind radiator	<10 m ²	Non-friable		
1	21A	9" vinyl floor tile	Assumed asbestos	Floor	<10 m ²	Non-friable		
1	22							NACMO
1	23							NACMO
1	24	Pipe fitting insulation	80% Chrysotile	Below ceiling	<5 pipe fittings	Friable		
		Pipe straight insulation	36% Chrysotile	Below ceiling	3 - 15 m	Friable		
1	25							NACMO
1	25A							No access at the time of site inspection.
1	27							NACMO
1	27A							NACMO
1	29	12" vinyl floor tile	1.3% Chrysotile	Floor	10-50 m ²	Non-friable		
		12" vinyl floor tile	0.96% Chrysotile	Floor	10-50 m ²	Non-friable		
1	29A	Cement pipe	Assumed asbestos	Above ceiling	3-15 m ²	Non-friable		
1	29B							NACMO
1	29C	Cement pipe	Assumed asbestos	Above ceiling	3-15 m ²	Non-friable		

HOWARD WIGGLESWORTH PUBLIC SCHOOL (GARY ALLAN)

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	29D							NACMO
1	29E							NACMO
1	29F							NACMO
1	Cor-1							NACMO
1	Cor- 2							NACMO
1	Cor- 3							NACMO
1	EX-1							NACMO
1	S-1							NACMO
2	31	Cement pipe	Assumed asbestos	Above ceiling	<3-m ²	Non-friable		

NOTES:

Condition: G = Good.

F = Fair. P = Poor.

NACMO: No Asbestos-Containing Materials Observed.

NOTEI: 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).

HOWARD WIGGLESWORTH PUBLIC SCHOOL (GARY ALLAN)

4 **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"⁽¹⁾ 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
- 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

⁽¹⁾ 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.

HOWARD WIGGLESWORTH PUBLIC SCHOOL (GARY ALLAN)

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 Arcadis, including, but not limited to, roofing materials, fire doors, mastics or cementitious levelling compound under vinyl flooring, acoustic ceiling tile adhesive, grout, 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.

HOWARD WIGGLESWORTH PUBLIC SCHOOL (GARY ALLAN)

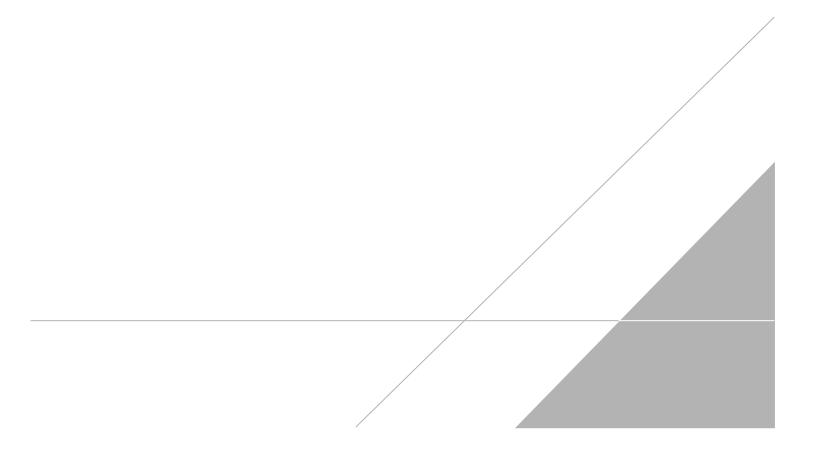
5 USE AND LIMITATIONS OF THIS REPORT

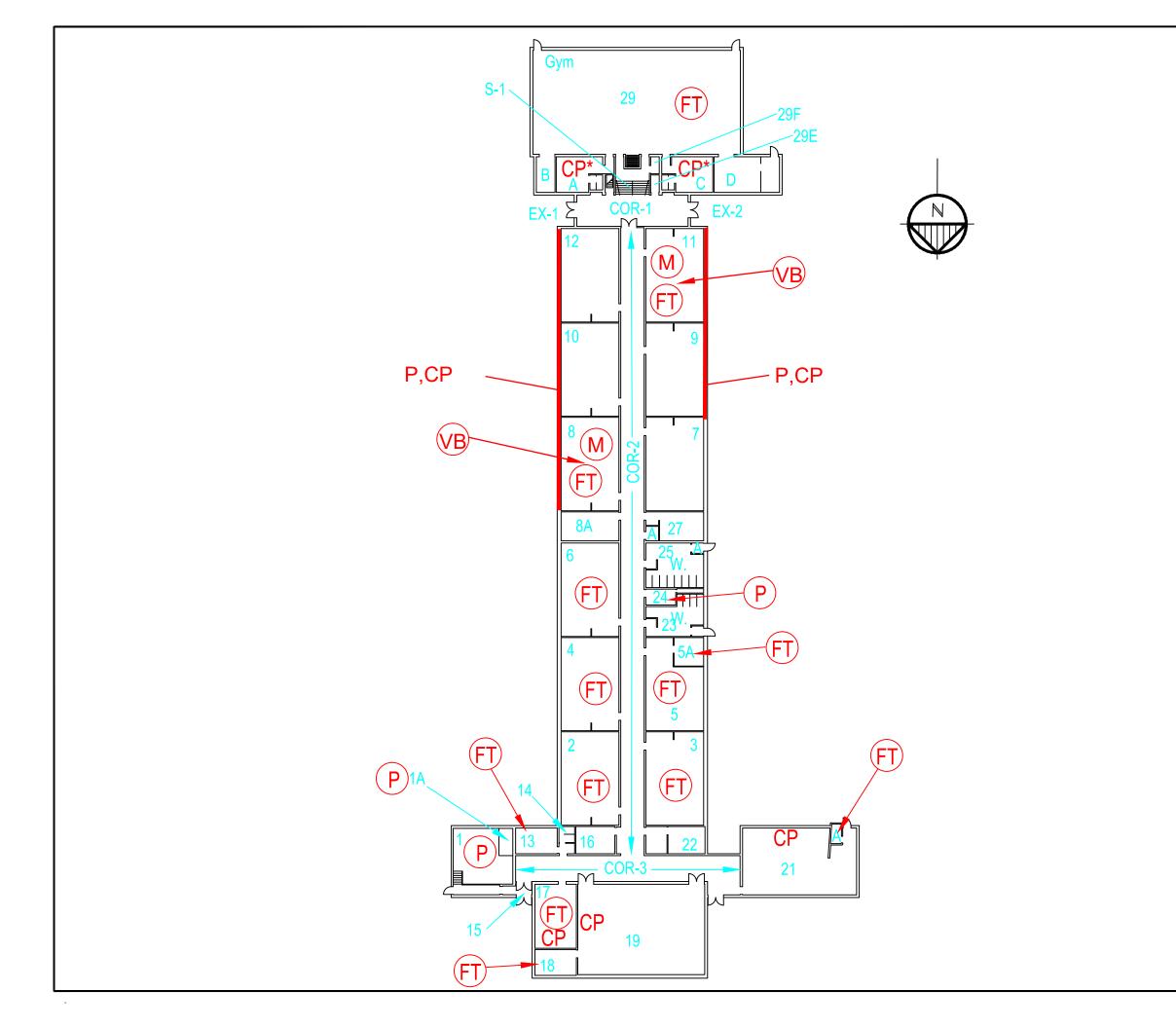
This report, prepared for the Halton District School Board, does not provide certification or warranty, expressed or implied, that the investigation conducted by Arcadis identified all asbestos-containing materials present in the subject facilities. The work undertaken by Arcadis was directed to provide 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 Arcadis 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.



Floor Plans



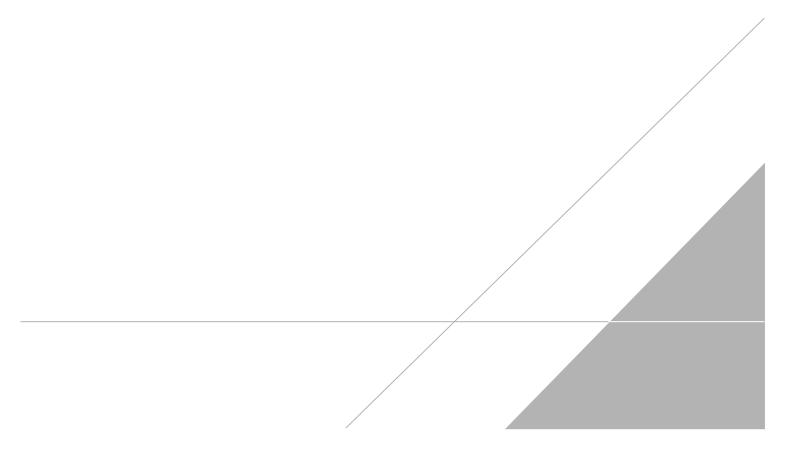


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Data	D.J.K ec 2018	Scale:	N.T.S	Project No: 702170-182 Drawing No: 702170-182-1

APPENDIX B

Laboratory Reports



EMSL Canada Order 551807652 EMSL Canada Inc. 55DCSL97 Customer ID: MSL 702170-178 2756 Slough Street Mississauga, ON L4T 1G3 Customer PO: Phone/Fax: (289) 997-4602 / (289) 997-4607 Project ID: http://www.EMSL.com / torontolab@emsl.com Attn: Phone: Dwayne Kellyman (905) 882-5984 ARCADIS Canada Inc. Fax: (905) 882-8962 121 Granton Drive Collected: Unit 12 Received: 6/28/2018 Richmond Hill, ON L4B 3N4 Analyzed: 7/03/2018 Howard Wigglesworth /702170-178 Proj: Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method 551807652-0001 1A Lab Sample ID: Client Sample ID:

