

HALTON DISTRICT SCHOOL BOARD

SURVEY OF ASBESTOS- CONTAINING MATERIALS

**WHITE OAKS SECONDARY SCHOOL
NORTH CAMPUS**

1055 MCCRANEY STREET EAST, OAKVILLE, ONTARIO

Updated March 15, 2019

702170-118

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It has a diagonal line running from the bottom left to the top right, and a horizontal line near the bottom, creating a sense of depth and movement.

SURVEY OF ASBESTOS-CONTAINING MATERIALS
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Ada Nguyen, B.Sc.

Industrial Hygienist



Rein Andre, B.A.

Manager, Hazardous Materials and Industrial Hygiene
Group

SURVEY OF ASBESTOS- CONTAINING MATERIALS

WHITE OAKS SECONDARY SCHOOL –
NORTH CAMPUS

1055 McCraney Street East, Oakville,
Ontario

Prepared for:

Halton District School Board

J.W. Singleton Education Center

2050 Guelph Line, Burlington, ON L7P 5A8

Attention: Terry DeMedeiros

Regional Supervisor, Facilities Maintenance

Prepared by:

Arcadis Canada Inc.

121 Granton Drive, Suite 12

Richmond Hill, Ontario L4B 3N4

Tel 905 882 5984

Fax 905 882 8962

Our Ref.:

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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 White Oaks Secondary School – North Campus located at 1055 McCraney Street East, Oakville, Ontario following asbestos remediation associated with the renovation project in June 2017.

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

Item	Type of Material	Size of Area of Homogeneous Material	Minimum Number of Bulk Material Samples to be Collected
1.	Surfacing material, including without limitation material that is applied to surfaces by spraying, by trowelling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 square metres	3
		90 or more square metres, but less than 450 square metres	5
		450 or more square metres	7
2.	Thermal insulation, except as described in Item 3	Any size	3
3.	Thermal insulation patch	Less than 2 linear metres or 0.5 square metres	1
4.	Other material	Any size	3

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

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

Corrective Actions

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

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

2 METHODOLOGY

2.1 Survey

Site inspections were carried out by Arcadis staff in August 2001 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 in October 2011, May 2014 and April 2017. This report has been updated to include information from additional investigations and remediation that took place in 2017.

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 Analytical Inc. and EMSL Canada Inc. (EMSL) 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.

3 SURVEY RESULTS

Arcadis reviewed reports entitled *Updated Survey of Asbestos-Containing Materials, White Oaks Secondary School - North Campus, 1055 McCraney Street East, Oakville, Ontario* dated October 2015 and *Pre-Renovation Designated Substances and Hazardous Materials Survey, White Oaks Secondary School – North Campus, 1055 McCraney Street East, Oakville, Ontario* dated April 21, 2017. Information and 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 friable asbestos-containing materials are present in White Oaks Secondary School – North Campus in the following accessible applications:

- thermal insulation applied to pipe fittings throughout the building;
- spray-applied fireproofing above ceilings in various locations on the first floor throughout the building; and
- spray-applied fireproofing on steel decking and beams inside Mechanical Shafts A and B on the second floor of the building.

Asbestos-containing thermal insulation applied to pipe fittings is a grey-coloured cementitious material.

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

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

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

- vinyl floor tiles (12" x 12") in several areas throughout the facility;
- mastic associated with asbestos-containing vinyl floor tiles in Room 136;
- floor levelling compound associated with asbestos-containing vinyl floor tiles in Room 136;
- drywall joint compound applied to various drywall applications in several areas throughout the building;
- cement countertop in Room 120C;
- cement board in a chemical storage cabinet in Room 208;
- cement piping in various areas throughout the building; and
- duct seal (red-coloured) applied to connection points on duct work in Corridors 114, 114D, 115, 115A, 116, 116A and 129.

During the course of the survey work in select areas of the building, duct work was only accessed in Corridors 114, 114D, 115, 115A, 116, 116A and 129, and asbestos-containing duct seal were observed. Asbestos-containing duct seal may also be present on duct work in all other areas throughout the building.

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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 N°	Location	Description	Asbestos Content
1A-VFT-134	Room 134	12" vinyl floor tile, brown w/ grey streaks	6.2% chrysotile⁽³⁾
3A-JC-134	Room 134	Drywall joint compound	3.3% chrysotile⁽³⁾
4A-TC-134A	Room 134A	Texture coat, over plaster	None detected ⁽³⁾
4B-TC-134B	Room 134B	Texture coat, over plaster	None detected ⁽³⁾
4C-TC-104A	Room 104A	Texture coat, over plaster	None detected ⁽³⁾
5A-PL-133	Room 133	Plaster, smooth	None detected ⁽³⁾
5B-PL-132	Room 132	Plaster, smooth	None detected ⁽³⁾
5C-PL-120C	Room 120C	Plaster, smooth	None detected ⁽³⁾
5D-PL-135	Room 135	Plaster, smooth	None detected ⁽³⁾
5E-PL-144	Room 144	Plaster, smooth	None detected ⁽³⁾
5F-PL-146E	Room 146E	Plaster, smooth	None detected ⁽³⁾
6A-VFT-126	Room 126	12" vinyl floor tile, tan w/ black dots	None detected ⁽³⁾
6B-VFT-126	Room 126	12" vinyl floor tile, tan w/ black dots	None detected ⁽³⁾
6C-VFT-126	Room 126	12" vinyl floor tile, tan w/ black dots	None detected ⁽³⁾
8A-PL-121	Room 121	Parging coat on ceiling	None detected ⁽³⁾
8B-PL-121	Room 121	Parging coat on ceiling	None detected ⁽³⁾
8C-PL-121	Room 121	Parging coat on ceiling	None detected ⁽³⁾
8D-PL-119	Room 119	Parging coat on ceiling	None detected ⁽³⁾
8E-PL-119	Room 119	Parging coat on ceiling	None detected ⁽³⁾
8F-PL-101	Room 101	Parging coat on ceiling	None detected ⁽³⁾
8G-PL-101	Room 101	Parging coat on ceiling	None detected ⁽³⁾

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Sample N°	Location	Description	Asbestos Content
9A-CP-120C	Room 120C	Cement board countertop	30% chrysotile⁽³⁾
10A-PL-120A	Room 120A	Plaster, textured, on columns	None detected ⁽³⁾
10B-PL-120A	Room 120A	Plaster, textured, on columns	None detected ⁽³⁾
10C-PL-117	Room 117	Plaster, textured, on columns	None detected ⁽³⁾
10D-PL-101	Room 101	Plaster, textured, on columns	None detected ⁽³⁾
10E-PL-145D	Room 145D	Plaster, textured, on columns	None detected ⁽³⁾
11A-VFT-120A	Room 120A	12" vinyl floor tile, white w/ black streaks	None detected ⁽³⁾
11B-VFT-120A	Room 120A	12" vinyl floor tile, white w/ black streaks	None detected ⁽³⁾
11C-VFT-209	Room 209	12" vinyl floor tile, white w/ black streaks	None detected ⁽³⁾
13A-VFT-103	Room 103	12" vinyl floor tile, white w/ red-brown streaks	None detected ⁽³⁾
13B-VFT-103	Room 103	12" vinyl floor tile, white w/ red-brown streaks	None detected ⁽³⁾
13C-VFT-103	Room 103	12" vinyl floor tile, white w/ red-brown streaks	None detected ⁽³⁾
14A-VSF-118A	Room 118A	Vinyl sheet flooring, brown w/ jute backing	None detected ⁽³⁾
14B-VSF-118A	Room 118A	Vinyl sheet flooring, brown w/ jute backing	None detected ⁽³⁾
14C-VSF-118A	Room 118A	Vinyl sheet flooring, brown w/ jute backing	None detected ⁽³⁾
15A-SCT-103	Room 103	2'x4' suspended ceiling tile, wide fissures in 2', grey back	None detected ⁽³⁾
15B-SCT-103	Room 103	2'x4' suspended ceiling tile, wide fissures in 2', grey back	None detected ⁽³⁾
15C-SCT-103	Room 103	2'x4' suspended ceiling tile, wide fissures in 2', grey back	None detected ⁽³⁾
18A-VFT-119	Room 119	12" vinyl floor tile, white w/ grey specks	None detected ⁽³⁾
18B-VFT-119	Room 119	12" vinyl floor tile, white w/ grey specks	None detected ⁽³⁾
18C-VFT-119	Room 119	12" vinyl floor tile, white w/ grey specks	None detected ⁽³⁾
19A-VFT-115A	Room 115A	12" vinyl floor tile, white w/ white & grey specks	None detected ⁽³⁾