Sample Description:	Room 7/2'x4' Ceiling Tile -	Pinhole					
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray/White	80%	20%	None Detected		
Client Sample ID:	1B					Lab Sample ID:	551807652-0002
Sample Description:	Room 10/2'x4' Ceiling Tile	- Pinhole					
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray/White	80%	20%	None Detected		
Client Sample ID:	1C					Lab Sample ID:	551807652-0003
Sample Description:	Room 20/2'x4' Ceiling Tile	- Pinhole					
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray/White	0%	100%	None Detected		
Client Sample ID:	2A					Lab Sample ID:	551807652-0004
Sample Description:	Room 7/9" Vinyl Floor Tile	- Green With Beig	e Streaks				
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	7/03/2018	Green	0.0%	89.5%	10.5% Chrysotile		
TEM Grav. Reduction	7/03/2018			Posit	ive Stop (Not Analyzed)		
Client Sample ID:	2B					Lab Sample ID:	551807652-0005
Sample Description:	Room 8/9" Vinyl Floor Tile	- Green With Beig	e Streaks				
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Posit	ive Stop (Not Analyzed)		
Client Sample ID:	2C					Lab Sample ID:	551807652-0006
Sample Description:	Room 11/9" Vinyl Floor Tile	- Green With Beig	ge Streaks				
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Posit	ive Stop (Not Analyzed)		
Client Sample ID:	3A					Lab Sample ID:	551807652-0007
Sample Description:	Room 7/Mastic under 9" Vi	nyl Floor Tile					
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	

7/03/2018

Black

0%

92%

8% Chrysotile

PLM



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Client Sample ID:	3B					Lab Sample ID:	551807652-0008
Sample Description:	Room 8/Mastic under 9" Vinyl	Floor Tile					
	Analyzed			-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	/e Stop (Not Analyzed)		
Client Sample ID:	3C					Lab Sample ID:	551807652-0009
Sample Description:	Room 11/Mastic under 9" Viny	l Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	/e Stop (Not Analyzed)		
Client Sample ID:	4A					Lab Sample ID:	551807652-0010
Sample Description:	Room 27/Levelling Compound						
	<u> </u>						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	4B					Lab Sample ID:	551807652-0011
Sample Description:	Room 27/Levelling Compound					-	
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	4C					Lab Sample ID:	551807652-0012
Sample Description:							
	Room 27/Levening compound						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	5A					Lab Sample ID:	551807652-0013
Sample Description:		ul Elece Tile				Lub Gumple 12.	
Sample Description.	Room 27/Mastic under 12" Vin	yi Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%		2% Chrysotile		
						Lah Sampla ID:	551807652-0014
Client Sample ID:	5B					Lab Sample ID:	551607652-0014
Sample Description:	Room 27/Mastic under 12" Vin	yl Floor Tile					
				• • • • • •			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	000	FIDIOUS		ve Stop (Not Analyzed)	comment	
Client Sample ID:	5C					Lab Sample ID:	551807652-0015
Sample Description:	Room 27/Mastic under 12" Vin	yl Floor Tile					
	Analyzed			-Asbestos		. .	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	e Stop (Not Analyzed)		



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					lieu		
Client Sample ID:	6A					Lab Sample ID:	551807652-0016
Sample Description:	Room 27A/Mastic under 12"	Vinyl Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	92%	8% Chrysotile		
Client Sample ID:	6B					Lab Sample ID:	551807652-0017
Sample Description:	Room 27A/Mastic under 12"	Vinyl Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	ve Stop (Not Analyzed)		
Client Sample ID:	6C					Lab Sample ID:	551807652-0018
Sample Description:	Room 27A/Mastic under 12"	Vinyl Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	ve Stop (Not Analyzed)		
Client Sample ID:	7A					Lab Sample ID:	551807652-0019
Sample Description:	Room 9/Mastic under 12" Vir	nyl Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	100%	None Detected		
Client Sample ID:	7B					Lab Sample ID:	551807652-0020
Sample Description:	Room 10/Mastic under 12" V	inyl Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	100%	None Detected		
Client Sample ID:	7C					Lab Sample ID:	551807652-0021
Sample Description:	Room 12/Mastic under 12" V	inyl Floor Tile					
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	100%	None Detected		
Client Sample ID:	8A					Lab Sample ID:	551807652-0022
Sample Description:	Room 11/Carpet Mastic						
	·						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Brown	0%	100%	None Detected		
Client Sample ID:	8B					Lab Sample ID:	551807652-0023
Sample Description:	Room 11/Carpet Mastic						
	r						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Brown	0%	100%	None Detected		



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Client Sample ID:	8C					Lab Sample ID:	551807652-0024
Sample Description:	Room 11/Carpet Mastic						
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Brown	0%	100%	None Detected		
Client Sample ID:	9A					Lab Sample ID:	551807652-0025
Sample Description:		nd Black)					
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	90%	10% Chrysotile		
Client Sample ID:	9B					Lab Sample ID:	551807652-0026
•						Lub Gumple ID.	0010010020020
Sample Description:	Room 8/Baseboard (Hard ar	па віаск)					
	Analyzed		Non	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018				ve Stop (Not Analyzed)		
Client Sample ID:	9C					Lab Sample ID:	551807652-0027
Sample Description:	Room 11/Baseboard (Hard a	and Black)					
TEOT	Analyzed	Onlas		Asbestos	A = b = = 4 = =	Commont	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			POSItiv	ve Stop (Not Analyzed)		
Client Sample ID:	10A					Lab Sample ID:	551807652-0028
Sample Description:	Room 7/Mastic under Hard I	Baseboard (Browr	ו)				
	Analyzed			Asbestos		_	
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Brown	0%	98%	2% Chrysotile		
Client Sample ID:	10B					Lab Sample ID:	551807652-0029
Sample Description:	Room 8/Mastic under Hard I	Baseboard (Browr	ו)				
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	ve Stop (Not Analyzed)		
Client Sample ID:	10C					Lab Sample ID:	551807652-0030
Sample Description:	Room 11/Mastic under Hard	Baseboard (Brow	/n)				
		200000010 (2.01)	,				
	Analyzed		Non	Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018			Positiv	ve Stop (Not Analyzed)		
Client Sample ID:	11A-Baseboard				<u> </u>	Lab Sample ID:	551807652-0031
-		and Decision (11)				Las Gumple ID.	551001002-0001
Sample Description:	Room 9/Baseboard (Black)	and Baseboard M	astic				
	Applyand		Nor	Asbestos			
TEST	Analyzed Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	100%	None Detected		
	1100/2010	Diach	0 /0	100/0			



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			PA600/R				
Client Sample ID:	11A-Mastic					Lab Sample ID:	551807652-0031A
Sample Description:	Room 9/Baseboard (Black)	and Baseboard Ma	istic				
	Analysis		New	A - h			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Beige	0%	100%	None Detected	Comment	
						l ab Campla ID:	551807652-0032
Client Sample ID:	11B-Baseboard					Lab Sample ID:	551607652-0032
Sample Description:	Room 10/Baseboard (Black) and Baseboard M	lastic				
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	100%	None Detected		
Client Sample ID:	11B-Mastic					Lab Sample ID:	551807652-0032A
Sample Description:	Room 10/Baseboard (Black) and Baseboard M	lastic				
		-					
	Analyzed			Asbestos			
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Beige	0%	100%	None Detected		
Client Sample ID:	11C-Baseboard					Lab Sample ID:	551807652-0033
Sample Description:	Room 12/Baseboard (Black) and Baseboard M	lastic				
	Averbased		New	A - h			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Black	0%	100%	None Detected		
Client Semple ID:	11C-Mastic					Lab Sample ID:	551807652-0033A
Client Sample ID: Sample Description:	Room 12/Baseboard (Black) and Rapphoard M	lactio			Lub Gampie ibi	
			lastic				
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Ashastas		
PLM	7/02/2010				Asbestos	Comment	
	7/03/2018	Beige	0%	100%	None Detected	Comment	
Client Sample ID:	12A	Beige		100%		Comment	551807652-0034
		Beige		100%			551807652-0034
	12A	Beige		100%			551807652-0034
Sample Description:	12A Corridor 13/Paint on Brick Analyzed		0% Non-	Asbestos	None Detected	Lab Sample ID:	551807652-0034
Sample Description: TEST	12A Corridor 13/Paint on Brick Analyzed Date	Color	0% Non- Fibrous	Asbestos Non-Fibrous	None Detected		551807652-0034
Sample Description: TEST	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018		0% Non-	Asbestos	None Detected	Lab Sample ID: Comment	
Sample Description: TEST PLM Client Sample ID:	12A Corridor 13/Paint on Brick Analyzed Date	Color	0% Non- Fibrous	Asbestos Non-Fibrous	None Detected	Lab Sample ID:	551807652-0034
Sample Description: TEST PLM Client Sample ID:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018	Color	0% Non- Fibrous	Asbestos Non-Fibrous	None Detected	Lab Sample ID: Comment	
Sample Description: TEST PLM Client Sample ID:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick	Color	0% Non- Fibrous 0%	Asbestos Non-Fibrous 100%	None Detected	Lab Sample ID: Comment	
Sample Description: TEST PLM Client Sample ID: Sample Description:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick Analyzed	Color White/Yellow	0% Non- Fibrous 0% Non-	Asbestos Non-Fibrous 100% Asbestos	None Detected Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick	Color	0% Non- Fibrous 0% Non-	Asbestos Non-Fibrous 100%	None Detected	Lab Sample ID: Comment	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick Analyzed Date 7/03/2018	Color White/Yellow Color	0% Non- Fibrous 0% Non- Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous	None Detected Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551807652-0035
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick Analyzed Date 7/03/2018 12C	Color White/Yellow Color	0% Non- Fibrous 0% Non- Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous	None Detected Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID:	
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick Analyzed Date 7/03/2018	Color White/Yellow Color	0% Non- Fibrous 0% Non- Fibrous	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous	None Detected Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551807652-0035
PLM Client Sample ID: Sample Description:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick Analyzed Date 7/03/2018 12C	Color White/Yellow Color	0% Non- Fibrous 0% Non- Fibrous 0%	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous	None Detected Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551807652-0035
Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	12A Corridor 13/Paint on Brick Analyzed Date 7/03/2018 12B Room 9/Paint on Brick Analyzed Date 7/03/2018 12C Room 10/Paint on Brick	Color White/Yellow Color	0% Non- Fibrous 0% Non- Fibrous 0%	Asbestos Non-Fibrous 100% Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551807652-0035