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Sample N°	Location	Description	Asbestos Content
19B-VFT-115A	Room 115A	12" vinyl floor tile, white w/ white & grey specks	None detected ⁽³⁾
19C-VFT-115A	Room 115A	12" vinyl floor tile, white w/ white & grey specks	None detected ⁽³⁾
20A-VFT-104	Room 104	12" vinyl floor tile, beige w/ beige specks	None detected ⁽³⁾
20B-VFT-104	Room 104	12" vinyl floor tile, beige w/ beige specks	None detected ⁽³⁾
20C-VFT-104	Room 104	12" vinyl floor tile, beige w/ beige specks	None detected ⁽³⁾
21A-SCT-115	Room 115	2'x4' suspended ceiling tile, chicken feet pattern	None detected ⁽³⁾
21B-SCT-115	Room 115	2'x4' suspended ceiling tile, chicken feet pattern	None detected ⁽³⁾
21C-SCT-115	Room 115	2'x4' suspended ceiling tile, chicken feet pattern	None detected ⁽³⁾
22A-OT-102	Room 102	Brick-like material on welding tables	None detected ⁽³⁾
23A-SCT-114	Room 114	2'x4' suspended ceiling tile, random fissures, floral pattern	None detected ⁽³⁾
23B-SCT-114	Room 114	2'x4' suspended ceiling tile, random fissures, floral pattern	None detected ⁽³⁾
23C-SCT-114	Room 114	2'x4' suspended ceiling tile, random fissures, floral pattern	None detected ⁽³⁾
24A-FP-123	Room 123	Fireproofing, green fibrous	None detected ⁽³⁾
25A-VFT-128	Room 128	12" vinyl floor tile, tan w/ small light brown streaks	None detected ⁽³⁾
25B-VFT-128	Room 128	12" vinyl floor tile, tan w/ small light brown streaks	None detected ⁽³⁾
25C-VFT-128	Room 128	12" vinyl floor tile, tan w/ small light brown streaks	None detected ⁽³⁾
26A-FP-114	Room 114	Fireproofing, grey cement	30% chrysotile⁽³⁾
27A-VFT-140	Room 140	12" vinyl floor tile, white w/ brown specks	None detected ⁽³⁾
27B-VFT-140	Room 140	12" vinyl floor tile, white w/ brown specks	None detected ⁽³⁾
27C-VFT-140	Room 140	12" vinyl floor tile, white w/ brown specks	None detected ⁽³⁾
28A-VFT-214	Room 214	12" vinyl floor tile, white w/ black specks	None detected ⁽³⁾
29A-FP-214	Room 214	Fireproofing, blue fibrous	None detected ⁽³⁾

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Sample N°	Location	Description	Asbestos Content
47671-1	Area 219 Mechanical Room	Small re-circulating pipe fitting insulation	None detected ⁽³⁾
47671-2	Area 219 Mechanical Room	Medium hot water supply pipe fitting insulation	80% chrysotile⁽³⁾
47671-3	Area 219 Mechanical Room	Large hot water supply pipe fitting insulation	67% chrysotile⁽³⁾
47671-4	Area 219B Mechanical Room	Domestic water pipe fitting insulation	67% chrysotile⁽³⁾
47671-5	Area 219A Mechanical Room	Pipe straight insulation	None detected ⁽³⁾
47671-6	Area 101	Drywall joint compound	0.77% chrysotile⁽³⁾
47671-7	Area 132	Water meter insulation	None detected ⁽³⁾
47671-8	Area 118	Cement board	5.3% chrysotile⁽³⁾
47671-9	Area 104A	Ceiling plaster	None detected ⁽³⁾
47671-10	Area 103	2' x 4' ceiling tile	None detected ⁽³⁾
47671-11	Area 115 Corridor	2' x 4' ceiling tile	None detected ⁽³⁾
47671-12	Area 108	2' x 4' ceiling tile	None detected ⁽³⁾
47671-13	Area 124	2' x 4' ceiling tile	None detected ⁽³⁾
47671-14	Area 202	Fireproofing	None detected ⁽³⁾
47671-15	Area 105	Fireproofing	8.2% chrysotile⁽³⁾
47671-16	Area 219B	Fireproofing on vertical structural members	None detected ⁽³⁾
47671-17	Area 115A Corridor	Fireproofing	5.6% chrysotile^(2,3)
47671-18	Area 116A Corridor	Fireproofing	2.1% chrysotile^(2,3)
47671-19	Area 129 Corridor	Fireproofing	3.4% chrysotile^(2,3)
47671-20	Area 102A	Fireproofing	None detected ⁽³⁾
47671-21	Area 123 Corridor	Fireproofing	None detected ⁽³⁾
47671-22	Area 202	2' x 4' ceiling tile	None detected ⁽³⁾
208-CB-1A	Room 208	Cement Board	3.4% chrysotile⁽³⁾

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Sample N°	Location	Description	Asbestos Content
1-A	Room 100	Lightweight concrete (“siporex”) roof decking	None Detected (PLM) ⁽³⁾ None Detected (TEM) ⁽³⁾
1-B	Room 100	Lightweight concrete (“siporex”) roof decking	None detected ⁽³⁾
1-C	Room 121	Lightweight concrete (“siporex”) roof decking	None detected ⁽³⁾
2-A	Corridor C123	Duct seal on ducting – red coloured	<0.25% chrysotile (PLM) ^(1,3) <0.25% chrysotile (TEM) ^(1,3)
2-B	Corridor C123	Duct seal on ducting – red coloured	1.0% chrysotile ⁽³⁾
3	Corridor C129 East	New fireproofing on beams – grey coloured	None detected ⁽³⁾
4	Stair 131 (221 Middle Landing)	Compressed fireproofing on back of plaster beam enclosure	40% chrysotile ^(2,3)
1-A	Room 138	Vinyl baseboard – brown colour	None detected (TEM) ⁽⁴⁾
1-B	Room 137	Vinyl baseboard – brown colour	None detected ⁽⁴⁾
1-C	Room 138C	Vinyl baseboard – brown colour	None detected ⁽⁴⁾
2-A	Room 138	Mastic on vinyl baseboard – dark brown colour	None detected ⁽⁴⁾
2-B	Room 137	Mastic on vinyl baseboard – dark brown colour	None detected ⁽⁴⁾
2-C	Room 138C	Mastic on vinyl baseboard – dark brown colour	None detected ⁽⁴⁾
3-A	Room 138	Mastic on vinyl floor tile – black colour	None detected ⁽⁴⁾
3-B	Room 137	Mastic on vinyl floor tile – black colour	None detected ⁽⁴⁾
3-C	Room 138C	Mastic on vinyl floor tile – black colour	<1% chrysotile ⁽⁴⁾
4-A	Room 138	Floor levelling compound – white colour	7% chrysotile ^(2,4)
5-A	Room 137	Mortar in concrete block – grey colour	None detected ⁽⁴⁾
5-B	Room 138C	Mortar in concrete block – grey colour	None detected ⁽⁴⁾
5-C	Room 129	Mortar in concrete block – grey colour	None detected ⁽⁴⁾
6-A	Room 129	Mortar in brick – dark grey	None detected ⁽⁴⁾
6-B	Room 129	Mortar in brick – dark grey	None detected ⁽⁴⁾

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Sample N°	Location	Description	Asbestos Content
6-C	Room 129	Mortar in brick – dark grey	None detected ⁽⁴⁾
7-A	Room 138	Caulking on door frame – brown colour	None detected ⁽⁴⁾
7-B	Room 137	Caulking on door frame – brown colour	None detected ⁽⁴⁾
7-C	Room 138C	Caulking on door frame – brown colour	None detected ⁽⁴⁾
8-A	Room 138	Paint on concrete block wall – cream colour	None detected ⁽⁴⁾
8-B	Room 137	Paint on concrete block wall – cream colour	None detected ⁽⁴⁾
8-C	Room 139D	Paint on concrete block wall – cream colour	None detected ⁽⁴⁾

NOTES:

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

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

(3) Bulk sample results were obtained from a report prepared by DCS (now Arcadis) for the HDSB entitled *Updated Survey of Asbestos-Containing Materials, White Oaks Secondary School - North Campus, 1055 McCraney Street East, Oakville, Ontario* dated October 2015.

(4) Bulk samples results were obtained from a report prepared by Arcadis for the HDSB entitled *Pre-Renovation Designated Substances and Hazardous Materials Survey, White Oaks Secondary School – North Campus – 1055 McCraney Street East, Oakville, Ontario*, dated April 21, 2017.

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

< = less than.

Chrysotile = Chrysotile asbestos.

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Table 3.2: Summary of Asbestos-Containing Materials

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	100	Drywall joint compound	3.3% chrysotile	Upper walls	10-50 ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Below ceiling	>20 fittings	Friable	G	
		Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	g	
1	100A							Area not accessible at the time of our survey.
1	101	Drywall joint compound	3.3% chrysotile	Upper walls	10-50 ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Below ceiling	>20 fittings	Friable	G	
1	101A							NACMO
1	102	Pipe fitting insulation	67% chrysotile	Below ceiling	>20 fittings	Friable	G	
1	102A							Area not accessible at the time of our survey.
1	102B	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
1	102C							Area not accessible at the time of our survey.
1	102D	Vinyl floor tile (12" x 12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	
1	103	Drywall joint compound	3.3% chrysotile	75% of walls & bulkhead	10-50 m ²	Non-friable	G	

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Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	104	Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	G	
1	104A							NACMO
1	104B	Vinyl floor tile (12" x 12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	
1	104C							NACMO
1	104D							NACMO
1	104E	Vinyl floor tile (12" x 12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	
1	104F							NACMO
1	104G							Area not accessible at the time of our survey.
1	105	Vinyl floor tile (12" x 12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Drywall joint compound	3.3% chrysotile	All walls	10-50 m ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Above ceiling	<5 fittings	Friable	G	
		Fireproofing	30 chrysotile	Above ceiling	10-50 m ²	Friable	P	
1	105A	Fireproofing	30 chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Below ceiling	<5 fittings	Friable	G	
		Drywall joint compound	3.3% chrysotile	All ceiling	50-100 m ²	Non-friable	G	
1	106	Vinyl floor tile (12"x12")	6.2% chrysotile	Below carpet	10-50 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	

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Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	109	Pipe fitting insulation	67% chrysotile	Below ceiling	10-20 fittings	Friable	G	
1	110	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Limited access to fireproofing due to solid ceiling.
1	111	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Limited access to fireproofing due to solid ceiling.
1	112	Vinyl floor tile (12"x12")	6.2% chrysotile	Below carpet	<10 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
1	113	Fireproofing	30 chrysotile	Assumed above ceiling	NA	Friable	NA	Area not accessible at the time of the survey.
1	114	Duct seal	1.0% chrysotile	Above ceiling	<10 m ²	Non-friable	G	
1	114A							NACMO
1	114B	Pipe fitting insulation	67% chrysotile	Below ceiling	<5 fittings	Friable	G	
1	114C							NACMO Drywall ceiling installed in 2014.
1	114D	Duct seal	1.0% chrysotile	Above ceiling	<10 m ²	Non-friable	G	
1	115	Duct seal	1.0% chrysotile	Above ceiling on duct work	<10 m ²	Non-Friable	G	
1	115A	Duct seal	1.0% chrysotile	Above ceiling on duct work	<10 m ²	Non-Friable	G	

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	116	Duct seal	1.0% chrysotile	Above ceiling on duct work	<10 m ²	Non-Friable	G	
		Pipe fitting insulation	67% chrysotile	Below ceiling	5-10 fittings	Friable	G	
1	116A	Duct seal	1.0% chrysotile	Above ceiling on duct work	<10 m ²	Non-Friable	G	
1	117	Drywall joint compound	3.3% chrysotile	Upper walls	<10 m ²	Non-friable	G	
1	118	Drywall joint compound	3.3% chrysotile	Upper walls & partition walls	<10 m ²	Non-friable	G	
		Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	G	
1	119	Drywall joint compound	3.3% chrysotile	80% of walls	<10 m ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Above & below ceiling	10-20 fittings	Friable	G	
1	119A	Drywall joint compound	3.3% chrysotile	One wall	<10 m ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Below ceiling	10-20 fittings	Friable	G	
1	120	Drywall joint compound	3.3% chrysotile	Upper walls	10-50 m ²	Non-friable	G	
1	120A	Drywall joint compound	3.3% chrysotile	Upper walls	<10 m ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Below ceiling	5-10 fittings	Friable	G	
		Cement piping	Assumed asbestos	Above and below ceiling	3-15 m	Non-friable		

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	120B	Drywall joint compound	3.3% chrysotile	One wall	<10 m ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Below ceiling	10-20 fittings	Friable	G	
1	120C	Pipe fitting insulation	67% chrysotile	Below ceiling	10-20 fittings	Friable	G	
		Cement Countertop	30% chrysotile	Countertop	<10 m ²	Non-friable	G	
1	121	Drywall joint compound	3.3% chrysotile	Upper walls	10-50 m ²	Non-friable	G	
1	122	Drywall joint compound	3.3% chrysotile	All ceiling & partition wall	>100 m ²	Non-friable	G	
1	123	Drywall joint compound	3.3% chrysotile	Upper walls	<10 m ²	Non-friable	G	
1	124							NACMO
1	124A							NACMO
1	125	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Limited access to fireproofing due to solid ceiling.
1	126							NACMO
1	127	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
1	127A	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
1	127B	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Limited access to fireproofing due to solid ceiling
1	128	Vinyl floor tile (12"x12")	6.2% chrysotile	90% flooring	50-100 m ²	Non-friable	G	

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	128B	Fireproofing	30% chrysotile	Above ceiling	<10 m ²	Friable	P	Limited access to fireproofing due to solid ceiling.
1	129	Drywall joint compound	3.3% chrysotile	Walls above doors	10-50 m ²	Non-friable	G	
		Duct seal	1.0% chrysotile	Above ceiling on duct work	<10 m ²	Non-friable	G	
1	130	Fireproofing	30% chrysotile	Above ceiling on second floor roof decking and beams inside mechanical shaft	<10 m ²	Friable	G	See Mechanical Shaft 220B on the second floor on the attached floor plan. Drywall ceilings were installed in 2014.
1	131	Fireproofing	30% chrysotile	Above ceiling on second floor roof decking and beams inside mechanical shaft	10-50 m ²	Friable	G	See Mechanical Shaft 221B on the second floor on the attached floor plan. Drywall ceilings were installed in 2014.
1	132	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Below ceiling	5-10 fittings	Friable	G	
		Cement piping	Assumed asbestos	Below ceiling	<3 m	Non-friable	G	
		Cement piping	Assumed asbestos	Assumed above ceiling	NA	Non-friable	NA	
1	133							NACMO

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	134	Vinyl floor tile (12"x12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	
		Drywall joint compound	3.3% chrysotile	At closet	<10 m ²	Non-friable	G	
		Pipe fitting insulation	67% chrysotile	Above ceiling	10-20 fittings	Friable	G	
1	134A	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
1	134B	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
1	134C	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Vinyl floor tile (12"x12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	
1	135	Vinyl floor tile (12"x12")	6.2% chrysotile	At entrances	<10 m ²	Non-friable	G	Ceiling too high to assess.
		Drywall joint compound	3.3% chrysotile	Upper walls & bulkhead	10-50 m ²	Non-friable	G	
		Fireproofing	30% chrysotile	Assumed above ceiling	10-50 m ²	Friable	P	
		Cement piping	Assumed asbestos	Above & below ceiling	15-30 m	Non-friable	G	
1	135A	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	135B	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
1	136	Vinyl floor tile (12"x12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Pipe fitting insulation	67% chrysotile	Above ceiling	<5 fittings	Friable	G	
		Mastic	<1% chrysotile	All flooring	50-100 m ²	Non-friable	G	
		Floor levelling compound	7% chrysotile	All flooring	50-100 m ²	Non-friable	G	
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
1	137							NACMO
1	137A							NACMO
1	138							NACMO
1	138A							NACMO
1	138B							NACMO
1	138C							NACMO
1	139	Vinyl floor tile (12"x12)	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
		Cement piping	Assumed asbestos	Above ceiling	3-15 m	Non-friable	G	
1	139A							NACMO
1	139C							NACMO

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	139D							NACMO
1	139E							NACMO
1	140	Drywall joint compound	3.3% chrysotile	Above door entrance	<10 m ²	Non-friable	G	
1	140B							NACMO
1	140D							NACMO
1	141	Vinyl floor tile (12"x12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
1	142	Drywall joint compound	3.3% chrysotile	30% of walls	10-50 m ²	Non-friable	G	
1	143	Fireproofing	30% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Pipe fitting insulation	67% chrysotile	Assumed above ceiling	NA	Friable	NA	
		Drywall joint compound	3.3% chrysotile	All ceiling	<10	Non-friable	G	
		Cement piping	Assumed asbestos	Above & below ceiling	3-15 m	Non-friable	G	
1	144A	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Limited access to fireproofing dur to solid ceiling.
1	144W	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Limited access to fireproofing dur to solid ceiling.
1	145	Vinyl floor tile (12"x12")	6.2% chrysotile	All flooring	10-50 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Drywall joint compound	3.3% chrysotile	Above entrance door	<10 m ²	Non-friable	G	
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	145A	Vinyl floor tile (12"x12") Fireproofing	6.2% chrysotile 30% chrysotile	All flooring Above ceiling	10-50 m ² 10-50 m ²	Non-friable Friable	G P	Fireproofing debris observed on top of ceiling tiles.
1	145B	Vinyl floor tile (12"x12") Fireproofing	6.2% chrysotile 30% chrysotile	All flooring Above ceiling	10-50 m ² 10-50 m ²	Non-friable Friable	G P	Fireproofing debris observed on top of ceiling tiles.
1	145C	Vinyl floor tile (12"x12") Fireproofing	6.2% chrysotile 30% chrysotile	All flooring Above ceiling	10-50 m ² 10-50 m ²	Non-friable Friable	G P	Fireproofing debris observed on top of ceiling tiles.
1	145D	Vinyl floor tile (12"x12") Fireproofing	6.2% chrysotile 30% chrysotile	All flooring Above ceiling	10-50 m ² 10-50 m ²	Non-friable Friable	G P	Fireproofing debris observed on top of ceiling tiles.
1	146	Vinyl floor tile (12"x12") Drywall joint compound Fireproofing	6.2% chrysotile 3.3% chrysotile 30% chrysotile	All flooring Above entrance door Above ceiling	10-50 m ² <10 m ² 10-50 m ²	Non-friable Non-friable Friable	G G P	Fireproofing debris observed on top of ceiling tiles.
1	146A	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Fireproofing debris observed on top of ceiling tiles. Asbestos flooring may be present below carpet.