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			PA600/R				
Client Sample ID:	13A					Lab Sample ID:	551807652-0037
ample Description:	Corridor 13/Brick Mortar						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	13B					Lab Sample ID:	551807652-0038
Sample Description:	Room 7/Brick Mortar						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	13C					Lab Sample ID:	551807652-0039
Sample Description:	Room 8/Brick Mortar						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	14A					Lab Sample ID:	551807652-0040
Sample Description:	Room 20/Concrete Block N	lortar					
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	14B					Lab Sample ID:	551807652-0041
Sample Description:	Room 20/Concrete Block N	lortar					
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	7/03/2018	Gray	0%	100%	None Detected		
Client Sample ID:	14C					Lab Sample ID:	551807652-0042
Sample Description:	David 00/0 months Divid N	lartar					
	Room 20/Concrete Block N	ional					
	Room 20/Concrete Block IV	IUITAI					
	Room 20/Concrete Block M	IOI (al	Non-	Asbestos			
TEST		Color		Asbestos Non-Fibrous	Asbestos	Comment	
	Analyzed				Asbestos None Detected	Comment	
PLM	Analyzed Date	Color	Fibrous	Non-Fibrous		Comment Lab Sample ID:	551807652-0043
PLM Client Sample ID:	Analyzed Date 7/03/2018 15	Color	Fibrous	Non-Fibrous			551807652-0043
PLM Client Sample ID:	Analyzed Date 7/03/2018	Color	Fibrous	Non-Fibrous			551807652-0043
PLM Client Sample ID:	Analyzed Date 7/03/2018 15	Color	Fibrous 0%	Non-Fibrous			551807652-0043
TEST PLM Client Sample ID: Sample Description: TEST	Analyzed Date 7/03/2018 15 Room 12/Vermiculite	Color	Fibrous 0% Non-	Non-Fibrous 100%			551807652-0043



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

Analyst(s):

Matthew Davis PLM (33) Michelle Lung PLM Grav. Reduction (1)

Reviewed and approved by:

anot

Matthew Davis or other approved signatory or Other Approved Signatory

None Detected = <0.1%. 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

Initial report from: 07/03/201817:01:10



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Attn:	Ryan Farnsworth	Phone:	(905) 882-5984	
	Decommissioning Consulting Services Ltd.	Fax:	(905) 882-8962	
	121 Granton Drive	Collected:	. ,	
	Unit 11	Received:	3/08/2012	
	Richmond Hill, ON L4B 3N4	Analyzed:	3/13/2012	
Proj:	WRIGGLESWORTH H.S.			

Client Sample ID:	107-TH-2A					Lab Sample ID:	551200853-0001
Sample Description:	ROOM 107/CAULKING, CL	EAR, INTERIOR W	INDOW FRAM	E			
	Analyzed		Non-/	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	Clear	0.0%	100%	None Detected		
TEM Grav. Reduction	3/13/2012	Ciear	0.0%	100%	None Detected		
Client Sample ID:	111-TH-2B					Lab Sample ID:	551200853-0002
Sample Description:	ROOM 111/CAULKING, CL	EAR, INTERIOR W	INDOW FRAM	E			
	Analyzed		Non-/	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Clear	0%	100%	None Detected		· · · · · · · · · · · · · · · · · · ·
Client Sample ID:	117-TH-2C					Lab Sample ID:	551200853-0003
Sample Description:	ROOM 117/CAULKING, CL	EAR, INTERIOR W	INDOW FRAM	E			
	Analyzed		Non-A	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Clear	0%	100%	None Detected		
							774000000000000
Client Sample ID:	107-TH-3					Lab Sample ID:	551200853-0004
Client Sample ID: Sample Description:	ROOM 107/CEMENT BOAN	RD INSULATION, R		Ashastas		Lab Sample ID:	551200853-0004
Sample Description:	ROOM 107/CEMENT BOAI		Non-/	Asbestos Non-Fibrous	Acheetoe	·	551200853-0004
Sample Description: TEST	ROOM 107/CEMENT BOAN	Color	Non-/	Non-Fibrous	Asbestos 24.3% Chrysotile	Lab Sample ID:	551200853-0004
Sample Description: TEST	ROOM 107/CEMENT BOAI Analyzed Date		Non-# Fibrous		Asbestos 24.3% Chrysotlie	·	551200853-0004
Sample Description: TEST PLM Grav. Reduction Client Sample ID:	ROOM 107/CEMENT BOAN Analyzed Date 3/09/2012	Color Gray	Non-A Fibrous 0.0%	Non-Fibrous 75.7%	24.3% Chrysotile	Comment	
Sample Description: TEST PLM Grav. Reduction Client Sample ID:	ROOM 107/CEMENT BOAI Analyzed Date 3/09/2012 107-TH-4A	Color Gray	Non-4 Fibrous 0.0%	Non-Fibrous 75.7%	24.3% Chrysotile	Comment	
Sample Description: TEST PLM Grav. Reduction Client Sample ID:	ROOM 107/CEMENT BOAN Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL	Color Gray	Non-A Fibrous 0.0% FWEEN METAL Non-A	Non-Fibrous 75.7% - FRAME & WIN	24.3% Chrysotile	Comment	
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST	ROOM 107/CEMENT BOAN Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed	Color Gray EAR/YELLOW, BE ⁻	Non-A Fibrous 0.0% FWEEN METAL Non-A	Non-Fibrous 75.7% - FRAME & WIN Asbestos	24.3% Chrysotile	Comment Lab Sample ID:	
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction	ROOM 107/CEMENT BOAN Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date	Color Gray EAR/YELLOW, BE ⁻ Color	Non-A Fibrous 0.0% FWEEN METAL Non-A Fibrous	Non-Fibrous 75.7% - FRAME & WIN Asbestos Non-Fibrous	24.3% Chrysotile DOW Asbestos	Comment Lab Sample ID:	
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID:	ROOM 107/CEMENT BOAI Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012	Color Gray EAR/YELLOW, BE Color Yellow /Clear	Non-A Fibrous 0.0% FWEEN METAL Non-A Fibrous 0.0%	Non-Fibrous 75.7% L FRAME & WIN Asbestos Non-Fibrous 100%	24.3% Chrysotile DOW Asbestos None Detected	Comment Lab Sample ID: Comment	551200853-0005
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID:	ROOM 107/CEMENT BOAN Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B	Color Gray EAR/YELLOW, BE Color Yellow /Clear	Non-A Fibrous 0.0% IWEEN METAL Non-A Fibrous 0.0%	Non-Fibrous 75.7% L FRAME & WIN Asbestos Non-Fibrous 100%	24.3% Chrysotile DOW Asbestos None Detected	Comment Lab Sample ID: Comment	551200853-0005
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST	ROOM 107/CEMENT BOAH Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B ROOM 109/CAULKING, CL	Color Gray EAR/YELLOW, BE Color Yellow /Clear	Non-A Fibrous O.0% TWEEN METAL Non-A Fibrous O.0%	Non-Fibrous 75.7% FRAME & WIN Asbestos Non-Fibrous 100%	24.3% Chrysotile DOW Asbestos None Detected	Comment Lab Sample ID: Comment	551200853-0005
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST	ROOM 107/CEMENT BOAH Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B ROOM 109/CAULKING, CL Analyzed	Color Gray EAR/YELLOW, BE ⁻ Color Yellow /Clear EAR/YELLOW, BE ⁻	Non-A Fibrous O.0% TWEEN METAL Non-A Fibrous O.0%	Non-Fibrous 75.7% L FRAME & WIN Asbestos Non-Fibrous 100% L FRAME & WIN Asbestos	24.3% Chrysotile DOW Asbestos None Detected DOW	Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0005
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	ROOM 107/CEMENT BOAH Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B ROOM 109/CAULKING, CL Analyzed Date	Color Gray EAR/YELLOW, BE Color Yellow /Clear EAR/YELLOW, BE Color	Non-A Fibrous TWEEN METAL Non-A Fibrous TWEEN METAL Non-A Fibrous	Non-Fibrous 75.7% - FRAME & WIN Asbestos 100% - FRAME & WIN Asbestos Non-Fibrous	24.3% Chrysotile DOW Asbestos DOW Asbestos	Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0005
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID:	ROOM 107/CEMENT BOAH Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B ROOM 109/CAULKING, CL Analyzed Date 3/13/2012	Color Gray EAR/YELLOW, BE ⁻ Color Yellow /Clear EAR/YELLOW, BE ⁻ Color Yellow/Clear	Non-A Fibrous IWEEN METAL Non-A Fibrous IWEEN METAL Non-A Fibrous IWEEN METAL Non-A Fibrous	Non-Fibrous 75.7% Asbestos Non-Fibrous 100% - FRAME & WIN Asbestos Non-Fibrous 100%	24.3% Chrysotile DOW Asbestos DOW Asbestos None Detected None Detected None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0005 551200853-0006
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM	ROOM 107/CEMENT BOAH Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B ROOM 109/CAULKING, CL Analyzed Date 3/13/2012	Color Gray EAR/YELLOW, BE ⁻ Color Yellow /Clear EAR/YELLOW, BE ⁻ Color Yellow/Clear	Non-A Fibrous IWEEN METAL Non-A Fibrous IWEEN METAL Non-A Fibrous 0%	Non-Fibrous 75.7% Asbestos Non-Fibrous 100% - FRAME & WIN Asbestos Non-Fibrous 100%	24.3% Chrysotile DOW Asbestos DOW Asbestos None Detected None Detected None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0005 551200853-0006
Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID:	ROOM 107/CEMENT BOAH Analyzed Date 3/09/2012 107-TH-4A ROOM 107/CAULKING, CL Analyzed Date 3/09/2012 109-TH-4B ROOM 109/CAULKING, CL Analyzed Date 3/13/2012	Color Gray EAR/YELLOW, BE ⁻ Color Yellow /Clear EAR/YELLOW, BE ⁻ Color Yellow/Clear	Non-A Fibrous IWEEN METAL Non-A Fibrous IWEEN METAL Non-A	Non-Fibrous 75.7% FRAME & WIN Asbestos Non-Fibrous 100% FRAME & WIN Asbestos Non-Fibrous 100%	24.3% Chrysotile DOW Asbestos DOW Asbestos None Detected None Detected None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0005 551200853-0006