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
1	146B	Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	Fireproofing debris observed on top of ceiling tiles. Asbestos flooring may be present below carpet.
1	146C	Fireproofing	30% chrysotile	Above ceiling	NA	Friable	NA	Fireproofing debris observed on top of ceiling tiles. Asbestos flooring may be present below carpet.
		Pipe fitting insulation	67% chrysotile	Above ceiling	NA	Friable	NA	
		Drywall joint compound	3.3% chrysotile	All walls	10-50 m ²	Non-friable	G	
1	146D	Vinyl floor tile (12"x12")	6.2% chrysotile	All flooring	50-100 m ²	Non-friable	G	Fireproofing debris observed on top of ceiling tiles.
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
1	146E	Pipe fitting insulation	67% chrysotile	Above ceiling	5-10 fittings	Friable	G	
1	146F	Pipe fitting insulation	67% chrysotile	Above ceiling	<5 fittings	Friable	G	Limited access to fireproofing due to solid ceiling.
		Fireproofing	30% chrysotile	Above ceiling	10-50 m ²	Friable	P	
2	200	Drywall joint compound	3.3% chrysotile	Partition wall	10-50 m ²	Non-friable	G	
2	200A							NACMO
2	201							NACMO
2	201A							NACMO
2	202							NACMO

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
2	202A							Area not accessible at the time of our survey.
2	202B							NACMO
2	203							NACMO
2	203A							NACMO
2	204							NACMO
2	205	Drywall joint compound	3.3% chrysotile	Wall divider	<10 m ²	Non-friable	G	
2	206	Drywall joint compound	3.3% chrysotile	All ceiling	<10 m ²	Non-friable	G	
2	206A	Drywall joint compound	3.3% chrysotile	All ceiling	<10 m ²	Non-friable	G	
2	207							NACMO
2	208	Cement board	40% chrysotile	Chemical storage cabinet	<10 m ²	Non-friable	G	
2	209							NACMO
2	210							NACMO
2	211							NACMO
2	212							NACMO
2	213							NACMO

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
2	214	Drywall joint compound	3.3% chrysotile	Mechanical enclosures, above doors, walls above ceilings and enclosures on light fixtures above ceilings	10-50 m ²	Non-friable	G	
2	215							Area not accessible at the time of our survey.
2	216	Drywall joint compound	3.3% chrysotile	All ceiling	<10 m ²	Non-friable	G	
2	217							NACMO
2	218	Drywall joint compound	3.3% chrysotile	All ceiling	<10 m ²	Non-friable	G	
2	219	Pipe fitting insulation	67-80% chrysotile	Below ceiling	>20 fittings	Friable	P	
		Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	G	
2	219A	Pipe fitting insulation	67-80% chrysotile	Below ceiling	>20 fittings	Friable	G	
		Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	G	
2	219B	Pipe fitting insulation	67-80% chrysotile	Below ceiling	>20 fittings	Friable	G	
		Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	G	
2	219C	Pipe fitting insulation	67-80% chrysotile	Below ceiling	>20 fittings	Friable	G	
		Cement piping	Assumed asbestos	Below ceiling	15-30 m	Non-friable	G	
2	219D							NACMO

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

Level	Room	Material	Asbestos Content	Location Within Space	Estimated Quantity	Friable or Non-Friable	Condition	Comments
2	220							NACMO New fireproofing and drywall ceilings installed in 2014.
2	220A							NACMO New fireproofing and drywall ceilings installed in 2014.
2	220B	Fireproofing	30% chrysotile	On corrugated metal roof decking and beams inside mechanical chase	10-50 m ²	Friable	G	
2	221							NACMO New fireproofing and drywall ceilings installed in 2014.
2	221A							NACMO New fireproofing and drywall ceilings installed in 2014.
2	221B	Fireproofing	30% chrysotile	On corrugated metal roof decking and beams inside mechanical chase	10-50 m ²	Friable	G	
2	222	Drywall joint compound	3.3% chrysotile	All ceiling	10-50 m ²	Non-friable	G	
2	222A	Drywall joint compound	3.3% chrysotile	All ceiling	<10 m ²	Non-friable	G	

NOTES:

SURVEY OF ASBESTOS-CONTAINING MATERIALS
WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

< = Less than.
> = Greater than.

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

NACMO: No Asbestos-Containing Materials Observed.

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

4 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.

SURVEY OF ASBESTOS-CONTAINING MATERIALS WHITE OAKS SECONDARY SCHOOL – NORTH CAMPUS

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.

5 USE AND LIMITATIONS OF THIS REPORT

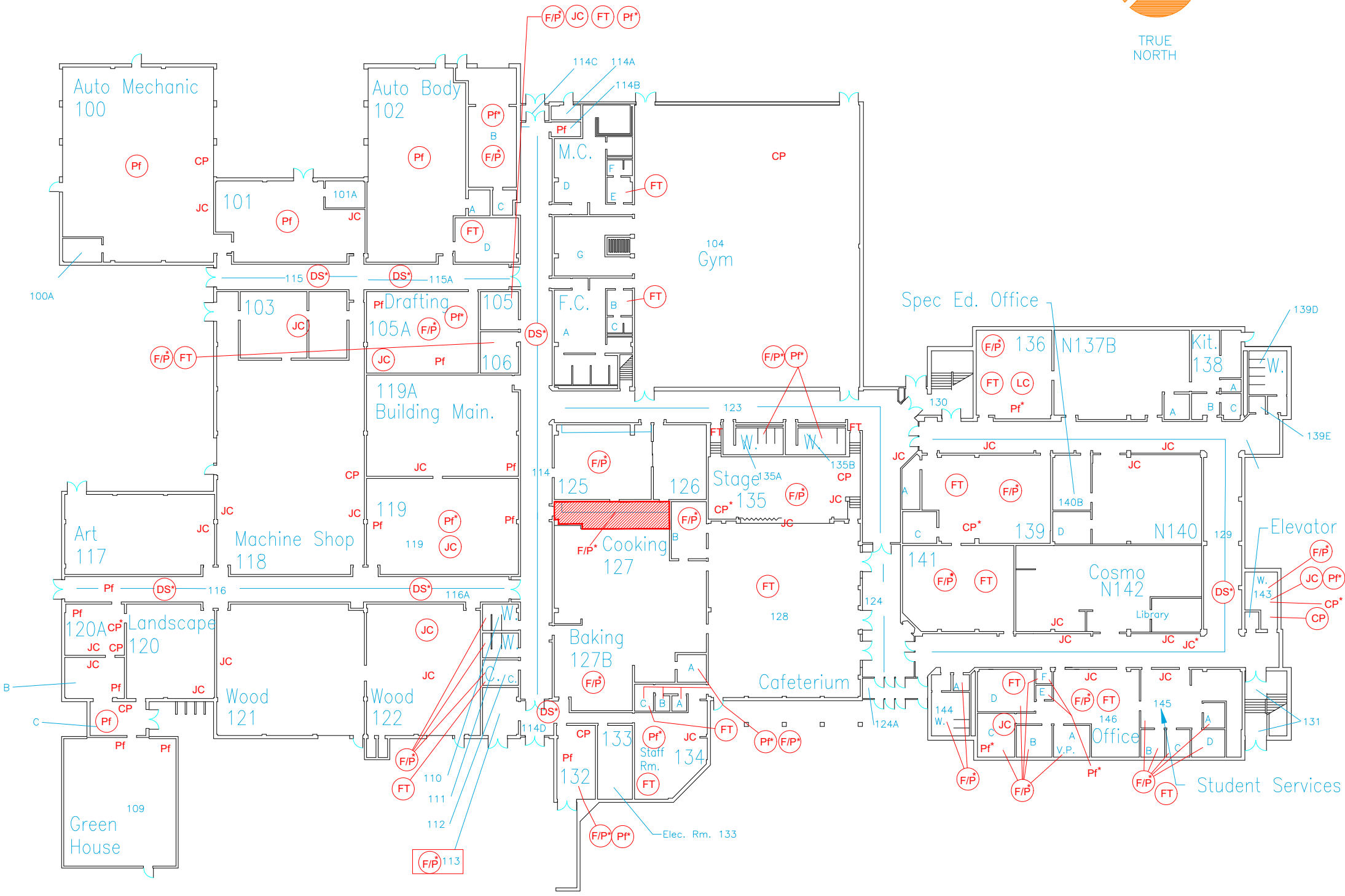
This report, prepared for the Halton District School Board, does not provide certification or warranty, expressed or implied, that the investigation conducted by Arcadis identified all asbestos-containing materials present in the subject facilities. The work undertaken by Arcadis was directed to provide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

APPENDIX A

Floor Plans





- LEGEND:**
- 128 FUNCTIONAL SPACE
 - THROUGHOUT FUNCTIONAL SPACE
 - * ABOVE CEILING ASSEMBLY
 - Pf ASBESTOS ON PIPE FITTINGS ONLY (FRIABLE)
 - F/P ASBESTOS FIREPROOFING (FRIABLE)
 - JC ASBESTOS DRYWALL JOINT COMPOUND (NON-FRIABLE)
 - FT ASBESTOS FLOORING (NON-FRIABLE)
 - CP ASBESTOS CEMENT PRODUCT (NON-FRIABLE)
 - DS ASBESTOS DUCT SEAL (NON-FRIABLE)
 - LC ASBESTOS FLOOR LEVELLING COMPOUND AND MASTIC (NON-FRIABLE)

NOTE:

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



HALTON DISTRICT SCHOOL BOARD

UPDATED SURVEY OF ASBESTOS-CONTAINING MATERIALS

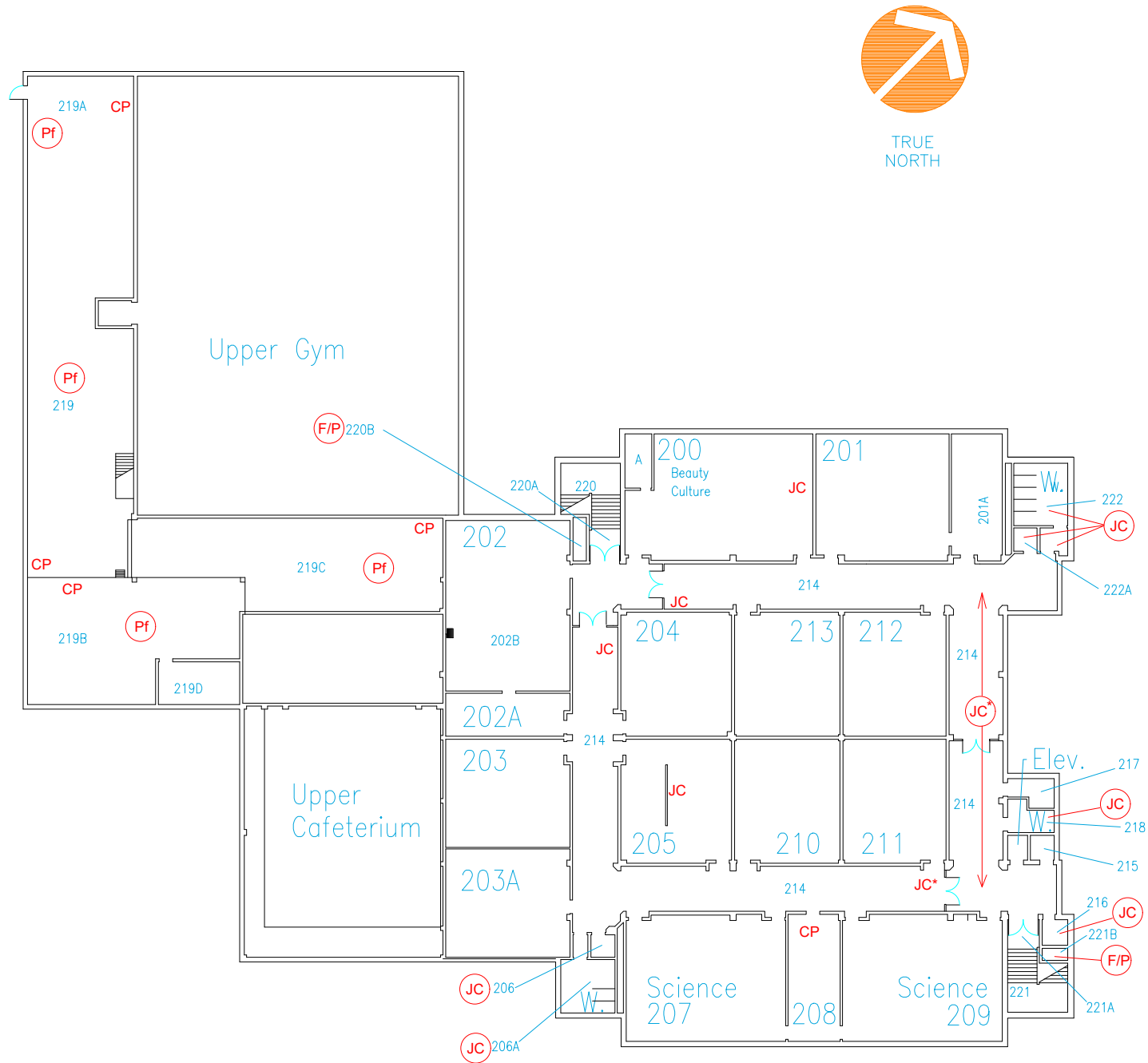
WHITE OAKS NORTH HIGH SCHOOL
1330 MONTCLAIR DRIVE, OAKVILLE, ON

LOCATIONS OF ASBESTOS-CONTAINING MATERIALS

FIRST FLOOR PLAN

Drawn By: A.N.	Approved By: R.A.	Project No: 702170-118
Date: MAR. 2019	Scale: AS SHOWN	Drawing No: 702170-118-1

Z:\702000 Series\702170-000 Updated Survey 2017\702170-118 White Oaks North H.S....dwg LAYOUT: 702170-118 WHITE OAKS NORTH 2ND FL PLOTTED: 4/9/2018 3:09 PM BY: VAN DEN BROEK, JOYCE



LEGEND:

- 219 FUNCTIONAL SPACE
- THROUGHOUT FUNCTIONAL SPACE
- * ABOVE CEILING ASSEMBLY
- Pf ASBESTOS ON PIPE FITTINGS ONLY (FRIABLE)
- F/P ASBESTOS FIREPROOFING (FRIABLE)
- JC ASBESTOS DRYWALL JOINT COMPOUND (NON-FRIABLE)
- FT ASBESTOS FLOORING (NON-FRIABLE)
- CP ASBESTOS CEMENT PRODUCT (NON-FRIABLE)

NOTE:

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



HALTON DISTRICT SCHOOL BOARD

UPDATED SURVEY OF
ASBESTOS-CONTAINING MATERIALS

WHITE OAKS NORTH HIGH SCHOOL
1330 MONTCLAIR DRIVE, OAKVILLE, ON

LOCATIONS OF
ASBESTOS-CONTAINING MATERIALS

SECOND FLOOR PLAN

Drawn By: A.N.	Approved By: R.A	Project No: 702170-118
Date: MAR. 2019	Scale: AS SHOWN	Drawing No: 702170-118-2

APPENDIX B

Laboratory Reports



**EMSL Canada Inc.**

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8

Phone: 289-997-4602 Fax: (289) 997-4607 Web: <http://www.emsl.com> Email: torontolab@emsl.com

Attn: Ada Nguyen
 Decommissioning Consulting Services Ltd.
 121 Granton Drive
 Unit 11
 Richmond Hill, ON L4B 3N4
Fax: (905) 882-8962 **Phone:** (905) 882-5984
Proj: WHITE OAKS S.S NORTH

EMSL Order: 551101288
Customer ID: 55DCSL97
Collected:
Received: 5/03/2011

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

Client Sample ID: 1A-VFT-134 **Lab Sample ID:** 551101288-0001
Sample Description: ROOM 134/12" VINYL FLOOR TILE, BROWN W/ GREY STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Various /Beige	0.0%	93.8%	6.2% Chrysotile	

Client Sample ID: 1B-VFT-112 **Lab Sample ID:** 551101288-0002
Sample Description: ROOM 112/12" VINYL FLOOR TILE, BROWN W/ GREY STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011				Positive Stop (Not Analyzed)	