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Client Sample ID:							
-	110A-TH-5A					Lab Sample ID:	551200853-0008
Sample Description:	ROOM 110A/CAULKING,	BLUE GREY, INTER	IOR DOOR F	RAME			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM Grav. Reduction	3/09/2012	Gray /Blue	0.0%	100%	None Detected		
EM Grav. Reduction	3/13/2012	Gray /Blue	0.0%	100%	None Detected		
Client Sample ID:	113A-TH-5B		110			Lab Sample ID:	551200853-0009
Sample Description:	ROOM 113A/CAULKING, I	BLUE GREY, INTER	IOR DOOR F	RAME			
	Anchwod		Neu	A			
TEST	Analyzed Date	Color		-Asbestos Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Gray/Various	0%	100%	None Detected	Comment	
Client Sample ID:	113A-TH-5C					Lab Sample ID:	551200853-0010
Sample Description:	ROOM 113A/CAULKING, E			RAME		Lub oumpie ib.	331200033-0010
7007	Analyzed			Asbestos			
TEST PLM	3/13/2012	Color	Fibrous		Asbestos	Comment	
		Gray/Various	0%	100%	None Detected		
Client Sample ID:	100-TH-6A					Lab Sample ID:	551200853-0011
Sample Description:	ROOM 100/CAULKING, W	HITE, INTERIOR BO	TTOM WIND	OW FRAME			
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
LM Grav. Reduction	3/09/2012	White	0.0%	100%	None Detected		
EM Grav. Reduction	3/13/2012	White	0.0%	100%	None Detected	1111111111111111111	554 P - 547 5 - 555 5 Million
Client Sample ID:	100-TH-6B					Lab Sample ID:	551200853-0012
Sample Description:							
ampro Desemplatin.	ROOM 100/CAULKING, W	HITE, INTERIOR BO		OW FRAME			
		HITE, INTERIOR BO					
	Analyzed		Non-	Asbestos		·	
TEST	Analyzed Date	Color	Non- Fibrous	Asbestos Non-Fibrous	Asbestos	Comment	
TEST	Analyzed Date 3/13/2012		Non-	Asbestos	Asbestos None Detected	Comment	
TEST LM lient Sample ID:	Analyzed Date 3/13/2012 100-TH-6C	Color White	Non- Fibrous 0%	Asbestos Non-Fibrous 100%		·	551200853-0013
TEST LM lient Sample ID:	Analyzed Date 3/13/2012	Color White	Non- Fibrous 0%	Asbestos Non-Fibrous 100%		Comment	
TEST LM Client Sample ID:	Analyzed Date 3/13/2012 100-TH-6C	Color White	Non- Fibrous 0%	Asbestos Non-Fibrous 100%		Comment	
TEST LM lient Semple ID:	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI	Color White	Non- Fibrous 0% OTTOM WIND Non-	Asbestos Non-Fibrous 100% OW FRAME		Comment	
TEST LM Silient Sample ID: ample Description: TEST	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed	Color White HITE, INTERIOR BC	Non- Fibrous 0% OTTOM WIND Non-	Asbestos Non-Fibrous 100% OW FRAME Asbestos	None Detected	Comment	
TEST LM Slient Sample ID: Cample Description: TEST	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date	Color White HITE, INTERIOR BC Color	Non- Fibrous 0% NTTOM WIND Non- Fibrous	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous	None Detected	Comment	
TEST LM Silient Sample ID: Sample Description: TEST LM	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012	Color White HITE, INTERIOR BC Color White	Non- Fibrous 0% TTOM WIND Non- Fibrous 0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100%	None Detected	Comment Lab Sample ID: Comment	551200853-0013
TEST CLM Client Sample ID: Cample Description: TEST LLM Client Sample ID:	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012 C100-TH-7A ROOM C100/CAULKING, V	Color White HITE, INTERIOR BC Color White	Non- Fibrous 0% TTOM WIND Non- Fibrous 0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100%	None Detected	Comment Lab Sample ID: Comment	551200853-0013
TEST LM Silient Sample ID: Sample Description: TEST LM Silient Sample ID: ample Description:	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed 3/13/2012 C100-TH-7A ROOM C100/CAULKING, V Analyzed	Color White HITE, INTERIOR BC Color White White	Non- Fibrous O% TTOM WIND Non- Fibrous O% DOW FRAME	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0013
TEST Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012 C100-TH-7A ROOM C100/CAULKING, V Analyzed Date	Color White HITE, INTERIOR BC Color White VHITE, WOOD WINI Color	Non- Fibrous OW WIND Non- Fibrous OW FRAME Non- Fibrous	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos Non-Fibrous	None Detected Asbestos None Detected Asbestos	Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0013 551200853-0014
TEST LM Semple Description: TEST LM Semple Description: TEST TEST LM Grav. Reduction	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed 3/13/2012 C100-TH-7A ROOM C100/CAULKING, V Analyzed	Color White HITE, INTERIOR BC Color White White	Non- Fibrous O% TTOM WIND Non- Fibrous O% DOW FRAME	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos	None Detected Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0013
TEST LM Client Sample ID: ample Description: TEST LM Client Sample ID: ample Description: TEST LM Grav. Reduction EM Grav. Reduction	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012 C100-TH-7A ROOM C100/CAULKING, V Analyzed Date 3/13/2012	Color White HITE, INTERIOR BC Color White VHITE, WOOD WINI Color White	Non- Fibrous OW WIND Non- Fibrous OOW FRAME Non- Fibrous 0.0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment Trace amount of t	551200853-0013 551200853-0014
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST LM Grav. Reduction EM Grav. Reduction EM Grav. Reduction	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012 C100-TH-7A ROOM C100/CAULKING, V Analyzed Date 3/13/2012 3/13/2012 3/13/2012	Color White HITE, INTERIOR BC Color White VHITE, WOOD WINI Color White White	Non- Fibrous O% TTOM WIND Non- Fibrous OW FRAME Non- Fibrous 0.0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0013 551200853-0014
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST LM Grav. Reduction EM Grav. Reduction Ellent Sample ID:	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012 C100-TH-7A ROOM C100/CAULKING, W Analyzed Date 3/13/2012 C100-TH-7B ROOM C100/CAULKING, W	Color White HITE, INTERIOR BC Color White VHITE, WOOD WINI Color White White	Non- Fibrous OW Non- Fibrous OW FRAME Non- Fibrous 0.0% 0.0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected Asbestos None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment Trace amount of t	551200853-0013 551200853-0014
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST LM Grav. Reduction EM Grav. Reduction EM Grav. Reduction EM Grav. Reduction	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed 0 3/13/2012 C100-TH-7A ROOM C100/CAULKING, W Analyzed 3/13/2012 C100-TH-7B ROOM C100/CAULKING, W	Color White HITE, INTERIOR BC Color White WHITE, WOOD WINI Color White White	Non- Fibrous OW INDA Non- Fibrous OW FRAME Non- Fibrous 0.0% 0.0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos Non-Fibrous 100% 5 Asbestos	Asbestos Asbestos Asbestos None Detected None Detected None Detected	Comment Lab Sample ID: Comment Lab Sample ID: Comment Trace amount of t Lab Sample ID:	551200853-0013 551200853-0014
TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Analyzed Date 3/13/2012 100-TH-6C ROOM 100/CAULKING, WI Analyzed Date 3/13/2012 C100-TH-7A ROOM C100/CAULKING, W Analyzed Date 3/13/2012 C100-TH-7B ROOM C100/CAULKING, W	Color White HITE, INTERIOR BC Color White VHITE, WOOD WINI Color White White	Non- Fibrous OW INDA Non- Fibrous OW FRAME Non- Fibrous 0.0% 0.0%	Asbestos Non-Fibrous 100% OW FRAME Asbestos Non-Fibrous 100% S Asbestos Non-Fibrous 100%	None Detected Asbestos None Detected Asbestos None Detected	Comment Lab Sample ID: Comment Trace amount of t Lab Sample ID: Lab Sample ID: Comment	551200853-0013 551200853-0014