Client Sample ID: 1C-VFT-105 **Lab Sample ID:** 551101288-0003
Sample Description: ROOM 105/12" VINYL FLOOR TILE, BROWN W/ GREY STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011				Positive Stop (Not Analyzed)	

Client Sample ID: 3A-JC-134 **Lab Sample ID:** 551101288-0004
Sample Description: ROOM 134/ DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Tan /Various	0.0%	96.7%	3.3% Chrysotile	

Client Sample ID: 3B-JC-118 **Lab Sample ID:** 551101288-0005
Sample Description: ROOM 118/ DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011				Positive Stop (Not Analyzed)	

Client Sample ID: 3C-JC-101 **Lab Sample ID:** 551101288-0006
Sample Description: ROOM 101/ DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011				Positive Stop (Not Analyzed)	

Client Sample ID: 3D-JC-200 **Lab Sample ID:** 551101288-0007
Sample Description: ROOM 200/ DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011				Positive Stop (Not Analyzed)	

Client Sample ID: 3E-JC-205 **Lab Sample ID:** 551101288-0008
Sample Description: ROOM 205/ DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011				Positive Stop (Not Analyzed)	



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Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 4A-TC-134A Lab Sample ID: 551101288-0009
Sample Description: 4A-TC-134A/TEXTURE COAT, OVER PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /Tan /Various	0.0%	100%	None Detected	SUGGEST TEM

Client Sample ID: 4B-TC-134B Lab Sample ID: 551101288-0010
Sample Description: 4B-TC-134B/TEXTURE COAT, OVER PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /Tan /Various	0.0%	100%	None Detected	

Client Sample ID: 4C-TC-104A Lab Sample ID: 551101288-0011
Sample Description: ROOM 104A/TEXTURE COAT, OVER PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray/White	0.0%	100%	None Detected	

Client Sample ID: 5A-PL-133 Lab Sample ID: 551101288-0012
Sample Description: ROOM 133/PLASTER, SMOOTH

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /Tan /White	0.0%	100%	None Detected	

Client Sample ID: 5B-PL-133 Lab Sample ID: 551101288-0013
Sample Description: ROOM 133/PLASTER, SMOOTH

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /Tan /White	0.0%	100%	None Detected	

Client Sample ID: 5C-PL-133 Lab Sample ID: 551101288-0014
Sample Description: ROOM 133/PLASTER, SMOOTH

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /Tan /White	0.0%	100%	None Detected	

Client Sample ID: 5D-PL-133 Lab Sample ID: 551101288-0015
Sample Description: ROOM 133/PLASTER, SMOOTH

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /White /Various	0.0%	100%	None Detected	

Client Sample ID: 5E-PL-133 Lab Sample ID: 551101288-0016
Sample Description: ROOM 133/PLASTER, SMOOTH

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /White /Various	0.0%	100%	None Detected	

Client Sample ID: 5F-PL-133 Lab Sample ID: 551101288-0017
Sample Description: ROOM 133/PLASTER, SMOOTH

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /White /Various	0.0%	100%	None Detected	

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Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 6A-VFT-126

Sample Description: ROOM 126/12" VINYL FLOOR TILE, TAN W/ BLACK DOTS

Lab Sample ID: 551101288-0018

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Various /Beige	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 6B-VFT-126

Sample Description: ROOM 126/12" VINYL FLOOR TILE, TAN W/ BLACK DOTS

Lab Sample ID: 551101288-0019

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 6C-VFT-126

Sample Description: ROOM 126/12" VINYL FLOOR TILE, TAN W/ BLACK DOTS

Lab Sample ID: 551101288-0020

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 8A-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0021

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/06/2011	Gray /White	0.0%	100%	None Detected	

Client Sample ID: 8B-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0022

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /White	0.0%	100%	None Detected	

Client Sample ID: 8C-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0023

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /White	0.0%	100%	None Detected	

Client Sample ID: 8D-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0024

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /Blue	0.0%	100%	None Detected	

Client Sample ID: 8E-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0025

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /Blue	0.0%	100%	None Detected	

Client Sample ID: 8F-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0026

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /White	0.0%	100%	None Detected	

Client Sample ID: 8G-PL-121

Sample Description: ROOM 121/PARGING COAT ON CEILING

Lab Sample ID: 551101288-0027

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /White	0.0%	100%	None Detected	

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Proj: WHITE OAKS S.S NORTH

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method**Client Sample ID:** 9A-CP-120C**Sample Description:** ROOM 120C/CEMENT BOARD COUNTERTOP**Lab Sample ID:** 551101288-0028

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011				Not Submitted	

Client Sample ID: 10A-PL-120A**Sample Description:** ROOM 120A/PLASTER, TEXTURED, ON COLUMNS**Lab Sample ID:** 551101288-0029

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /White	0.0%	100%	None Detected	

Client Sample ID: 10B-PL-120A**Sample Description:** ROOM 120A/PLASTER, TEXTURED, ON COLUMNS**Lab Sample ID:** 551101288-0030

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /Tan	0.0%	100%	None Detected	

Client Sample ID: 10C-PL-117**Sample Description:** ROOM 117/PLASTER, TEXTURED, ON COLUMNS**Lab Sample ID:** 551101288-0031

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /Tan	0.0%	100%	None Detected	

Client Sample ID: 10D-PL-117**Sample Description:** ROOM 117/PLASTER, TEXTURED, ON COLUMNS**Lab Sample ID:** 551101288-0032

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /Tan /Various	0.0%	100%	None Detected	

Client Sample ID: 10E-PL-117**Sample Description:** ROOM 117/PLASTER, TEXTURED, ON COLUMNS**Lab Sample ID:** 551101288-0033

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Gray /Various	0.0%	100%	None Detected	

Client Sample ID: 11A-VFT-120A**Sample Description:** ROOM 120A/12" VINYL FLOOR TILE, WHITE W/ BLACK STREAKS**Lab Sample ID:** 551101288-0034

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Various /Cream	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Various /Cream	0.0%	100%	None Detected	

Client Sample ID: 11B-VFT-120A**Sample Description:** ROOM 120A/12" VINYL FLOOR TILE, WHITE W/ BLACK STREAKS**Lab Sample ID:** 551101288-0035

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Various /Cream	0.0%	100%	None Detected	

Client Sample ID: 11C-VFT-209**Sample Description:** ROOM 209/12" VINYL FLOOR TILE, WHITE W/ BLACK STREAKS**Lab Sample ID:** 551101288-0036

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Various /Cream	0.0%	100%	None Detected	



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Attn: Ada Nguyen

Decommissioning Consulting Services Ltd.

121 Granton Drive

Unit 11

Richmond Hill, ON L4B 3N4

Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 13A-VFT-103 **Lab Sample ID:** 551101288-0037
Sample Description: ROOM 103/12" VINYL FLOOR TILE, WHITE W/ RED-BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /Various	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Brown /Gray /Various	7.1%	92.9%	None Detected	

Client Sample ID: 13B-VFT-103 **Lab Sample ID:** 551101288-0038
Sample Description: ROOM 103/12" VINYL FLOOR TILE, WHITE W/ RED-BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /Various	0.0%	100%	None Detected	

Client Sample ID: 13C-VFT-103 **Lab Sample ID:** 551101288-0039
Sample Description: ROOM 103/12" VINYL FLOOR TILE, WHITE W/ RED-BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/10/2011	Brown /Gray /Various	0.0%	100%	None Detected	

Client Sample ID: 14A-VSF-118A **Lab Sample ID:** 551101288-0040
Sample Description: ROOM 118A/VINYL SHEET FLOORING, BROWN W/ JUTE BACKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Various /Beige	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Brown /Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 14B-VSF-118A **Lab Sample ID:** 551101288-0041
Sample Description: ROOM 118A/VINYL SHEET FLOORING, BROWN W/ JUTE BACKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 14C-VSF-118A **Lab Sample ID:** 551101288-0042
Sample Description: ROOM 118A/VINYL SHEET FLOORING, BROWN W/ JUTE BACKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 15A-SCT-103 **Lab Sample ID:** 551101288-0043
Sample Description: ROOM 103/2'X4' SUSPENDED CEILING TILE, WIDE FISSURES IN 2', GREY BACK

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	75%	25%	None Detected	

Client Sample ID: 15B-SCT-103 **Lab Sample ID:** 551101288-0044
Sample Description: ROOM 103/2'X4' SUSPENDED CEILING TILE, WIDE FISSURES IN 2', GREY BACK

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	75%	25%	None Detected	



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Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 15C-SCT-103						Lab Sample ID: 551101288-0045	
Sample Description: ROOM 103/2'X4' SUSPENDED CEILING TILE, WIDE FISSURES IN 2', GREY BACK							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	5/06/2011	Gray/White	75%	25%	None Detected		
Client Sample ID: 16A-OT-103						Lab Sample ID: 551101288-0046	
Sample Description: ROOM 103/WHITE FIBROUS MATERIAL INSIDE METAL CANISTER							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	5/06/2011	White	3%	62%	35% Chrysotile		
Client Sample ID: 18A-VFT-119						Lab Sample ID: 551101288-0047	
Sample Description: ROOM 119/12" VINYL FLOOR TILE, WHITE W/ GREY SPECKS							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	5/09/2011	Brown /Gray /Various	0.0%	100%	None Detected		
TEM Grav. Reduction	5/10/2011	Brown /Gray /Various	0.0%	100%	None Detected		
Client Sample ID: 18B-VFT-119						Lab Sample ID: 551101288-0048	
Sample Description: ROOM 119/12" VINYL FLOOR TILE, WHITE W/ GREY SPECKS							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	5/09/2011	Brown /Gray /Various	0.0%	100%	None Detected		
Client Sample ID: 18C-VFT-119						Lab Sample ID: 551101288-0049	
Sample Description: ROOM 119/12" VINYL FLOOR TILE, WHITE W/ GREY SPECKS							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	5/09/2011	Brown /Gray /Various	0.0%	100%	None Detected		
Client Sample ID: 19A-VFT-115A						Lab Sample ID: 551101288-0050	
Sample Description: ROOM 115A/12" VINYL FLOOR TILE, WHITE W/ WHITE & GREY SPECKS							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	5/09/2011	Gray /Beige	0.0%	100%	None Detected		
TEM Grav. Reduction	5/10/2011	Gray /Beige	0.0%	100%	None Detected		
Client Sample ID: 19B-VFT-115A						Lab Sample ID: 551101288-0051	
Sample Description: ROOM 115A/12" VINYL FLOOR TILE, WHITE W/ WHITE & GREY SPECKS							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	5/09/2011	Brown /Gray /Beige	0.0%	100%	None Detected		
Client Sample ID: 19C-VFT-115A						Lab Sample ID: 551101288-0052	
Sample Description: ROOM 115A/12" VINYL FLOOR TILE, WHITE W/ WHITE & GREY SPECKS							
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM Grav. Reduction	5/09/2011	Brown /Gray /Various	0.0%	100%	None Detected		



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Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 20A-VFT-104 Lab Sample ID: 551101288-0053
Sample Description: ROOM 104/12" VINYL FLOOR TILE, BEIGE W/ BEIGE SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /Tan /Various	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Gray /Tan /Various	0.0%	100%	None Detected	

Client Sample ID: 20B-VFT-104 Lab Sample ID: 551101288-0054
Sample Description: ROOM 104/12" VINYL FLOOR TILE, BEIGE W/ BEIGE SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /Tan /Various	0.0%	100%	None Detected	

Client Sample ID: 20C-VFT-104 Lab Sample ID: 551101288-0055
Sample Description: ROOM 104/12" VINYL FLOOR TILE, BEIGE W/ BEIGE SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Gray /Tan /Various	0.0%	100%	None Detected	

Client Sample ID: 21A-SCT-115 Lab Sample ID: 551101288-0056
Sample Description: ROOM 115/2'X4' SUSPENDED CEILING TILE, CHICKEN FEET PATTERN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	75%	25%	None Detected	

Client Sample ID: 21B-SCT-115 Lab Sample ID: 551101288-0057
Sample Description: ROOM 115/2'X4' SUSPENDED CEILING TILE, CHICKEN FEET PATTERN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	80%	20%	None Detected	

Client Sample ID: 21C-SCT-115 Lab Sample ID: 551101288-0058
Sample Description: ROOM 115/2'X4' SUSPENDED CEILING TILE, CHICKEN FEET PATTERN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	80%	20%	None Detected	

Client Sample ID: 22A-OT-102 Lab Sample ID: 551101288-0059
Sample Description: ROOM 102/BRICK-LIKE MATERIAL ON WELDING TABLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Various /Orange	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Various /Orange	0.0%	100%	None Detected	

Client Sample ID: 23A-SCT-114 Lab Sample ID: 551101288-0060
Sample Description: ROOM 114/2'X4' SUSPENDED CEILING TILE, RANDOM FISSURES, FLORAL PATTERN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	85%	15%	None Detected	

Client Sample ID: 23B-SCT-114 Lab Sample ID: 551101288-0061
Sample Description: ROOM 114/2'X4' SUSPENDED CEILING TILE, RANDOM FISSURES, FLORAL PATTERN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	80%	20%	None Detected	



EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8

Phone: 289-997-4602 Fax: (289) 997-4607 Web: <http://www.emsl.com> Email: torontolab@emsl.com

Attn: Ada Nguyen

Decommissioning Consulting Services Ltd.

121 Granton Drive

Unit 11

Richmond Hill, ON L4B 3N4

Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 23C-SCT-114 Lab Sample ID: 551101288-0062
Sample Description: ROOM 114/2'X4' SUSPENDED CEILING TILE, RANDON FISSURES, FLORAL PATTERN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray/White	75%	25%	None Detected	

Client Sample ID: 24A-FP-123 Lab Sample ID: 551101288-0063
Sample Description: ROOM 123/FIREPROOFING, GREEN FIBROUS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	35%	65%	None Detected	

Client Sample ID: 25A-VFT-128 Lab Sample ID: 551101288-0064
Sample Description: ROOM 128/12" VINYL FLOOR TILE, TAN W/ SMALL LIGHT BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Various /Beige	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Brown /Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 25B-VFT-128 Lab Sample ID: 551101288-0065
Sample Description: ROOM 128/12" VINYL FLOOR TILE, TAN W/ SMALL LIGHT BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 25C-VFT-128 Lab Sample ID: 551101288-0066
Sample Description: ROOM 128/12" VINYL FLOOR TILE, TAN W/ SMALL LIGHT BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Various /Beige	0.0%	100%	None Detected	

Client Sample ID: 26A-FP-114 Lab Sample ID: 551101288-0067
Sample Description: ROOM 114/FIREPROOFING, GREY CEMENT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	0%	70%	30% Chrysotile	

Client Sample ID: 26B-FP-114 Lab Sample ID: 551101288-0068
Sample Description: ROOM 114/FIREPROOFING, GREY CEMENT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011				Stop Positive (Not Analyzed)	

Client Sample ID: 26C-FP-136 Lab Sample ID: 551101288-0069
Sample Description: ROOM 136/FIREPROOFING, GREY CEMENT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011				Stop Positive (Not Analyzed)	

Client Sample ID: 27A-VFT-140 Lab Sample ID: 551101288-0070
Sample Description: ROOM 140/12" VINYL FLOOR TILE, WHITE W/ BROWN SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /White	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Brown /Gray /White	0.0%	100%	None Detected	

**EMSL Canada Inc.**

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8

Phone: 289-997-4602 Fax: (289) 997-4607 Web: <http://www.emsl.com> Email: torontolab@emsl.com

Attn: Ada Nguyen

Decommissioning Consulting Services Ltd.

121 Granton Drive

Unit 11

Richmond Hill, ON L4B 3N4

Proj: WHITE OAKS S.S NORTH

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

Client Sample ID: 27B-VFT-140

Lab Sample ID: 551101288-0071

Sample Description: ROOM 140/12" VINYL FLOOR TILE, WHITE W/ BROWN SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /White	0.0%	100%	None Detected	

Client Sample ID: 27C-VFT-140

Lab Sample ID: 551101288-0072

Sample Description: ROOM 140/12" VINYL FLOOR TILE, WHITE W/ BROWN SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /White	0.0%	100%	None Detected	

Client Sample ID: 28A-VFT-214

Lab Sample ID: 551101288-0073

Sample Description: ROOM 214/12" VINYL FLOOR TILE, WHITE W/ BLACK SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	5/09/2011	Brown /Gray /Tan	0.0%	100%	None Detected	
TEM Grav. Reduction	5/10/2011	Brown /Gray /Tan	0.0%	100%	None Detected	

Client Sample ID: 29A-FP-214

Lab Sample ID: 551101288-0074

Sample Description: ROOM 214/FIREPROOFING, BLUE FIBROUS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/06/2011	Gray	70%	30%	None Detected	

Initial report from: 05/10/2011 10:02:16

Analyst(s)

Kevin Pang	PLM Grav. Reduction	(6)
Lisa Podzyhun	PLM	(3)
	PLM Grav. Reduction	(36)
Merriam Haffar	PLM	(10)
	PLM Grav. Reduction	(10)
	TEM Grav. Reduction	(11)

Any questions please contact Kevin Pang.