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Cilent Sample ID:	C100-TH-7C					Lab Sample ID:	551200853-0016
Sample Description:	ROOM C100/CAULKING, WH	IITE, WOOD WI	NDOW FRAMES	3			
	Analyzed			Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	3/13/2012 Stop Positive (Not Analyze					
Client Sample ID:	EXT101-CK-1A					Lab Sample ID:	551200853-0017
Sample Description:	EXT 101/CAULKING, GREY,	EXTERIOR WIN	IDOW, FRAME	& BRICK (OLD)			
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	Gray	0.0%	91.8%	8.2% Chrysotile		
Cilent Sample ID:	EXT120-CK-1B					Lab Sample ID:	551200853-0018
Sample Description:	EXT 120/CAULKING, GREY,	EXTERIOR WIN	IDOW, FRAME	& BRICK (OLD)			
	Analyzed		Non-/	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012			Stop	Positive (Not Analyzed)		
Client Sample iD:	EXT100-CK-1C					Lab Sample ID:	551200853-0019
Sample Description:	EXT 100/CAULKING, GREY,	EXTERIOR WIN	IDOW, FRAME &	& BRICK (OLD)			
	Analyzed		Non-A	Asbestos			
			China and a	Non-Fibrous	Asbestos	Comment	
TEST	Date	Coior	FIDFOUS	NON-FIDIOUS	~~~~~~	oominent	
PLM Client Sample ID:	Date 3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I			Stop	Positive (Not Analyzed)	Lab Sample ID:	551200853-0020
PLM Cilent Sample ID:	3/13/2012 EXT106-CK-3A		DOW, FRAME &	Stop			551200853-0020
PLM Cilent Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY,		IDOW, FRAME { Non-/	Stop & BRICK			551200853-0020
^D LM Client Sample ID: Sample Description: TEST	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, Analyzed	EXTERIOR WIN	IDOW, FRAME { Non-/	Stop & BRICK Asbestos	Positive (Not Analyzed)	Lab Sample ID:	551200853-0020
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, Analyzed Date	EXTERIOR WIN	IDOW, FRAME & Non-A Fibrous	Stop & BRICK Asbestos Non-Fibrous	Positive (Not Analyzed) Asbestos	Lab Sample ID:	551200853-0020
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, Analyzed Date 3/13/2012	EXTERIOR WIN Color Gray	IDOW, FRAME (Non-/ Fibrous 0.0%	Stop & BRICK Asbestos Non-Fibrous 100%	Positive (Not Analyzed) Asbestos <0.25% Chrysotile	Lab Sample ID:	551200853-0020 551200853-0021
PLM Cilent Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012	EXTERIOR WIN Color Gray Gray	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0%	Stop & BRICK Asbestos Non-Fibrous 100% 99.8%	Positive (Not Analyzed) Asbestos <0.25% Chrysotile	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B	EXTERIOR WIN Color Gray Gray	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0%	Stop & BRICK Asbestos Non-Fibrous 100% 99.8%	Positive (Not Analyzed) Asbestos <0.25% Chrysotile	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Grav. Reduction EM Grav. Reduction Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I	EXTERIOR WIN Color Gray Gray	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0% DOW, FRAME & Non-4	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK	Positive (Not Analyzed) Asbestos <0.25% Chrysotile	Lab Sample ID: Comment	
Client Sample ID: Sample Description: TEST PLM Grav. Reduction EM Grav. Reduction Client Sample ID: Sample Description: TEST	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed	EXTERIOR WIN Color Gray Gray EXTERIOR WIN	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0% DOW, FRAME & Non-4	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos	Asbestos <0.25% Chrysotile <0.25% Chrysotile	Lab Sample ID: Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID: Sample Description: TEST	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date	EXTERIOR WIN Color Gray Gray EXTERIOR WIN Color	IDOW, FRAME & Non-/ Fibrous 0.0% 0.0% IDOW, FRAME & Non-/ Fibrous	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos Non-Fibrous	Asbestos <0.25% Chrysotile <0.25% Chrysotile Asbestos	Lab Sample ID: Comment Lab Sample ID:	
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012	EXTERIOR WIN Color Gray Gray EXTERIOR WIN Color Gray	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0% IDOW, FRAME & Non-4 Fibrous 0%	Stop & BRICK Asbestos 100% 99.8% & BRICK Asbestos Non-Fibrous 100%	Asbestos <0.25% Chrysotile <0.25% Chrysotile Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0021
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C	EXTERIOR WIN Color Gray Gray EXTERIOR WIN Color Gray	IDOW, FRAME & Non-/ Fibrous 0.0% 0.0% IDOW, FRAME & Non-/ Fibrous 0%	Stop & BRICK Asbestos 100% 99.8% & BRICK Asbestos Non-Fibrous 100%	Asbestos <0.25% Chrysotile <0.25% Chrysotile Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0021
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C EXT 109/CAULKING, GREY, I	EXTERIOR WIN Color Gray Gray EXTERIOR WIN Color Gray	IDOW, FRAME & Non-/ Fibrous 0.0% 0.0% IDOW, FRAME & Non-/ IDOW, FRAME & Non-/	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos Non-Fibrous 100% & BRICK	Asbestos <0.25% Chrysotile <0.25% Chrysotile Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0021
Client Sample ID: Sample Description: TEST PLM Grav. Reduction EM Grav. Reduction EM Grav. Reduction Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C EXT 109/CAULKING, GREY, I Analyzed	EXTERIOR WIN Color Gray Gray EXTERIOR WIN Color Gray EXTERIOR WIN	IDOW, FRAME & Non-/ Fibrous 0.0% 0.0% IDOW, FRAME & Non-/ IDOW, FRAME & Non-/	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos 100% & BRICK Asbestos	Asbestos <0.25% Chrysotile <0.25% Chrysotile <0.25% Chrysotile Asbestos <1% Chrysotile	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0021
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction FEM Grav. Reduction Client Sample ID: Sample Description: TEST Client Sample ID: Sample Description: TEST PLM	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C EXT 109/CAULKING, GREY, I Analyzed Date 3/13/2012	EXTERIOR WIN Color Gray EXTERIOR WIN Color EXTERIOR WIN EXTERIOR WIN	IDOW, FRAME & Non-A Fibrous 0.0% 1DOW, FRAME & Non-A Fibrous 0%	Stop & BRICK Asbestos 100% 99.8% & BRICK Asbestos 100% & BRICK Asbestos Non-Fibrous	Asbestos <0.25% Chrysotile <0.25% Chrysotile <0.25% Chrysotile Asbestos <1% Chrysotile	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0021
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction FEM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C EXT 109/CAULKING, GREY, I Analyzed Date	EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray	IDOW, FRAME & Non-A Fibrous 0.0% 0.0% IDOW, FRAME & Non-A Fibrous 0% IDOW, FRAME & Non-A Fibrous	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos 100% & BRICK Asbestos Non-Fibrous 97%	Asbestos <0.25% Chrysotile <0.25% Chrysotile <0.25% Chrysotile Asbestos <1% Chrysotile	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0021 551200853-0022
PLM Cilent Sample ID: Sample Description: TEST PLM Grav. Reduction rEM Grav. Reduction Cilent Sample ID: Sample Description: TEST PLM Cilent Sample ID: Sample Description: TEST PLM Cilent Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT106-CK-4A	EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0% IDOW, FRAME & Non-4 Fibrous 0% IDOW, FRAME & Non-4 Fibrous 0%	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos 100% & BRICK Asbestos Non-Fibrous 97%	Asbestos <0.25% Chrysotile <0.25% Chrysotile <0.25% Chrysotile Asbestos <1% Chrysotile	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0021 551200853-0022
PLM Cilient Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Cilient Sample ID: Sample Description: TEST PLM Cilient Sample ID: Sample Description: TEST PLM Cilient Sample ID:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C EXT 109/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT106-CK-4A EXT 106/CAULKING, GREY, I	EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0% IDOW, FRAME & Non-4 Fibrous 0% IDOW, FRAME & Non-4	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos 100% & BRICK Asbestos Non-Fibrous 97% & FRAME	Asbestos <0.25% Chrysotile <0.25% Chrysotile <0.25% Chrysotile Asbestos <1% Chrysotile	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0021 551200853-0022
PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction TEM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	3/13/2012 EXT106-CK-3A EXT 106/CAULKING, GREY, I Analyzed Date 3/13/2012 3/13/2012 EXT120-CK-3B EXT 120/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT109-CK-3C EXT 109/CAULKING, GREY, I Analyzed Date 3/13/2012 EXT106-CK-4A EXT 106/CAULKING, GREY, I Analyzed	EXTERIOR WIN Color Gray Gray EXTERIOR WIN Color Gray EXTERIOR WIN Color Gray EXTERIOR WIN	IDOW, FRAME & Non-4 Fibrous 0.0% 0.0% IDOW, FRAME & Non-4 Fibrous 0% IDOW, FRAME & Non-4	Stop & BRICK Asbestos Non-Fibrous 100% 99.8% & BRICK Asbestos 100% & BRICK Asbestos Non-Fibrous 97% & FRAME Asbestos	Asbestos Asbestos <0.25% Chrysotile <0.25% Chrysotile <0.25% Chrysotile <1% Chrysotile Asbestos <1% Chrysotile 	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	551200853-0021 551200853-0022



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Client Sample ID:	EXT116-CK-4B					Lab Sample ID:	551200853-0024
Sample Description:	EXT 116/CAULKING, GREY,	EXTERIOR WI	NDOW, GLASS	& FRAME			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Flbrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012			Stop	Positive (Not Analyzed)		
Client Sample ID:	EXT111-CK-4C					Lab Sample ID:	551200853-0025
Sample Description:	EXT 111/CAULKING, GREY,	EXTERIOR WIN	NDOW, GLASS	& FRAME			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012			Stop	Positive (Not Analyzed)		
Cilent Sample ID:	EXT106-CK-5A					Lab Sample ID:	551200853-0026
Sample Description:	EXT 106/CAULKING, WHITE	E, EXTERIOR WI	NDOW, GLASS	S & FRAME			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	White	0.0%	99.4%	0.63% Chrysotile		
Client Sample ID:	EXT120-CK-5B					Lab Sample ID:	551200853-0027
Sample Description:	EXT 120/CAULKING, WHITE	, EXTERIOR WI	NDOW, GLASS	S & FRAME			
	Anatyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	-		Stop	Positive (Not Analyzed)		
Client Sample ID:	EXT109-CK-5C					Lab Sample ID:	551200853-0028
Sample Description:	EXT 109/CAULKING, WHITE	, EXTERIOR WI	NDOW, GLASS	S & FRAME			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012			Stop	Positive (Not Analyzed)		
Client Sample ID:	EXT108-CK-6A					Lab Sample ID:	551200853-0029
Sample Description:	EXT 108/CAULKING, CLEAR						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	Clear	0.0%		None Detected		
TEM Grav. Reduction	3/13/2012	Clear	0.0%	100%	None Detected		
Client Sample ID:	EXT120-CK-6B					Lab Sample ID:	551200853-0030
Sample Description:	EXT 120/CAULKING, CLEAR	R, EXTERIOR WI	NDOW, GLAS	S & FRAME			
	Analyzed Non-Asb			-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Clear	0%	100%	None Detected		
Client Sample ID:	EXT111-CK-6C					Lab Sample ID:	551200853-0031
Sample Description:	EXT 111/CAULKING, CLEAR	R, EXTERIOR WI	NDOW, GLAS	S & FRAME			
	Analyzed Non-Asbestos						
TEST	Date	Color		Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Clear	0%	100%	None Detected		



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

Client Sample ID:	EXT110-CK-7A					Lab Sample ID:	551200853-0032
Sample Description:	EXT 110/CAULKING, GRE	Y, EXTERIOR DOO	R				
	Analyzed		Non	Asbestos			
TEST	Date	Coior	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	Gray	0.0%	100%	None Detected		5 AG2 22 A A
TEM Grav. Reduction	3/13/2012	Gray	0.0%	100%	None Detected		
Client Sample ID:	EXT110-CK-7B					Lab Sample ID:	551200853-0033
Sample Description:	EXT 110/CAULKING, GRE	Y, EXTERIOR DOO	2				
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Gray/Various	0%	100%	None Detected		
Client Sample ID:	EXT113-CK-7C					Lab Sample ID:	551200853-0034
Sample Description:	EXT 113/CAULKING, GRE	Y, EXTERIOR DOOI	ર				
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	3/13/2012	Gray/Various	0%	100%	None Detected		····
Cilent Sample ID:	EXT116-CK-9A					Lab Sample ID:	551200853-0035
Sample Description:	EXT 116/CAULKING, SHIN	Y WHITE, EXTERIO	R WINDOW,	FRAME & GLASS	WALL		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	White	0.0%	100%	None Detected		
TEM Grav. Reduction	3/13/2012	White	0.0%	100%	None Detected	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cilent Sample ID:	EXT107-CK-9B					Lab Sample ID:	551200853-0036
Sample Description:	EXT 107/CAULKING, SHIN						
	EXT TOTOROENING, OTHIN	T WHILE, EXTERIC	IR WINDOW,	FRAME & GLASS	WALL		
		WHILE, EXTERIC			WALL.		
TEST	Analyzed		Non-	Asbestos		Comment	
		Color White	Non-		Asbestos	Comment	
PLM	Analyzed Date 3/13/2012	Color	Non- Fibrous	Asbestos Non-Fibrous			551000050.0007
PLM Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C	Color White	Non- Fibrous 0%	Asbestos Non-Fibrous 100%	Asbestos None Detected	Comment Lab Sample ID:	551200853-0037
PLM Client Sample ID:	Analyzed Date 3/13/2012	Color White	Non- Fibrous 0%	Asbestos Non-Fibrous 100%	Asbestos None Detected		551200853-0037
PLM Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C	Color White	Non- Fibrous 0% R WINDOW,	Asbestos Non-Fibrous 100%	Asbestos None Detected		551200853-0037
PLM Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN	Color White	Non- Fibrous 0% PR WINDOW, Non-	Asbestos Non-Fibrous 100% FRAME & GLASS 1 Asbestos	Asbestos None Detected		551200853-0037
PLM Client Sample ID: Sample Description: TEST	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed	Color White Y WHITE, EXTERIC	Non- Fibrous 0% PR WINDOW, Non-	Asbestos Non-Fibrous 100% FRAME & GLASS	Asbestos None Detected WALL	Lab Sample ID:	551200853-0037
PLM Client Sample ID: Sample Description: TEST PLM	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date	Color White Y WHITE, EXTERIC Color	Non- Fibrous 0% 0R WINDOW, Non- Fibrous	Asbestos Non-Fibrous 100% FRAME & GLASS 1 Asbestos Non-Fibrous	Asbestos None Detected WALL Asbestos	Lab Sample ID:	551200853-0037
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012	Color White Y WHITE, EXTERIC Color White	Non- Fibrous 0% 0R WINDOW, Non- Fibrous 0%	Asbestos Non-Fibrous 100% FRAME & GLASS 1 Asbestos Non-Fibrous	Asbestos None Detected WALL Asbestos	Lab Sample ID: Comment	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012 110-TXPL-1A	Color White Y WHITE, EXTERIC Color White	Non- Fibrous 0% R WINDOW, Non- Fibrous 0%	Asbestos Non-Fibrous 100% FRAME & GLASS 1 Asbestos Non-Fibrous	Asbestos None Detected WALL Asbestos	Lab Sample ID: Comment	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012 110-TXPL-1A ROOM 110/TEXTURE PLA Analyzed Date	Color White Y WHITE, EXTERIC Color White	Non- Fibrous 0% WINDOW, Non- Fibrous 0% , WALL Non-	Asbestos Non-Fibrous 100% FRAME & GLASS Asbestos Non-Fibrous 100%	Asbestos None Detected WALL Asbestos	Lab Sample ID: Comment	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed 3/13/2012 110-TXPL-1A ROOM 110/TEXTURE PLA Analyzed	Color White Y WHITE, EXTERIO Color White STER, HARD COAT	Non- Fibrous 0% WINDOW, Non- Fibrous 0% , WALL Non-	Asbestos Non-Fibrous 100% FRAME & GLASS Asbestos Non-Fibrous 100%	Asbestos None Detected WALL Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012 110-TXPL-1A ROOM 110/TEXTURE PLA Analyzed Date	Color White Y WHITE, EXTERIO Color White STER, HARD COAT Color	Non- Fibrous 0% WINDOW, Non- Fibrous 0% , WALL Non- Fibrous	Asbestos Non-Fibrous 100% FRAME & GLASS Asbestos Non-Fibrous 100%	Asbestos None Detected WALL Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID:	
Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012 110-TXPL-1A ROOM 110/TEXTURE PLA Analyzed Date 3/09/2012	Color White Y WHITE, EXTERIO Color White STER, HARD COAT Color White /Various	Non- Fibrous OR WINDOW, Non- Fibrous O% , WALL Non- Fibrous <1%	Asbestos Non-Fibrous 100% FRAME & GLASS Asbestos Non-Fibrous 100%	Asbestos None Detected WALL Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0038
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID:	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012 110-TXPL-1A ROOM 110/TEXTURE PLA Analyzed Date 110-TXPL-1B ROOM 110/TEXTURE PLA	Color White Y WHITE, EXTERIO Color White STER, HARD COAT Color White /Various	Non- Fibrous OR WINDOW, Non- Fibrous O% , WALL Non- Fibrous <1%	Asbestos Non-Fibrous 100% FRAME & GLASS Asbestos Non-Fibrous 100%	Asbestos None Detected WALL Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0038
PLM Client Sample ID: Sample Description: TEST PLM Client Sample ID: Sample Description:	Analyzed Date 3/13/2012 EXT109-CK-9C EXT 109/CAULKING, SHIN Analyzed Date 3/13/2012 110-TXPL-1A ROOM 110/TEXTURE PLA Analyzed Date 3/09/2012 110-TXPL-1B	Color White Y WHITE, EXTERIO Color White STER, HARD COAT Color White /Various	Non- Fibrous OR WINDOW, Non- Fibrous O% , WALL Non- Fibrous <1%	Asbestos Non-Fibrous 100% FRAME & GLASS 1 Asbestos Non-Fibrous 100% Asbestos Non-Fibrous 100%	Asbestos None Detected WALL Asbestos None Detected Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	551200853-0038



10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8 Phone/Fax: 289-997-4602 / (289) 997-4607 <u>http://www.emsl.com</u> / <u>torontolab@emsl.com</u> EMSL Canada Order 551200853Customer ID:55DCSL97Customer PO:701508-000Project ID:701508-000

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

······		t	raouu/R	-93/116 Me	thod		
Client Sample ID:	110A-TXPL-1C					Lab Sample ID:	551200853-0040
Sample Description:	ROOM 110A/TEXTURE PL/	ASTER, HARD COA	T, WALL				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	White /Various	0.0%	100%	<0.40% Actinolite		
Client Sample ID:	113A-TXPL-1D					Lab Sample ID:	551200853-0041
Sample Description:	ROOM 113A/TEXTURE PLA	STER, HARD COA	T, WALL				
TEST	Analyzed Date	Calan		-Asbestos		•	
PLM Grav. Reduction	3/09/2012	Color White /Various	Fibrous		Asbestos 0.52% Actinoiite	Comment	
		This Pranous	0.070	33.5 %			
Client Sample ID:	113A-TXPL-1E					Lab Sample ID:	551200853-0042
Sample Description:	ROOM 113A/TEXTURE PLA	ASTER, HARD COA	T, WALL				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012			Posi	tive Stop (Not Analyzed)		
Client Sample ID:	100-DW-1A					Lab Sample ID:	551200853-0043
Sample Description:	ROOM 100/DRYWALL, WAI	L					
TEST	Analyzed	Calar		Asbestos	A . I	•	
PLM Grav. Reduction	Date 3/09/2012	Color White	0.0%	Non-Fibrous	Asbestos None Detected	Comment	
	-	THAC	0.070				
Client Sample ID:	C100-DW-1B					Lab Sample ID:	551200853-0044
Sample Description:	ROOM C100/DRYWALL, CE	ILING					
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	White	0.0%	100%	None Detected		
Client Sample ID:	C100-DW-1C					Lab Sample ID:	551200853-0045
Sample Description:	ROOM C100/DRYWALL, CE	ILING					
7507	Analyzed			Asbestos			
TEST PLM Gray, Reduction	Date 3/09/2012	Color White	Fibrous	Non-Fibrous	Asbestos	Comment	
		VVIIILES	0.0%	100%	None Detected		
Client Sample ID:	101-DW-1D					Lab Sample ID:	551200853-0046
Sample Description:	ROOM 101/DRYWALL, WAL	L					
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous		Asbestos	Comment	
PLM Grav. Reduction	3/09/2012	White /Blue	0.0%	100%	None Detected		,,,,,,,,,,,,
Client Sample ID:	W.SOF-TC-1A				· · · · · · · · · · · · · · · · · · ·	Lab Sample ID:	551200853-0047
Sample Description:	NOT ON COC						
•							
	Anatyzed			Asbestos			
TEST	Date 2/12/2012	Color		Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/13/2012	Gray White	0.0%	100%	None Detected		
Client Sample ID:	W.SOF-TC-1B					Lab Sample ID:	551200853-0048
Sample Description:	NOT ON COC						
	Analyzed		Non	Ashestos			
TEST	Analyzed Date	Color		Asbestos Non-Fibrous	Asbestos	Comment	

Test Report:EPAMultiTests-7.25.0 Printed: 3/13/2012 12:08PM



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

Client Sample ID:	E.SOF-TC-1C					Lab Sample ID:	551200853-0049
Sample Description:	NOT ON COC						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	3/13/2012	White /Various	0.0%	100%	None Detected		

Analyst(s)

Kevin Pang	TEM Grav. Reduction	(9)
Lisa Podzyhun	PLM	(17)
	PLM Grav. Reduction	(3)
Matthew Davis	PLM Grav. Reduction	(18)
Merriam Haffar	PLM Grav. Reduction	(3)