Kevin Pang
or other Approved Signatory

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**EMSL Canada Inc.**

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8

Phone: 289-997-4602

Fax: (289) 997-4607

Web: <http://www.emsl.com>Email: torontolab@emsl.com

Attn: Ada Nguyen
Decommissioning Consulting Services Ltd.
121 Granton Drive
Unit 11
Richmond Hill, ON L4B 3N4
Fax: (905) 882-8962 **Phone:** (905) 882-5984
Proj: WHITE OAKS S.S NORTH

EMSL Order: 551101419
Customer ID: 55DCSL97
Collected:
Received: 5/13/2011

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116**Method****Client Sample ID:** 9A-CP-120C**Sample Description:** CEMENT COUNTERTOP**Lab Sample ID:** 551101419-0001

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	5/13/2011	Gray/White/Vari ous	0%	70%	30% Chrysotile	

Initial report from: 05/13/2011 17:54:20

Analyst(s)

Kevin Pang PLM (1)


Kevin Pang
or other Approved Signatory

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EMSL Canada Inc.

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

EMSL Canada Order 551401819
Customer ID: 55DCSL97
Customer PO: 702039
Project ID:

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

Phone: (905) 882-5984
Fax: (905) 882-8962
Collected:
Received: 3/17/2014
Analyzed: 3/21/2014

Proj: WHITE OAKS/702039

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

Client Sample ID: 1-A

Lab Sample ID: 551401819-0001

Sample Description: ROOM 100/LIGHTWEIGHT CONCRETE ("SIPOREX") ROOF DECKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/21/2014	Gray /White	0.0%	100%	None Detected	
TEM Grav. Reduction	3/21/2014	Gray /White	0.0%	100%	None Detected	

Client Sample ID: 1-B

Lab Sample ID: 551401819-0002

Sample Description: ROOM 100/LIGHTWEIGHT CONCRETE ("SIPOREX") ROOF DECKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/21/2014	White	0%	100%	None Detected	

Client Sample ID: 1-C

Lab Sample ID: 551401819-0003

Sample Description: ROOM 121/LIGHTWEIGHT CONCRETE ("SIPOREX") ROOF DECKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/21/2014	White	0%	100%	None Detected	

Client Sample ID: 2-A

Lab Sample ID: 551401819-0004

Sample Description: CORRIDOR C123/DUCT SEAL ON DUCTING-RED COLOURED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	3/21/2014	Brown /Yellow	0.0%	100%	<0.25% Chrysotile	
TEM Grav. Reduction	3/21/2014	Brown /Yellow	0.0%	100%	<0.25% Chrysotile	

Client Sample ID: 2-B

Lab Sample ID: 551401819-0005

Sample Description: CORRIDOR C123/DUCT SEAL ON DUCTING-RED COLOURED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/21/2014	Red	0%	99%	1% Chrysotile	

Client Sample ID: 2-C

Lab Sample ID: 551401819-0006

Sample Description: CORRIDOR C123/DUCT SEAL ON DUCTING-RED COLOURED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/21/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 3

Lab Sample ID: 551401819-0007

Sample Description: CORRIDOR C129 EAST/NEW FIREPROOFING ON BEAMS-GREY COLOURED

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	3/21/2014	Gray/White	85%	15%	None Detected	



EMSL Canada Inc.

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

EMSL Canada Order 551401819
Customer ID: 55DCSL97
Customer PO: 702039
Project ID:

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

Analyst(s)

Kevin Pang	PLM	(4)
	PLM Grav. Reduction	(2)
Matthew Davis	TEM Grav. Reduction	(2)

Kevin Pang
or other Approved Signatory

Any questions please contact Kevin Pang.

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Report amended: 04/11/2014 21:43:15 Replaces initial report from: 03/21/2014 17:01:00 Reason Code: Client-Change to Sample ID



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: 289-997-4602 / (289) 997-4607
<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order 551703844
Customer ID: 55DCSL97
Customer PO: 702170-118
Project ID:

Attn: Jean Daigle
ARCADIS Canada Inc.
121 Granton Drive
Unit 12
Richmond Hill, ON L4B 3N4

Phone: (905) 882-5984
Fax: (905) 882-8962
Collected:
Received: 4/11/2017
Analyzed: 4/15/2017

Proj: WON/702170-118

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

Client Sample ID: 1-A **Lab Sample ID:** 551703844-0001

Sample Description: Room 138/Vinyl baseboard- brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	4/15/2017	Brown	0.0%	100%	None Detected	
TEM Grav. Reduction	4/15/2017	Brown	0.0%	100%	None Detected	

Client Sample ID: 1-B **Lab Sample ID:** 551703844-0002

Sample Description: Room 137/Vinyl baseboard- brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 1-C **Lab Sample ID:** 551703844-0003

Sample Description: Room 138C/Vinyl baseboard- brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 2-A **Lab Sample ID:** 551703844-0004

Sample Description: Room 138/Mastic on vinyl baseboard- dark brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 2-B **Lab Sample ID:** 551703844-0005

Sample Description: Room 137/Mastic on vinyl baseboard- dark brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 2-C **Lab Sample ID:** 551703844-0006

Sample Description: Room 138C/Mastic on vinyl baseboard- dark brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 3-A **Lab Sample ID:** 551703844-0007

Sample Description: Room 138/Mastic on vinyl floor tile- black colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Black	0%	100%	None Detected	



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: 289-997-4602 / (289) 997-4607
<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order 551703844
Customer ID: 55DCSL97
Customer PO: 702170-118
Project ID:

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

Client Sample ID: 3-B **Lab Sample ID:** 551703844-0008

Sample Description: Room 137/Mastic on vinyl floor tile- black colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Black	0%	100%	None Detected	

Client Sample ID: 3-C **Lab Sample ID:** 551703844-0009

Sample Description: Room 138C/Mastic on vinyl floor tile- black colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	White/Black	0%	100%	<1% Chrysotile	Result includes a small amount of inseparable attached material

Client Sample ID: 4-A **Lab Sample ID:** 551703844-0010

Sample Description: Room 138/Floor levelling compound- white colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	93%	7% Chrysotile	

Client Sample ID: 4-B **Lab Sample ID:** 551703844-0011

Sample Description: Room 137/Floor levelling compound- white colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 4-C **Lab Sample ID:** 551703844-0012

Sample Description: Room 138C/Floor levelling compound- white colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 5-A **Lab Sample ID:** 551703844-0013

Sample Description: Room 137/Mortar in concrete block- grey colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	100%	None Detected	

Client Sample ID: 5-B **Lab Sample ID:** 551703844-0014

Sample Description: Room 138C/Mortar in concrete block- grey colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	100%	None Detected	

Client Sample ID: 5-C **Lab Sample ID:** 551703844-0015

Sample Description: Room 129/Mortar in concrete block- grey colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	100%	None Detected	



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: 289-997-4602 / (289) 997-4607
<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order 551703844
Customer ID: 55DCSL97
Customer PO: 702170-118
Project ID:

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

Client Sample ID: 6-A **Lab Sample ID:** 551703844-0016

Sample Description: Room 129/Mortar in brick- dark grey

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	100%	None Detected	

Client Sample ID: 6-B **Lab Sample ID:** 551703844-0017

Sample Description: Room 129/Mortar in brick- dark grey

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	100%	None Detected	

Client Sample ID: 6-C **Lab Sample ID:** 551703844-0018

Sample Description: Room 129/Mortar in brick- dark grey

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Gray	0%	100%	None Detected	

Client Sample ID: 7-A **Lab Sample ID:** 551703844-0019

Sample Description: Room 138/Caulking on door frame- brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 7-B **Lab Sample ID:** 551703844-0020

Sample Description: Room 137/Caulking on door frame- brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 7-C **Lab Sample ID:** 551703844-0021

Sample Description: Room 138C/Caulking on door frame- brown colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	Brown	0%	100%	None Detected	

Client Sample ID: 8-A **Lab Sample ID:** 551703844-0022

Sample Description: Room 138/Paint on concrete block wall- cream colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	White	0%	100%	None Detected	

Client Sample ID: 8-B **Lab Sample ID:** 551703844-0023

Sample Description: Room 137/Paint on concrete block wall- cream colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	White	0%	100%	None Detected	



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: 289-997-4602 / (289) 997-4607
<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order 551703844
Customer ID: 55DCSL97
Customer PO: 702170-118
Project ID:

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

Client Sample ID: 8-C

Lab Sample ID: 551703844-0024

Sample Description: Room 139D/Paint on concrete block wall- cream colour

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	4/15/2017	White	0%	100%	None Detected	Result includes a small amount of inseparable attached material

Analyst(s):

John Biesiadecki PLM (14)
PLM Grav. Reduction (1)
Natalie D'Amico PLM (7)
TEM Grav. Reduction (1)

Reviewed and approved by:

Matthew Davis
or Other Approved Signatory

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Initial report from: 04/15/2017 15:05:03

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>.

Arcadis Canada Inc.

121 Granton Drive, Suite 12, Richmond Hill, Ontario L4B 3N4

Tel 905 882 5984

Fax 905 882 8962

www.arcadis.com