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Kevin Pang or other Approved Signatory

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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

Initial report from: 03/13/201212:00:29

Test Report: EPAMultiTests-7.25.0 Printed: 3/13/2012 12:08PM



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

EMSL Canada Order	551200794
Customer ID:	55DCSL97
Customer PO:	701309
Project ID:	

Attn:	Jean Daigle	Phone:	(905) 882-5984	
	Decommissioning Consulting Services Ltd.	Fax:	(905) 882-8962	
	121 Granton Drive	Collected:		
	Unit 11	Received:	3/03/2012	
	Richmond Hill, ON L4B 3N4	Analyzed:	3/07/2012	
Proj:	7-1508/GARY ALLAN			

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

Client Sample ID:	RF-1			-95/110 Mie		Lab Sample ID:	551200794-0001
Sample Description:	ROOF FELTS/1971					-as cample iD.	
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	<0.25% Chrysotile		
TEM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		1125723-002223
Client Sample ID:	RF-2					Lab Sample ID:	551200794-0002
Sample Description:	ROOF FELTS/1971						
	Anaiyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
Cilent Sample ID:	RF-4					Lab Sample ID:	551200794-0003
Sample Description:	ROOF FELTS/1955						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
Client Sample ID:	RF-5					Lab Sample ID:	551200794-0004
Sample Description:	ROOF FELTS/1951						
	Analyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	<0.25% Chrysotile		
TEM Grav. Reduction	03/07/2012	Black	0.0%	99.8%	<0.25% Chrysotlie		
Client Sample ID:	RF-6					Lab Sample ID:	551200794-0005
Sample Description:	ROOF FELTS/1951						
	Anaiyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
Client Sample ID:	RF-7					Lab Sample ID:	551200794-0006
Sample Description:	ROOF FELTS/1951						
	Anaiyzed		Non-	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		



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

Client Sample ID:	RF-8					Lab Sample ID:	551200794-0007
Sample Description:	ROOF FELTS/1951						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
TEM Grav. Reduction	03/07/2012	Black	0.0%	100%	<0.25% Chrysotile		
Client Sample ID:	RF-9					Lab Sample ID:	551200794-0008
Sample Description:	ROOF FELTS/1951						
	Anaiyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	03/07/2012	Black	0.0%	100%	None Detected		
FEM Grav. Reduction	03/07/2012	Black	0.0%	100%	<0.25% Chrysotile		CONTRACTOR OF CONTRACT

EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone. (716) 651-0030 Fax: (716) 651-0394 Email: buffalolab@emsl.com

Attn:		Consulting Services Lto	Customer ID: Customer PO: Received:	DCSL97 49103 09/06/07 10:05 AM
	121 Granton Drive,	Unit 11	EMSL Order:	140704921
Fax:	(905) 882-8962	Phone: (905) 882-5984	EMSL Proj:	
Projec	r: 49103 HDSB Howard W	rigglesworth Public School	Analysis Report Date:	9/17/2007 9/17/2007

Asbestos Analysis of Non-Friable Organically Bound materials by Transmission Electron Microscopy via NYS ELAP Method 198.4

SAMPLE ID 5A-VFT-12 140704921-0051	DESCRIPTION room 12, 12" vinyl floor tile gray with white & gray	APPEARANCE Gray/Olive	% MATRIX MATERIAL 100.0	% NON-ASBESTOS FIBERS None		BESTOS YPES No Asbestos I	% TOTAL ASBESTOS Detected
8A-VFT-8A 140704921-0052	room 8A, 12" vinyl floor tile white with black	White/Black	100.0	None		No Asbestos I	Detected
10A-VFT-27A 140704921-0053	room 27A, 12" vinyl floor tile beige with swivel	Beige	98.7	None	1.3%	Chrysotile	1.3
13A-VFT-27 140704921-0054	room 27, 12" vinyl floor tile beige with brown	Beige	99.0	None	0.96%	Chrysotile	0.96
14A-OT-11 140704921-0055	room 11, black paper between 12" acoustic		100.0	None		No Asbestos I	Detected
16A-VFT-22 140704921-0056	room 22, 12" vinyl floor tile light gray with fade	Gray	100.0	None		No Asbestos I	Detected
17A-VFT-14 140704921-0057	room 14, 12" vinyl floor tile light tan with rand	Tan	100.0	None		No Asbestos I	Detected
19A-VFT-29 140704921-0058	room 29, 12" vinyl floor tile brown with random	Brown	100.0	None	<0.5%	Chrysotile	<0.5

Analytical Sensitivity <0.5% Asbestos.

Analyst(s) *Ken Najuch (8)*

Rhonda McGee, Laboratory Manager or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. ACCREDITATIONS: NVLAP #200056-0 and NY STATE ELAP #11606

NY\TNOB-2

THIS IS THE LAST PAGE OF THE REPORT.



 Fax:
 (905) 882-8962
 Phone:
 (905) 882-5984

 Project:
 49103
 HDSB Howard Wrigglesworth Public School

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			Non	<u>Asbestos</u>		
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Туре	
1A-SCT-29A 140704921-0001	room 29A, 2'x4' suspended ceiling tile random	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected	
1B-SCT-29A 140704921-0002	room 29A, 2'x4' suspended ceiling tile random	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected	
1C-SCT-29C 140704921-0003	room 29C, 2'x4' suspended ceiling tile random	Gray Fibrous Homogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected	
2A-SCT-29A 140704921-0004	room 29A, 2'x4' suspended ceiling tile deen long	Gray Fibrous Homogeneous	50.00% Cellulose 20.00% Glass	30.00% Non-fibrous (other)	None Detected	
2B-SCT-29A 140704921-0005	room 29A, 2'x4' suspended ceiling tile deen tonn	Gray Fibrous Homogeneous	60.00% Cellulose 20.00% Min. Wool	20.00% Non-fibrous (other)	None Detected	
3A-SCT-29C 140704921-0007	room 29C, 2'x4' suspended ceiling tile flower nin	Gray Fibrous Homogeneous	30.00% Cellulose 50.00% Glass	20.00% Non-fibrous (other)	None Detected	
3B-SCT-29C 140704921-0008	room 29C, 2'x4' suspended ceiling tile flower nin	Gray Fibrous Homogeneous	30.00% Cellulose 50.00% Min. Wool	20.00% Non-fibrous (other)	None Detected	
4A-SCT-29C 140704921-0010	room 29C, 2'x4' suspended ceiling tile thick long	Gray Fibrous Homogeneous	30.00% Cellulose 40.00% Glass	30.00% Non-fibrous (other)	None Detected	
4B-SCT-29C 140704921-0011	room 29C, 2'x4' suspended ceiling tile thick long	Gray Fibrous Homogeneous	30.00% Cellulose 50.00% Min. Wool	20.00% Non-fibrous (other)	None Detected	

Analyst(s)

Brian Walczak (31) Tom Hanes (14)

1 c Lee

Rhonda McGee, Laboratory Manager or other approved signatory

Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted. Analysis performed by EMSL Buffalo (NVLAP #200056-0), NY ELAP #11606

PLMPointCount-1



 Fax:
 (905) 882-8962
 Phone:
 (905) 882-5984

 Project:
 49103
 HDSB Howard Wrigglesworth Public School

 Customer ID:
 DCSL97

 Customer PO:
 49103

 Received:
 09/06/07 10:05 AM

 EMSL Order:
 140704921

 EMSL Proj:
 Analysis Date:

 Analysis Date:
 9/18/2007

 Report Date:
 10/24/2007

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			Nor	1-Asbestos	Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Туре
5B-VFT-10 140704921-0013	room 10, 12" vinyl floor tile gray with white & or	Green Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
5C-VFT-12 140704921-0014	room 12, 12" vinyl floor tile gray with white & or	Green Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
6A-ACT-12 140704921-0015	room 12, 12" acoustic ceiling tile plain white	Brown Fibrous Homogeneous	90.00% Cellulose	10.00% Non-fibrous (other)	None Detected
6B-ACT-10 140704921-0018	room 10, 12 ^e acoustic ceiling tile plain white	Brown Fibrous Homogeneous	90.00% Cellulose	10.00% Non-fibrous (other)	None Detected
7A-ACT-12 140704921-0018	room 12, 12" acoustic ceiling tile uniformed holes	Tan Fibrous Homogeneous	90.00% Cellulose	10.00% Non-fibrous (other)	None Detected
7B-ACT-10 140704921-0019	room 10, 12" acoustic ceiling tile uniformed boles	Brown Fibrous Homogeneous	90.00% Cellulose	10.00% Non-fibrous (other)	None Detected
3B-VFT-8A 140704921-0021	room 8A, 12" vinyl floor tile white with black spe	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
BC-VFT-6 140704921-0022	room 6, 12" vinyl floor tile white with black sne	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
9A-JC-18 140704921-0023	room 18, drywall joint compound wall	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Brian Walczak (31) Tom Hanes (14)

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Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

				Nor	<u>Asbestos</u>	
Sample	Location	Арреагалсе	%	Fibrous	% Non-Fibrous	% Туре
9B-JC-18 140704921-0024	room 18, drywall joint compound wall	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	None Detected
9 C-J C-18 140704921-0025	room 18, drywall joint compound wall	White Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	None Detected
10B-VFT-27A 140704921-0026	room 27A, 12" vinyl floor tile beige with swivel					Not Analyzed
10C-VFT-27A 140704921-0027	room 27A, 12" vinyl floor tile beige with swivel		Positive stop			Not Analyzed
			Positive stop			
11A-ACT-COR2 140704921-0028	corridor 2, 12" acoustic ceiling tile random lar	Tan Fibrous Homogen c ous	90.00% Cellulose		10.00% Non-fibrous (other)	None Detected
11B-ACT-COR2 140704921-0029	corridor 2, 12" acoustic ceiling tile random lar	Tan Fibrous Homogeneous	90.00% Cellulose		10.00% Non-fibrous (other)	None Detected
11C-ACT-COR2 140704921-0030	corridor 2, 12" acoustic ceiling tile random lar	Brown Fibrous Homogeneous	90.00% Cellulose		10.00% Non-fibrous (other)	None Detected
12A-JC-27 140704921-0031	room 27, drywail joint compound, wall	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	None Detected
12B-JC-27 140704921-0032	room 27, drywall joint compound, pipe chase	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	None Detected

Analyst(s)

Brian Walczak (31) Tom Hanes (14)

Mc. Lee

Rhonda McGee, Laboratory Manager or other approved signatory

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PLMPointCount-1



 Fax:
 (905) 882-8962
 Phone:
 (905) 882-5984

 Project:
 49103
 HDSB Howard Wrigglesworth Public School

Customer ID:	DCSL97
Customer PO:	49103
Received:	09/06/07 10:05 AM
EMSL Order:	140704921
EMSL Proj:	
Analysis Date:	9/18/2007
Report Date:	10/24/2007

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			<u>N</u>	<u>Asbestos</u>	
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Туре
12C-JC-27 140704921-0033	room 27, drywall joint compound, wall	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
13B-VFT -27 140704921-0034	room 27, 12" vinyl floor tile beige with browe		Positive stop		Not Analyzed
13C-VFT-27 140704921-0035	room 27, 12" vinyl floor tile beige with brown		Positive stop		Not Analyzed
14B-OT-11 140704921-0036	room 11, black paper between 12" acoustic	Brown/Black Fibrous Homogeneous	85.00% Celiulose	15.00% Non-fibrous (other)	None Detected
14C-OT-11 140704921-0037	room 11, black paper between 12" acoustic	Black Fibrous Homogeneous	80.00% Cellulose	20.00% Non-fibrous (other)	None Detected
15 A-ACT-1 1 140704921-0038	room 11, 12" acoustic ceiling tile 2 layered tex	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected
15B-ACT-11 140704921-0039	room 11, 12" acoustic ceiling tile 2 layered tex	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected
15C-ACT-11 140704921-0040	room 11, 12" acoustic ceiling tile 2 layered tex	Gray Fibrous Homogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
16B-VFT-22 140704921-0041	room 22, 12" vinyl floor tile light gray with fade	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Brian Walczak (31) Tom Hanes (14)

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Rhonda McGee, Laboratory Manager or other approved signatory

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 (905) 882-5984

 Project:
 49103
 HDSB Howard Wrigglesworth Public School

Customer ID:	DCSL97
Customer PO:	49103
Received:	09/06/07 10:05 AM
EMSL Order:	140704921
EMSL Proj:	
Analysis Date:	9/18/2007
Report Date:	9/18/2007

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			<u>Nor</u>	<u>Non-Asbestos</u>				
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Туре			
14C-OT-11 140704921-0037	room 11, black paper between 12" acoustic	Black Fibrous Homogeneous	80.00% Cellulose	20.00% Non-fibrous (other)	None Detected			
15A-ACT-11 140704921-0038	room 11, 12" acoustic ceiling tile 2 lavered tex	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected			
15B-ACT-11 140704921-0039	room 11, 12" acoustic ceiling tile 2 lavered tex	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected			
15C-ACT-11 140704921-0040	room 11, 12" acoustic ceiling tile 2 lavered tex	Gray Fibrous Homogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected			
16B-VFT-22 140704921-0041	room 22, 12" vinyl floor tile light gray with fade	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected			
16C-VFT-22 140704921-0042	room 22, 12" vinyl floor tile light gray with fade	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected			
17B-VFT-14 140704921-0043	room 14, 12" vinyl floor tile light tan with rand	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected			
17C-VFT-14 140704921-0044	room 14, 12" vinyl floor tile light tan with rand	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected			
18A-ACT-21 140704921-0045	room 21, 12" acoustic ceiling tile long fissure	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected			

Analyst(s)

Brian Walczak (36) Tom Hanes (14)

Mcdee

Rhonda McGee, Laboratory Manager or other approved signatory

Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted. Analysis performed by EMSL Buffato (NVLAP #200056-0), NY ELAP #11606

PLMPointCount-1



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Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			n-Asbestos	<u>Asbestos</u>	
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Туре
18B-ACT-21 140704921-0046	room 21, 12" acoustic ceiling tile lono fissure	Gray Fibrous Homogeneous	40.00% Cellulose 30.00% Glass	30.00% Non-fibrous (other)	None Detected
18C-ACT-21 140704921-0047	room 21, 12" acoustic ceiling tile Iona fissure	Gray Fibrous Homogeneous	30.00% Cellulose 40.00% Min. Wool	30.00% Non-fibrous (other)	None Detected
19B-VFT-29 140704921-0048	room 29, 12" vinyl floor tile brown with random	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
19C-VFT-29 140704921-0049	room 29, 12" vinyl floor tile brown with random	Brown Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
20A-IN-25 140704921-0050	room 25, insulation on pipe straight	Tan/Black Fibrous Homogeneous	70.00% Cellulose	30.00% Non-fibrous (other)	None Detected

Analytical Sensitivity <0.5% Asbestos.

Analyst(s)

Brian Walczak (36) Tom Hanes (14)

Mc Lee

Rhonda McGee, Laboratory Manager or other approved signatory

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PLMPointCount-1

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 10/15/07 10:00 AM

 EMSL Order:
 140705600

 EMSL Proj:
 Analysis Date:

 Analysis Date:
 10/20/2007

 Report Date:
 10/20/2007

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

		Non-Asbestos					Asbestos
Sample	Location	Appearance	%	Fibrous	%	Non-Fibrous	% Туре
22a-in-1 140705600-0001	rm 1 insulation on pipe straight anit-sweat	Gray Fibrous Homogeneous	85.00% (Cellulose	15.00%	Non-fibrous (other)	None Detected
22b-in-1 140705600-0002	rm 1 insulation on pipe straight anit-sweat	Gray Fibrous Homogeneous	90.00% (Cellulose	10.00%	Non-fibrous (other)	None Detected
23a-tc-ex soffit 140705600-0003	exterior soffit texture coat	White Fibrous Homogeneous	<1% (Cellulose	100.00%	Non-fibrous (other)	None Detected
23b-tc-ex soffit 140705600-0004	exterior soffit texture coat	White Non-Fibrous Homogeneous			100.00%	Non-fibrous (other)	None Detected

Analytical Sensitivity <0.5% Asbestos.

Analyst(s)

Brian Walczak (2) Tom Hanes (2)

Mcdee

Rhonda McGee, Laboratory Manager or other approved signatory

Unless otherwise noted, the results in this report have not been blank corrected.Samples received in good condition unless otherwise noted. Analysis performed by EMSL Buffab (NVLAP #200056-0), NY ELAP #11606

PLMPointCount-1

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 Customer PO:
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 10/15/07 10:00 AM

 EMSL Order:
 140705600

 EMSL Proj:
 10/19/2007

 Report Date:
 10/20/2007

Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	LOCATION	APPEARANCE		Matrix ic Acid	ASBESTOS %TYPES	NON-ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS
21a-pl-21 140705600-0005	rm 21 plaster smooth wall	White	18.6	78.1	None Detected		3.3 Non-fibrous (other)
21b-pl-21a 140705600-0006	rm 21a plaster smooth wall	White	25.1	50.9	None Detected		24.1 Non-fibrous (olher)
21c-pi-21 140705600-0007	rm 21 plaster smooth wall	White	17.2	69.3	None Detected		13.5 Non-fibrous (other)

Analytical Sensitivity <0.5% Asbestos.

Analyst(s)

Brian Walczak (3)

C. Lee

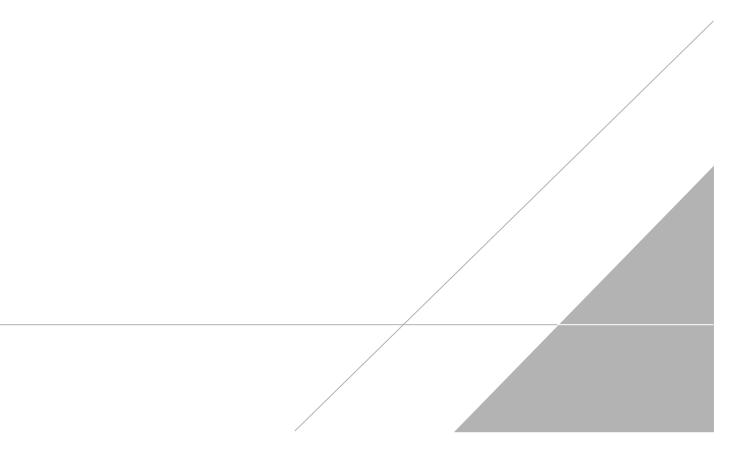
Rhonda McGee, Laboratory Manager or other approved signatory

Disclaimers: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL Analytical Inc. suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results whin requested to separate layer samples. EMSL Analytical Inc. Itability is limited to the cost of sample analysis. Samples received in good condition unless otherwise noted.

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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⁽¹⁾. 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*⁽²⁾. 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

- Acoustical Plaster
- Adhesives
- Asphalt Floor Tile
- Base Flashing
- Blown-in (Loose Fill) Insulation
- Boiler Insulation
- Breaching Insulation
- Caulking/Putties
- Ceiling Tiles and Lay-in Panels
- Cement Pipes
- Cement Siding
- Cement Wallboard
- Construction Mastics (floor tile,
- carpet, ceiling tile, etc.)
- Cooling Towers
- Decorative Plaster
- Ductwork Flexible Fabric Connections
- Electrical Cloth
- Electrical Wiring Insulation
- Elevator Brake Shoes

- Elevator Equipment Panels
- Fire Doors
- Fireproofing Materials
- Flooring Backing
- Heating and Electrical Ducts
- High Temperature Gaskets
- HVAC Duct Insulation
- Joint Compounds
- Pipe Insulation (corrugated air-cell,
- block, etc.)
- Roofing Felt
- Roofing Shingles
- Spackling Compounds
- Sprayed-on Insulation
- Taping Compounds (thermal)
- Textured Paper Products
- Vinyl Floor Tile
- Vinyl Sheet Flooring
- Vinyl Wall Coverings
- 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.



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